MODY UNIVERSITY OF SCIENCE AND TECHNOLOGY
LAKSHMANGARH • RAJASTHAN
A Leading Women's University

School of Engineering and Technology (SET)
Lakshmangarh (Sikar), Rajasthan 332 311, India
Ph. No.: (1573) 225001-12 • Fax: (01573) 225042
email: dean.set@modyuniversity.ac.in • www.modyuniversity.ac.in

Course Outcome

Course Name: Applied Mechanics
Course Code: ME 19.101
Credit Hours: 4
Semester, Year: Spring, I
Branch: B.Tech CSE
Prerequisite: Elementary Physics and Mathematics

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
ME 19.101.1	Understand different laws of mechanics	Understand
ME 19.101.2	Develop the confidence for self-learning in analyzing resolution and composition of force systems and equilibrium conditions	Analyze
ME 19.101.3	Determine the centroid, center of gravity and Moment of Inertia of areas, bodies and composite sections	Apply
ME 19.101.4	Understand the concepts of friction and to apply in real life problems.	Apply
ME 19.101.5	Understand the concepts of internal forces and solve problems related to it.	Apply
ME 19.101.6	Apply kinematics and kinetics equations for determine displacement, velocity and acceleration.	Apply

Vikrant Sharma

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Course Outcome

Course Name: Mechanical Workshop
Course Code: ME 19.112
Credit Hours:1
Semester, Year: Spring, I
Branch:B.Tech ECE+EE+ME+BME
Prerequisite: NIL

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
ME 19.112.1	identify the basics of tools and equipment's and familiarize with the production of simple model in fitting as well as safety precautions in fitting shop	Apply
ME 19.112.2	identify the basics of tools and equipment's and familiarize with the production of simple model in carpentry as well as safety precautions in carpentry shop	Apply
ME 19.112.3	identify the basics of tools and equipment's and familiarize with the production of simple model in sheet metal as well as safety precautions in sheet metal shop	Apply
ME 19.112.4	identify the basics of tools and equipment's and familiarize with the production of simple modelonlathe machine as well as safety precautions in machine shop	Apply

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Course Outcome

Course Name: Programming Language
Course Code: CS19.101
Credit Hours: 4
Semester, Year:II,I
Branch: ECE+EE+ME+BME
Prerequisite:NIL
Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
CS19.101.1	Understand the principle of programming language and programming paradigms.	Understand
CS19.101.2	Understand C language, variable constant, operators, C program structure	Understand
CS19.101.3	Writing, Compiling and running a C program, Use conditions and loop.	Create
CS19.101.4	Writing C functions, recursions, arrays,	Create
CS19.101.5	Understanding pointers and its relation with arrays and command line arguments	Analyze
CS19.101.6	Differentiate between structure and union and use structure in real life problem Use file to store data permanently and retrieve data from file. Understand various file operations	Apply

Faculty Name 5/11/2020

Siddhanta Kumar Singh

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Course Outcome

Course Name: Programming Language Lab
Course Code: CS19.151
Credit Hours: 2
Semester, Year:I,I
Branch: ECE+EE+ME+BME
Prerequisite:NIL
Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
CS19.151.1	OOPs basic program	Understand
CS19.151.2	Variable, constant, operators based basic programs	Analyze
CS19.151.3	Writing branching and loop based program.	Create
CS19.151.4	Writing C functions, recursions, arrays,	Create
CS19.151.5	Pointers and its relation with function, arrays and command line arguments	Create
CS19.151.6	Structure and union based programs in real life problems. Use file to store data permanently and retrieve data from file in various applications.	Apply

Faculty Name

Siddhanta Kumar Singh

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School of Engineering and Technology

Course Outcomes

Course Name: Engineering Chemistry

Course Code: CY 19.101

Year: B. Tech. I year 2019-20

Semester: II

Faculty Name: Dr. Amlan Kumar Das

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CY 19.101.1	Types of polymerization, Mechanism of Addition polymerization. Classify the polymers as thermoplastic and thermosetting resins. Classify the Lubricants.	Analyze
CY 19.101.2	Numerical problems based on water treatment (Lime-Soda process). Numerical problems on degree of hardness and on calorific values HCV and LCV	Apply
CY 19.101.3	Remember the principle involved in hardness estimation (EDTA methods). Mechanism of corrosion, types of corrosion, Corrosion control Preparation, Properties and Uses of Polyamides, Bakelite, Polyesters, Rubber, Vulcanization of Rubber,	Remember
CY 19.101.4	Derive Nernst equation of electrode potential and formulate electrode potential by electrochemical Series.	Create
CY 19.101.5	Determination of calorific value by Bomb calorimeter. Refining and cracking of petroleum, knocking. Octane Number and Cetane Number. Superconductors, organic electronic materials, Fullerenes Nano materials and their industrial applications	Understand
CY 19.101.6	Compare all methods of hardness determination Lime-Soda, Permutit, Ion Exchange and theories of corrosion, Comparison of solid, liquid & solid fuels	Evaluate

Dr. Amlan Kumar Das

AKD

Signature of the faculty

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Course Outcome

Course Name: Applied Mechanics
Course Code: ME 19.101
Credit Hours: 4
Semester, Year: Autumn, I
Branch: B.Tech ECE, ME, EE, BME,NST
Prerequisite: Elementary Physics and Mathematics

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
ME 19.101.1	Understand different laws of mechanics	Understand
ME 19.101.2	Develop the confidence for self-learning in analyzing resolution and composition of force systems and equilibrium conditions	Analyze
ME 19.101.3	Determine the centroid, center of gravity and Moment of Inertia of areas, bodies and composite sections	Apply
ME 19.101.4	Understand the concepts of friction and to apply in real life problems.	Apply
ME 19.101.5	Understand the concepts of internal forces and solve problems related to it.	Apply
ME 19.101.6	Apply kinematics and kinetics equations for determine displacement, velocity and acceleration.	Apply

Vikrant Sharma

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Course Outcome

Course Name: Mechanical Workshop
Course Code: ME 19.112
Credit Hours:1
Semester, Year: Autumn, I
Branch:B.Tech CSE
Prerequisite: NIL

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
ME 19.112.1	identify the basics of tools and equipment's and familiarize with the production of simple model in fitting as well as safety precautions in fitting shop	Apply
ME 19.112.2	identify the basics of tools and equipment's and familiarize with the production of simple model in carpentry as well as safety precautions in carpentry shop	Apply
ME 19.112.3	identify the basics of tools and equipment's and familiarize with the production of simple model in sheet metal as well as safety precautions in sheet metal shop	Apply
ME 19.112.4	identify the basics of tools and equipment's and familiarize with the production of simple modelonlathe machine as well as safety precautions in machine shop	Apply

Vikrant Sharma

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Course Outcome

Course Name: Programming Language
Course Code: CS19.101
Credit Hours: 4
Semester, Year:I,I
Branch: CSE
Prerequisite:NIL
Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
CS19.101.1	Understand the principle of programming language and programming paradigms.	Understand
CS19.101.2	Understand C language, variable constant, operators, C program structure	Understand
CS19.101.3	Writing, Compiling and running a C program, Use conditions and loop.	Create
CS19.101.4	Writing C functions, recursions, arrays,	Create
CS19.101.5	Understanding pointers and its relation with arrays and command line arguments	Analyze
CS19.101.6	Differentiate between structure and union and use structure in real life problem Use file to store data permanently and retrieve data from file. Understand various file operations	Apply

Faculty Name

Siddhanta Kumar Singh

10/11/2020

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Course Outcome

Course Name: Programming Language Lab
Course Code: CS19.151
Credit Hours: 2
Semester, Year:I,I
Branch: CSE
Prerequisite:NIL
Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
CS19.151.1	OOPs basic program	Understand
CS19.151.2	Variable, constant, operators based basic programs	Analyze
CS19.151.3	Writing branching and loop based program.	Create
CS19.151.4	Writing C functions, recursions, arrays,	Create
CS19.151.5	Pointers and its relation with function, arrays and command line arguments	Create
CS19.151.6	Structure and union based programs in real life problems. Use file to store data permanently and retrieve data from file in various applications.	Apply

Faculty Name

Siddhanta Kumar Singh

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Course Outcomes

Course Name: Engineering Chemistry

Course Code: CY 19.101

Year: B. Tech. I year 2019-20

Semester: I

Faculty Name: Dr. Amlan Kumar Das

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CY 19.101.1	Types of polymerization, Mechanism of Addition polymerization. Classify the polymers as thermoplastic and thermosetting resins. Classify the Lubricants.	Analyze
CY 19.101.2	Numerical problems based on water treatment (Lime-Soda process). Numerical problems on degree of hardness and on calorific values HCV and LCV	Apply
CY 19.101.3	Remember the principle involved in hardness estimation (EDTA methods). Mechanism of corrosion, types of corrosion, Corrosion control Preparation, Properties and Uses of Polyamides, Bakelite, Polyesters, Rubber, Vulcanization of Rubber,	Remember
CY 19.101.4	Derive Nernst equation of electrode potential and formulate electrode potential by electrochemical Series.	Create
CY 19.101.5	Determination of calorific value by Bomb calorimeter. Refining and cracking of petroleum, knocking. Octane Number and Cetane Number. Superconductors, organic electronic materials, Fullerenes Nano materials and their industrial applications	Understand
CY 19.101.6	Compare all methods of hardness determination Lime-Soda, Permutit, Ion Exchange and theories of corrosion, Comparison of solid, liquid & solid fuels	Evaluate

Dr. Amlan Kumar Das

AKD.

Signature of the faculty

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Course Outcome

Course Name: Logic in Computer Science
Course Code: CS14.305
Credit Hours: 3
Semester, Year: Autumn, V,III
Branch: CSE
Prerequisite: Discrete Mathematics

Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
CS14.305.1	Understand concepts of Logic in Computer Science; Identify the scope for fuzzy logic.	Understand
CS14.305.2	Applicability of propositional and first-order logic ; Implementing logic in specifying properties.	Applying
CS14.305.3	Develop proof by induction ; design binary decision diagrams.	Analyze

10/8/2017

Dr. Sunil Kumar Jangir

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Course Outcome

Course Name: Microprocessor and Assembly Language Programming
Course Code: CS 14.309
Credit Hours: 3 (3-0-0-3)
Semester, Year: V (Spring), III
Branch: B. Tech. (CSE)
Prerequisite: CS 14.207 (Computer Information System)

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	Layer
CS 14.309.1	Remember the basic concepts of microprocessor architecture, assembly language programming, interfacing and advanced processors.	Remembering
CS 14.309.2	Understand the architecture, programming and interfacing of microprocessor 8085.	Understand
CS 14.309.3	Apply different mechanisms and logics to implement chip selection and interfacing memory and IO devices.	Applying
CS 14.309.4	Analyze the effectiveness of assembly language programs and interfacing circuits.	Analyze
CS 14.309.5	Evaluate the effectiveness of various addressing modes and algorithms in programming.	Evaluating
CS 14.309.6	Logically creates various methods to program and interface using microprocessor 8085.	Creating

Dr. Vikas Raina 17/08/2019

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Course Outcome

Course Name: Comprehensive II

Course Code: CS 14.374
Credit Hours: 3
Semester, Year: 3rD, 6TH
Branch: B.Tech
Prerequisite:

Module wise Course Outcome (CO)

Module	Course Outcome Number	Course Outcome	Bloom Taxonomy
		At the end of the course, Student will be able to:	
Unit 1	CS 14.374.1	To understand the Design and Analysis of Algorithm.	Understand
Unit 2	CS 14.374.2	Study the OS and its concepts and solves the problems.	Analyze
Unit 3	CS 14.374.3	Apply the logics in computer and solved the solved the problems based on WFF.	Analyze
Unit 4	CS 14.374.4	Understand the microprocessor and its architecture.	Understand
Unit 5	CS 14.374.5	Understand and solved the problems based on automata	create
Unit 6	CS 14.374.6	Understand the concepts of software engineering in the process of software development	Understand
Unit 7	CS 14.374.7	Understand the basic of computer networks and application layer protocols.	Understand

10/8/19

Faculty Name: **Rajesh Yadav**

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Course Outcome

Course Name: Soft Computing
Credit Hours: 3
Semester, Year: VII, 4th year
Branch: CSE
Prerequisite: CS 14.305(Logic in Computer Science)

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
CS 14.401.1	Identify and describe soft computing techniques and their roles in building intelligent machines	Remember
CS 14.401.2	Apply neural networks to pattern classification and regression problems	Create
CS 14.401.3	Apply neural networks to pattern classification and regression problems	Analyze
CS 14.401.4	Apply fuzzy logic and reasoning to handle uncertainty and solve engineering problems	Apply
CS 14.401.5	Apply genetic algorithms to combinatorial optimization problems and Evaluate and compare solutions by various soft computing approaches for a given problem	Evaluate

Faculty Name: Mrs. Aditi Kajala 10/08/2019

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Course Outcome

Course Name: Soft Computing Laboratory
Course Code: CS 14.451

Credit Hours: 1
Semester, Year: VII, 4th year
Branch: CSE
Prerequisite: CS14.111(Programming Language Laboratory)

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
CS 14.451.1	Implement soft computing techniques for different problems	Create
CS 14.451.2	Develop soft computing models to handle non deterministic problems	Apply
CS 14.451.3	Analyze and synthesize the performance of developed solution with relevant parameters.	Analyze

Faculty Name: Mrs. Aditi Kajala 9/08/2019

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Course Outcome

Course Name: Industrial Training Seminar

Course Code: CS 14.473
Credit Hours: 2
Semester, Year: Autumn, 4th
Branch: B.Tech-CSE
Prerequisite:

Module wise Course Outcome (CO)

Module	Course Outcome Number	Course Outcome	Bloom Taxonomy
		Students should work in the industry/laboratories as trainees so that they are able to acquire different learning out comes to demonstrate following course outcomes:	
	CS 14.473	Students should be able to demonstrate these skills on the type of metallurgical process or parameters affecting, the following list is suggestive only, some more skills may be acquired by student depending upon the opportunities they get and in some cases some of the following skills may not be applicable on which they have undergone training	Apply

10/8/19

Faculty Name: Rajesh Yadav

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Course Outcome

Course Name: Project

Course Code: CS 18.391
Credit Hours: 2
Semester, Year:Autumn, III
Branch:B.Tech-CSE
Prerequisite:

Module wise Course Outcome (CO)

Module	Course Outcome Number	Course Outcome	Bloom Taxonomy
		Students should work in the industry/laboratories as trainees so that they are able to acquire different learning out comes to demonstrate following course outcomes:	
	CS 14.473	Students should be able to demonstrate these skills on the type of metallurgical process or parameters affecting, the following list is suggestive only, some more skills may be acquired by student depending upon the opportunities they get and in some cases some of the following skills may not be applicable on which they have undergone training	Apply

Faculty Name: Dr S S verma 12/8/2019

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Course Outcome

Course Name: **Advanced Artificial Intelligence**
Course Code: **CS 18.407**
Credit Hours: 3
Semester, Year: VII, 4th year
Branch: CSE
Prerequisite: English Proficiency

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
CS 18.407.1	Chatbot fundamentals, IBM Watson conversation service. Exercise on Classifying images with Watson Visual Recognition.	Create
CS 18.407.2	IBM Watson, Evolution from DeepQA to Watson services on IBM Cloud, Build with Watson, Exploring Watson services with Watson API Explorer.	Apply
CS 18.407.3	Natural Language Processing, Pipeline and concepts, NLP and IBM Watson, Exercises on Ingest, Convert.	Analyze
CS 18.407.4	Artificial Intelligence, Machine Learning, Natural Language Processing, Computer vision, Cognitive Computing	Understand

Faculty Name: Dr S S Verma

12/8/2019

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Course Outcome

Course Name: Database Management System
Course Code: CS 14.204
Credit Hours: 40
Semester, Year: III, II
Branch: CSE
Prerequisite: CIS, DS

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
Course code.1	Analyze database models & entity relationship models. Understand architecture for database development.	Understanding
Course code.2	Design E-R diagram	Analyzing
Course code.3	Use Structured Query Language (SQL) with complex queries	Applying
Course code.4	Design and normalize the relations for any organization.	Analyzing
Course code.5	Understand transaction processing control.	Understanding
Course code 6	Implementation of Query in Database design	Create

12/8/19

Faculty Name : Manmohan Sharma

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Course Outcome

Course Name: Database Management System Lab
Course Code: CS 14.224
Credit Hours: 2
Semester, Year: III, II
Branch: CSE
Prerequisite: CIS, DS

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
Course code.1	Analyze database , Tables and Structure in Oracle DB	Understanding
Course code.2	Analyse and Execute sql queries related to creation and manipulation of tables.	Analyzing
Course code.3	Learn and apply complex sql queries used for data manipulation.	Applying
Course code.4	Design the concepts of multiple tables and execute queries based on them.	Analyzing
Course code.5	Understand the concept of triggers in database.	Understanding
Course code 6	Create triggers based on certain conditions and apply them	Create

12/8/19

Faculty Name : Manmohan Sharma

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Course Outcome

Course Name: Design and Analysis of Algorithms
Course Code: CS14.301
Credit Hours: 4
Semester, Year: Autumn, 3
Branch: CSE
Prerequisite: Data Structures

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
CS14.301.1	Understand Time and space Complexity, Recurrence Equations	Remember
CS14.301.2	Understand Searching & Sorting Algorithms.	Understand
CS14.301.3	Apply different Algorithm Design approaches	Apply
CS14.301.4	Solve problems pertaining to graphs	Apply
CS14.301.5	Classify the different class of problems-P, NP,NP-hard & NP-complete	Apply
CS14.301.6	Analyze any new problem	Apply

11/8/2019

Faculty Name: Dr. Suneet Gupta

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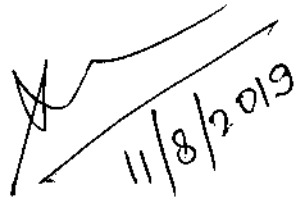
Course Outcome

Course Name: Design and Analysis of Algorithms Lab
Course Code: CS14.351
Credit Hours: 2
Semester, Year: Autumn, 3
Branch: CSE
Prerequisite: Data Structures

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
CS14.351.1	Understand Searching & Sorting Algorithms.	Understand
CS14.351.2	Implement Greedy design approach for Algorithms	Understand
CS14.351.3	Understand Dynamic Programming	Apply
CS14.351.4	Design Algorithms with Backtracking Approach	Apply
CS14.351.5	Design Algorithms with Branch & Bound Technique	Apply
CS14.351.6	Understand Graphs and implement its concepts in Designing Algorithms	Create



Faculty Name: Dr. Suneet Gupta

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Course Outcome

Course Name: Colloquium
Course Code: CS14.371
Credit Hours: 3
Semester, Year: Autumn, V, III
Branch: CSE
Prerequisite: NIL

Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
CS14.371.1	Communicate effectively to arrange of audience.	Understand
CS14.371.2	Recognize the need for continuous learning.	Applying
CS14.371.3	Recognize the social impact of engineering solutions.	Analyze

Dr. Praneet Saurabh

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Course Outcome

Course Name: Digital image Processing
Course Code: CS14.405
Credit Hours: 4
Semester, Year: Autumn, 4
Branch: CSE
Prerequisite: Mathematics

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
CS14.405.1	Understand the relevant aspects of digital image representation and their practical implications	Remember
CS14.405.2	Understand 2-D convolution, the 2-D DFT, and have the abitilty to design systems using these concepts	Understand
CS14.405.3	Evaluate the techniques for image enhancement and image restoration and Morphological	Apply
CS14.405.4	Interpret image segmentation and representation techniques	Apply
CS14.405.5	Apply image processing algorithms for practical object recognition applications.	Apply
CS14.405.6	Perform and demonstrate the compression and coding techniques used for image data	Apply

9/8/21

Faculty Name: Dr. Ajay Kumar Singh

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Course Outcome

Course Name: Digital image Processing Lab
Course Code: CS14.455
Credit Hours: 1
Semester, Year: Autumn, 4
Branch: CSE
Prerequisite: C Programming

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
CS14.405.1	Understand the relevant aspects of digital image representation and their practical implications	Remember
CS14.405.2	Understand 2-D convolution, the 2-D DFT, and have the abitilty to design systems using these concepts	Understand
CS14.405.3	Evaluate the techniques for image enhancement and image restoration and Morphological	Apply
CS14.405.4	Interpret image segmentation and representation techniques	Apply
CS14.405.5	Apply image processing algorithms for practical object recognition applications.	Apply
CS14.405.6	Perform and demonstrate the compression and coding techniques used for image data	Apply

Faculty Name: Dr. Ajay Kumar Singh

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Course Outcome

Course Name: Programming Language
Course Code: CS19.101
Credit Hours: 4
Semester, Year:I,I
Branch: CSE
Prerequisite:NIL
Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
CS19.101.1	Understand the principle of programming language and programming paradigms.	Understand
CS19.101.2	Understand C language, variable constant, operators, C program structure	Understand
CS19.101.3	Writing, Compiling and running a C program, Use conditions and loop.	Create
CS19.101.4	Writing C functions, recursions, arrays,	Create
CS19.101.5	Understanding pointers and its relation with arrays and command line arguments	Analyze
CS19.101.6	Differentiate between structure and union and use structure in real life problem Use file to store data permanently and retrieve data from file. Understand various file operations	Apply

Faculty Name

Siddhanta Kumar Singh 10/8/2019

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Course Outcome

Course Name: Programming Language Lab
Course Code: CS19.151
Credit Hours: 2
Semester, Year:I,I
Branch: CSE
Prerequisite:NIL
Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
CS19.151.1	OOPs basic program	Understand
CS19.151.2	Variable, constant, operators based basic programs	Analyze
CS19.151.3	Writing branching and loop based program.	Create
CS19.151.4	Writing C functions, recursions, arrays,	Create
CS19.151.5	Pointers and its relation with function, arrays and command line arguments	Create
CS19.151.6	Structure and union based programs in real life problems. Use file to store data permanently and retrieve data from file in various applications.	Apply

Faculty Name

Siddhanta Kumar Singh 10/8/19

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Course Outcome

Course Name: Data Structure
Course Code: CS 14.203
Credit Hours: 3
Semester, Year: Autumn, II
Branch: CSE
Prerequisite: CS-14.101(Programming Language)

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
CS 14.203.1	Understand the basic terminology of data structure	Understand
CS 14.203.2	Familiarize with array concepts and its application in various searching and sorting techniques	Apply
CS 14.203.3	Understand pointers and analyze linkedlist and its types	Analyze
CS 14.203.4	Learning stack and queue functionality and analyze their application	Analyze
CS 14.203.5	Understand the tree terminology, its traversal techniques and Graphical representation	Understand

10/8/19
Vishal Sharma

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Course Outcome

Course Name: S/W Foundation and Programming I (IBM)
Course Code: CS 19.103
Credit Hours: 3
Semester, Year: Autumn, I
Branch: CSE
Prerequisite: Nil

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
CS 19.103.1	Implement the concept of pointer	Apply
CS 19.103.2	Familiarize with various file handling functions	Apply
CS 19.103.3	Familiarize with array concepts and its application in various searching and sorting techniques	Analyze
CS 19.103.4	Learning stack, Linked list and queue functionality and analyze their application	Analyze
CS 19.103.5	Understand the tree terminology, its traversal techniques and Graphical representation	Understand

Vishal Sharma

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Course Outcome

Course Name: Minor Project

Course Code: CS 14.471
Credit Hours: 2
Semester, Year: Autumn, 4th
Branch: B.Tech-CSE
Prerequisite:

Module wise Course Outcome (CO)

Module	Course Outcome Number	Course Outcome	Bloom Taxonomy
	CS 14.471.1	At the end of course student's will be able to	
	CS 14.471.2	Discover potential research areas in the field of IT.	Understand
	CS 14.471.3	Conduct a survey of several available literature in the preferred field of study	Analyze
	CS 14.471.4	Compare and contrast the several existing solutions for research challenge	Analyze
	CS 14.471.5	Demonstrate an ability to work in teams and manage the conduct of the research study.	Apply
	CS 14.471.6	Formulate and propose a plan for creating a solution for the research plan identified	Apply
	CS 14.471.7	To report and present the findings of the study conducted in the preferred domain	Create

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Course Outcome

Course Name: Minor Project

Course Code: CS 14.471
Credit Hours: 2
Semester, Year: Autumn, 4th
Branch: B.Tech CSE-BDA
Prerequisite:

Module wise Course Outcome (CO)

Module	Course Outcome Number	Course Outcome	Bloom Taxonomy
	CS 14.471.1	At the end of course student's will be able to	
	CS 14.471.2	Discover potential research areas in the field of IT.	Understand
	CS 14.471.3	Conduct a survey of several available literature in the preferred field of study	Analyze
	CS 14.471.4	Compare and contrast the several existing solutions for research challenge	Analyze
	CS 14.471.5	Demonstrate an ability to work in teams and manage the conduct of the research study.	Apply
	CS 14.471.6	Formulate and propose a plan for creating a solution for the research plan identified	Apply
	CS 14.471.7	To report and present the findings of the study conducted in the preferred domain	Create

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School of Engineering and Technology
ASSIGNMENT–Autumn Semester (2019-20)

Year	:	**2019-2020**		Credits	:	**4**
Course Code	:	**CS19.101**		Course Title	:	**Programming Language**
Time Allowed	:			Max. Marks	:	**25**

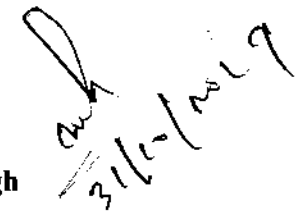
Q.No.		Max. Marks.	Course Outcome Number	Bloom Taxonomy
1.		5	CS19.101.1	**Understand**
2.		5	CS19.101.2	**Understand**
3.		5	CS19.101.3	**Create**
4.		5	CS19.101.3	**Create**
5		5	CS19.101.3	**Create**

CO Number	Total CO Marks	%CO
CS19.101.1	5	20
CS19.101.2	5	20
CS19.101.3	15	60
CS19.101.4	0	0
CS19.101.5	0	0
CS19.101.6	0	0
Total	**25**	**100**

Taxonomy	Total Taxonomy Marks	% Taxonomy
Remember	0	0
Understand	10	40
Apply	0	0
Analyze	0	0
Evaluate	0	0
Create	15	60
Total	**25**	**100**

Faculty Name

Siddhanta Kumar Singh



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School of Sciences

Question paper Analysis

Course Name:	Applied Mathematics	**Course Code:**	MA 14.201
Year:	II	**Semester:**	Autumn(19-20)
Examination	End Term Examination		
Faculty Name:	Prof. (Dr.) Jitendra Binwal		

Question No.	Maximum Marks	Course Outcome Number	Taxonomy Level
Q.1.(a)	2	MA14.201.2	Understand
Q.1.(b)	2	MA14.201.1	Remember
Q.1.(c)	2	MA14.201.1	Remember
Q.1.(d)	2	MA14.201.3	Apply
Q.1.(e)	2	MA14.201.2	Understand
Q.1.(f)	2	MA14.201.2	Understand
Q.1.(g)	2	MA14.201.5	Evaluate
Q.1.(h)	2	MA14.201.4	Analyse
Q.1.(i)	2	MA14.201.2	Understand
Q.1.(j)	2	MA14.201.3	Apply
Q.2.(a)	8	MA14.201.3	Apply
Q.2.(b)	8	MA14.201.5	Evaluate
Q.3.(a)	8	MA14.201.3	Apply
Q.3.(b)	8	MA14.201.4	Analyse
Q.4.(a)	8	MA14.201.5	Evaluate
Q.4.(b)	8	MA14.201.3	Apply
Q.5.(a)	8	MA14.201.3	Apply
Q.5.(b)	4	MA14.201.5	Evaluate
Q.5.(c)	4	MA14.201.5	Evaluate
Q.6.(a)	8	MA14.201.5	Evaluate
Q.6.(b)	8	MA14.201.4	Analyse
Q.7.(a)	8	MA14.201.4	Analyse
Q.7.(b)	8	MA14.201.5	Evaluate
Q.8.(a)	8	MA14.201.3	Apply
Q.8.(b)	4	MA14.201.3	Apply
Q.8.(c)	4	MA14.201.4	Analyse

CO	Total CO Marks	%CO
MA14.201.1	4	3.03
MA14.201.2	8	6.06
MA14.201.3	48	36.36
MA14.201.4	30	22.72
MA14.201.5	42	31.81
MA14.201.6	0	0
Total	**132**	**100**

Taxonomy	Total Taxonomy Marks	% Taxonomy
Remember	4	3.03
Understand	8	6.06
Apply	48	36.36
Analyse	30	22.72
Evaluate	42	31.81
Create	0	0
Total	**132**	**100**

Faculty Signature

Mody University of Science and Technology
School of Engineering and Technology
Mid Term Examination, Autumn Semester 2020-2021
B. Tech. (CSE), IV Year

Course Name: Data Science and Big Data Analytics **Max. Mark: 40**
Course Code: CS 14. 415 **Time: 90 Mins**
Total no. of Printed Pages: 1

Instruction to candidates:
1. Attempt any five out of Seven Questions

---

1. Discuss some of the applications of data science and analytics in various domains with suitable examples. Also differentiate between prescriptive analytics and predictive analytics with example. [4+4=8]

2. (i) What are the real challenges that a data scientist faces in the real world? Discuss.
(ii) "Now a days industries are heavily dependent on data and its analytics", with the help of a diagram explain life cycle of data science. [4+4=8]

3. What do you mean by EDA? Discuss its various phases and techniques. [8]

4. Is gender independent of education level? A random sample of 395 people were surveyed and each person was asked to report the highest education level they obtained. The data that resulted from the survey is summarized in the following table:

	High School	Bachelors	Masters	Ph.d.	Total
Female	60	54	46	41	201
Male	40	44	53	57	194
Total	100	98	99	98	395

Are gender and education level dependent at 5% level of significance? In other words, given the data collected above, is there a relationship between the gender of an individual and the level of education that they have obtained? Conclude. [8]

5. What is the application of standard deviation in data analytics? Discuss it in detail. [8]

6. Differentiate between descriptive and Inferential analytics, when one should opt for the later, explain with suitable example. [8]

7. What are the different types of data on which a hypothesis can be performed? Also discuss the kurtosis with respect to probability distribution along with its types. [8]

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Course Outcome

Course Name: Shell Programming
Course Code: CS 14323
Credit Hours: 3
Semester, Year: Autumn, III
Branch: BTech (CS)
Prerequisite: Programming Language (CS 14.101)

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
CS 14323.1	Remember Unix philosophy and features.	Remember
CS 14323.2	understanding the Unix commands, and general purpose utilities.	Understand
CS 14323.3	Apply Unix commands in simple filters and shell programming.	Apply
CS 14323.4	Analysis of File and directory structures, file systems and peripheral devices	Analyse
CS 14323.5	Evaluate the pattern matching, escaping, command substitution, input /output redirection, pipes, tees anddata blocks and i-nodes.	Evaluate
CS 14323.6	Create shell programes and scripts using logical operators, control and looping statements.	Create

12/8/2019

Faculty Name: Dr Sanjeev Patwa

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Course Outcomes

Course Name: Data Science and Big Data Analytics
Course Code: CS 14.415
Credit Hours: 4
Semester, Year: Spring, IV
Branch: Computer Science Engineering
Prerequisite: Database Management Systems (CS-14.204)

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
CS 14.415.1	Understand the key issues in data science and big data management and its associated applications in intelligent business and scientific computing.	Understand
CS 14.415.2	To provide an overview of an exciting growing field of big data analytics.	Evaluate
CS 14.415.3	Acquire fundamental enabling techniques and scalable algorithms of statistics and Data Analysis.	Apply
CS 14.415.4	Interpret business models and scientific computing paradigms, and apply software tools using data science and big data analytics.	Create
CS 14.415.5	Achieve adequate perspectives of big data analytics in various applications like recommender systems, social media applications etc.	Analyze

12/1/20

Faculty Name: Hitesh Jangir

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Course Outcome

Course Name: Microprocessor and Assembly Language Programming
Course Code: CS 14.359
Credit Hours: 1
Semester, Year: Autumn (V), III
Branch: Computer Science Engineering (CSE)
Prerequisite: Basics of Electronics Engineering (EC 14.101), Computer Organization and Architecture

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
Course code.1	Able to remember the pin configuration of different processors and interfacing devices.	Remember
Course code.2	Able to evaluate the difference in programming for different processors.	Evaluate
Course code.3	Able to create efficient interfacing circuits for specific applications.	Create
Course code.4	Able to describe various concepts of interfacing and assembly language programming.	Understand
Course code.5	Able to apply programming, addressing and interfacing techniques.	Apply
Course code.6	Able to analyze interfacing circuits and requirements for various processors.	Analyzing

Dr. Vikas Raina 10/8/2019

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Course Outcome

Course Name : **C++ Programming**
Course Code : **CS 14.205**
Credit : **3**
Semester and Year : **III, 2nd Year**
Program and Branch : **B.Tech-CSE**
Prerequisite : **'C' Programming (CS 14.101)**

Module wise course outcome

Module	Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of course student's will be able to		
Unit 1	CS 14.205.1	Understand the basic concept of object oriented programming	Understand
	CS 14.205.2	Understand the basic of programming techniques	Understand
Unit 2	CS 14.205.3	Understand the basic of C++ programming	Understand
	CS 14.205.4	Implementation of basic programs	Apply
Unit 3	CS 14.205.5	Understand about C++ programming language concepts	Understand
	CS 14.205.6	Implementation of C++ language concepts	Create
Unit 4	CS 14.205.7	Understand the concept of overloading and exception handling	Understand
	CS 14.205.8	Implementation of overloading and exception handling	Apply
Unit 5	CS 14.205.9	Understand the concept of inheritance and overriding	Understand
	CS 14.205.10	Implementation of inheritance and overriding	Apply
Unit 6	CS 14.205.11	Understand the concepts of streams	Understand
Unit 7	Cs 14.205.12	Understand and create templates	Create

Faculty Name: Mr Ajay Kumar

11 08/19

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Course Outcome

Course Name: Foundations and Applications of IoT
Course Code: CS 14.413
Credit Hours: 4
Semester, Year: VII, IV
Branch: CSE
Prerequisite: CS 14.101 (Programming Language), CS 14.303 (Operating System), CS 14.306 (Computer Networks)

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
CS14.413.1	from M2M to IoT,	Understand
CS14.413.2	IoT reference architecture- introduction, functional view, information view,	Understand
CS14.413.3	building an architecture, data representation and visualization, interaction and remote control.	Apply
CS14.413.4	business processes in IoT, everything as a service (XaaS)	Evaluate
CS14.413.5	a use case example	Analyze
CS14.413.6	M2M value chains, IoT value chains,	Remember
CS14.413.7	Industrial automation, the smart grid, smart cities	Apply
CS14.413.8	real-world design constraints- introduction, technical design constraints-hardware is popular again, data representation and visualization, interaction and remote control.	Create

Faculty Name : Dr. Anand Sharma 9/9/19

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Course Outcome

Course Name: Discrete Structures
Course Code: CS19.201
Credit Hours: 4
Semester, Year: III, 2nd Year
Branch: CSE
Prerequisite:

Module wise Course Outcome (CO)

Module	Course Outcome Number	Course Outcome	Bloom Taxonomy
At the end of course student's will be able to:			
Unit 1	CS 19.201.1	Understand about Set, Relations, Functions	Understand
Unit 2	CS 19.201.2	Create Partially ordered relations and their representation hasse diagram	create
Unit 3	CS 19.201.3	Understand and use different Algebraic Structures	Apply
Unit 4	CS 19.201.4	Apply knowledge of Propositional Logic and counting principle to solve variety of discrete mathematics problem	Evaluate
Unit 5	CS 19.201.5	Apply the theory and techniques of Graph Theory for applications	Analyze

11/8/19

Faculty Name: Dr. Vinod Maan

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Course Outcome

Course Name: Application Development for Cloud
Course Code: CS 18.205
Credit Hours: 3
Semester, Year: Autumn, II
Branch: BTech (CS)
Prerequisite: JavaScript.

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
CS 18.205.1	Introduction to HTML5 and JavaScript Programming, JavaScript programming for web applications	Understand
CS 18.205.2	, Getting started with IBM Cloud, Developing IBM Cloud applications on a local workstation, Adopt a DevOps approach by using IBM Cloud Continuous Delivery, REST architecture and Watson APIs, Introduction to data services in IBM Cloud.	Analyse
CS 18.205.3	, Getting started with IBM Cloud, Developing IBM Cloud applications on a local workstation, Adopt a DevOps approach by using IBM Cloud Continuous Delivery, REST architecture and Watson APIs, Introduction to data services in IBM Cloud..	Evaluate
CS 18.205.4	Developing a Hello World Node.js app on IBM Cloud, Understanding asynchronous caliback, Creating your first express application	Apply

Faculty Name: Dr S.S.Verma

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Course Outcome

Course Name: Computer Information Systems
Course Code: CS 14.207

Credit Hours: 3
Semester, Year: Autumn, II
Branch: BTech (CS)
Prerequisite: None

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
CS 14.207.1	Understand the concept of computers, generation of computers and all the parts of computer	Understand
CS 14.207.2	Analyse Software Development, Design principles and classification software development process.	Analyse
CS 14.207.3	Apply Boolean algebra to develop different logical circuits.	Apply
CS 14.207.4	Evaluate K-map representation, and Boolean function and several binary notifications.	Evaluate
CS 14.207.5	Formulate Digital Circuit and Building Blocks and develop web pages by the use of internet technologies.	Create

12/8/2019

Faculty Name: Dr Sanjeev Patwa

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Course Outcome

Course Name: C++ Programming Laboratory
Course Code: CS 14.225
Credit Hours: 1
Semester, Year: Autumn, II
Branch: BTech (CS)
Prerequisite: CS 14.101 (Programming Language Lab.)

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
CS 14.225.1	Understand the concepts of object oriented programming, Use of concepts for implementation and Applying the OOPs concepts for application implementation.	Understand
CS 14.225.2	Implementation of classes and objects and analyzing the real time applications.	Design and Analysis
CS 14.225.3	Implementation of various OOPS concepts like inheritance, polymorphism, and file handling.	Design
CS 14.225.4	Application of OOPs concepts for implementation of various real time applications	Apply

Faculty Name: Mr Ajay Kumar 08/2019

MODY UNIVERSITY
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School of Liberal Arts and Sciences
(Applicable in SET)

Course Outcomes

Course Name: Applied Mathematics

Course Code: MA 14.201

Year: B.Tech. II Yr (Common to All Branches)

Semester: Autumn (3rd)

Faculty Name: Prof. (Dr.) Jitendra Binwal

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MA 14.201.1	Define the different aspects of linear programming, numerical methods, complex analysis, and integral transform.	Remember
MA 14.201.2	Explain the properties related to linear programming, numerical methods, complex analysis, and integral transform.	Understand
MA 14.201.3	Solve the problems related linear programming, numerical methods, complex analysis, and integral transform.	Apply
MA 14.201.4	Analyse the problem related to linear programming, numerical methods, complex analysis, and integral transform.	Analyse
MA 14.201.5	Compare all the aspects of the linear programming, numerical methods, complex analysis, and integral transform.	Evaluate
MA 14.201.6	May integrate the fundamentals of linear programming, numerical methods, complex analysis, and integral transform. in the interdisciplinary area just like science, engineering and technology etc.	Create

12-8-19

Prof. (Dr.) Jitendra Binwal

Signature of the Faculty

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Course Outcome

Course Name: Computer Information Systems Laboratory
Course Code: CS14.227
Credit Hours: 2
Semester, Year: Autumn, II
Branch: BTech (CS)
Prerequisite: CS 14.104 (Programming Language Lab.)

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
CS 14.227.1	Plan a software engineering process life cycle (SDLC Models) for a project. Elicit, analyze and specify software requirements through a productive working relationship with various stakeholders of the project.	Understand
CS 14.227.2	Analyze and translate a specification into a design, and then realize that design practically, using an appropriate software engineering methodology.	Analyse
CS 14.227.3	Students are also able to calculate the digital circuit complexities and design them.	Evaluate
CS 14.227.4	Apply software engineering digital circuit principle for developing web pages and digital circuits.	Apply

12/8/2019

Faculty Name: Dr Sanjeev Patwa

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Course Outcome

Course Name: Operating Systems
Course Code: CS 14.303

Credit Hours: 4
Semester, Year: 5th Semester, 3rd Year
Branch: B.Tech, Computer Science & Engineering
Prerequisite: CS-14.207 (Computer Information System)
CS-14.232 (Computer Organization and Architecture)

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
CS14.303.1	Understand operating system from user's perspective as well as from system's perspective and to evaluate and compare types of operating systems.	Evaluate
CS 14.303.2	To implement Disk Scheduling and Disk Scheduling algorithms.	Apply
CS 14.303.3	To analyze the fundamental operating system abstractions like processes, threads and CPU Scheduling algorithms.	Analyze
CS 14.303.4	To create the basic resource management techniques.	Create
CS 14.303.5	To Implement deadlock, concurrency and synchronization.	Apply
CS 14.303.6	To understand Unix, Linux and Windows Operating Systems	Understand

Dr. Anil Sardiya

MODY UNIVERSITY
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Assignment–Autumn Semester (2019-20)

Year	:	II		Credits	:	03
Course Code	:	CS 14.207		Course Title	:	**Computer Information Systems**
Time Allowed	:			Max. Marks	:	10

Q.No.		Max. Marks.	Course Outcome Number	Bloom Taxonomy
1.		3	CS 14.207.1	Understand
2.		3	CS 14.207.3	Apply
3.		4	CS 14.207.4	Evaluate

CO Number	Total CO Marks	%CO
CS 14.207.1	3	30%
CS 14.207.2	0	
CS 14.207.3	3	30%
CS 14.207.4	4	40%
CS 14.207.5	0	
CS 14.207.6	0	
Total	**10**	

Taxonomy	Total Taxonomy Marks	% Taxonomy
Remember		
Understand	3	30%
Apply	3	30%
Analyse	0	
Evaluate	4	40%
Create	0	
Total	**10**	

Faculty Name: Dr Sanjeev Patwa

31/10/2019

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Assignment – Autumn Semester (2019-20)

Year	:	III		Credits	:	3
Course Code	:	CS 14.305		Course Title	:	Logic In computer Science
Time Allowed	:	2 Weeks		Max. Marks	:	20

Q.No.		Max. Marks.	Course Outcome Number	Bloom Taxonomy
1.	a.	2	CS 14.305.1	Understand
	b.	2	CS 14.305.1	Understand
	c.	3	CS 14.305.2	Apply
	d.	3	CS 14.305.2	Apply
2.	a.	2	CS 14.305.2	Apply
	b.	2	CS 14.305.2	Apply
	c.	3	CS 14.305.3	Analyze
	d.	3	CS 14.305.3	Analyze

CO Number	Total CO Marks	%CO
CS 14.305.1	4	20
CS 14.305.2	10	50
CS 14.305.3	6	30
Total	**20**	**100**

Taxonomy	Total Taxonomy Marks	% Taxonomy
Remember	0	0
Understand	4	20
Apply	10	50
Analyze	6	30
Evaluate	0	0
Total	**20**	**100**

Sunil Kumar Jangir 27/12/19

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Assignment–Autumn Semester (2019-20)

Year	:	III		Credits	:	04
Course Code	:	CS 14.323		Course Title	:	Shell Programming
Time Allowed	:			Max. Marks	:	10

Q.No.	Max. Marks.	Course Outcome Number	Bloom Taxonomy
1.	3	CS 14323.6	Create
2.	3	CS 14323.2	Understand
3.	4	CS 14323.5	Evaluate

CO Number	Total CO Marks	%CO
CS 14.332.1	0	
CS 14.332.2	3	30%
CS 14.332.3	0	
CS 14.332.4		
CS 14.332.5	4	40%
CS 14323.6	3	30%
Total	**10**	

Taxonomy	Total Taxonomy Marks	% Taxonomy
Remember	0	
Understand	3	30%
Apply	0	
Analyse	0	
Evaluate	4	40%
Create	3	30%
Total	**10**	

Faculty Name: Dr Sanjeev Patwa

31/10/2019

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School of Engineering and Technology
Assignment – Autumn Semester (2019-20)

Year	:	IV		Credits	:	4
Course Code	:	CS 14.413		Course Title	:	Foundations and Applications of IoT

Q.No.	Marks	Course Outcome Number	Bloom Taxonomy
1.	5	CS 14.413.1	Understand
2.	5	CS 14.413.2	Understand
3.	5	CS 14.413.5	Analyse
4.	5	CS 14.413.3	Apply
5.	5	CS 14.413.4	Evaluate
6.	5	CS 14.413.7	Apply
7.	5	CS 14.413.6	Remember
8.	5	CS 14.413.6	Remember
9.	5	CS 14.413.3	Apply
10.	5	CS 14.413.8	Create

CO Number	Total CO Marks	%CO
CS 14.413.1	5	10%
CS 14.413.2	5	10%
CS 14.413.3	10	20%
CS 14.413.4	5	10%
CS 14.413.5	5	10%
CS 14.413.6	10	20%
CS 14.413.7	5	10%
CS 14.413.8	5	10%
Total	**50**	**100%**

Taxonomy	Total Taxonomy Marks	% Taxonomy
Remember	10	20%
Understand	10	20%
Apply	15	30%
Analyse	5	10%
Evaluate	5	10%
Create	5	10%
Total	**50**	**100%**

Dr. Anand Sharma

31/10/19

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End Term Examination – Autumn Semester (2020-21)

Course Name: Mobile Apps Development	**Max. Mark: 100**
Course Code: ET 362	**Time: 3 Hrs**
Total no. of Printed Pages: 2	**Weight: 50%**

Q.No.		Max. Marks.	Course Outcome Number	Bloom Taxonomy
1.	a.	2	ET 362.1	Understand
	b.	2	ET 362.2	Analyze
	c.	2	ET 362.3	Create
	d.	2	ET 362.4	Apply
	e.	2	ET 362.4	Apply
	f.	2	ET 362.5	Analyze
	g.	2	ET 362.5	Analyze
	h.	2	ET 362.3	Create
	i.	2	ET 362.6	Remember
	j.	2	ET 362.6	Remember
2.	a.	8	ET 362.1	Understand
	b.	8	ET 362.1	Understand
3.	a.	8	ET 362.5	Analyze
	b.	8	ET 362.6	Remember
4.	a.	8	ET 362.4	Apply
	b.	8	ET 362.2	Analyze
5.	a.	8	ET 362.4	Apply
	b.	8	ET 362.4	Apply
6.	a.	8	ET 362.3	Create
	b.	8	ET 362.3	Create

7.	a.	8	ET 362.4	Apply
	b.	8	ET 362.4	Apply
8.	a.	8	ET 362.5	Analyze
	b.	8	ET 362.6	Remember

CO Number	Total CO Marks	%CO
ET 362.1	18	14
ET 362.2	10	8
ET 362.3	20	15
ET 362.4	44	33
ET 362.5	20	15
ET 362.6	20	15
Total	**132**	**100**

Taxonomy	Total Taxonomy Marks	% Taxonomy
Remember	20	15
Understand	18	14
Apply	44	33
Analyze	30	23
Evaluate	0	0
Create	20	15
Total	**132**	**100**

Faculty Name

P.K Bishnoi

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End Term Examination–Autumn Semester (2019-20)

Year	:	III		Credits	:	03
Course Code	:	CS 14.207		Course Title	:	Computer Information System
Time Allowed	:	3 Hr		Max. Marks	:	100

Q.No.		Max. Marks.	Course Outcome Number	Bloom Taxonomy
1.	a.	2	CS 14.207.1	Understand
	b.	2	CS 14.207.1	Understand
	c.	2	CS 14.207.5	Create
	d.	2	CS 14.207.1	Understand
	e.	2	CS 14.207.5	Create
	f.	2	CS 14.207.4	Evaluate
	g.	2	CS 14.207.4	Evaluate
	h.	2	CS 14.207.2	Analyse
	i.	2	CS 14.207.4	Evaluate
	j.	2	CS 14.207.3	Apply
2.	a.	16	CS 14.207.4	Evaluate
3.	a.	16	CS 14.207.5	Create
4.	a.	8	CS 14.207.1	Understand
	b.	8	CS 14.207.1	Understand
5.	a.	16	CS 14.207.4	Evaluate
6.	a.	8	CS 14.207.2	Analyse
	b.	8	CS 14.207.2	Analyse
7.	a.	8	CS 14.207.4	Evaluate
	b.	8	CS 14.207.4	Evaluate
8.	a.	8	CS 14.207.5	Create
	b.	8	CS 14.207.3	Apply

CO Number	Total CO Marks	%CO
CS 14.332.1	22	16%
CS 14.332.2	18	14%
CS 14.332.3	14	11%
CS 14.332.4	50	38
CS 14.332.5	28	21%
Total	**132**	

Taxonomy	Total Taxonomy Marks	% Taxonomy
Remember	0	0
Understand	22	16%
Apply	10	7%
Analyse	18	14%
Evaluate	54	40%
Create	28	21%
Total	**132**	

Faculty Name: Dr Sanjeev Patwa

27/12/19

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End Term Examination – Autumn Semester (2019-20)

Year	:	3		Credits	:	3
Course Code	:	CS 14.309		Course Title	:	Microprocessor and Assembly Language Programming
Time Allowed	:	1.5 Hrs		Max. Marks	:	40

Q. No.		Max. Marks.	Course Outcome Number	Bloom Taxonomy
1.	i	2	CS 14.309.2	Understand
	ii.	2	CS 14.309.1	Remembering
	iii.	2	CS 14.309.3	Applying
	iv.	2	CS 14.309.3	Applying
	v.	2	CS 14.309.3	Applying
	vi.	2	CS 14.309.5	Evaluating
	vii.	2	CS 14.309.5	Evaluating
	viii.	2	CS 14.309.5	Evaluating
	ix.	2	CS 14.309.6	Create
	x.	2	CS 14.309.6	Create
2.	a.	8	CS 14.309.2	Understand
	b.	8	CS 14.309.6	Create
3.	a.	8	CS 14.309.2	Understand
	b.	8	CS 14.309.4	Analyze
4.	a.	8	CS 14.309.3	Applying
	b.	8	CS 14.309.6	Create
5.	a.	8	CS 14.309.2	Understand
	b.	8	CS 14.309.3	Applying
6.	a.	8	CS 14.309.4	Analyze
	b.	8	CS 14.309.4	Analyze
7.	a.	8	CS 14.309.2	Understand
	b.	8	CS 14.309.6	Create
8.	a.	8	CS 14.309.5	Evaluating
	b.	8	CS 14.309.6	Create

CO Number	Total CO Marks	%CO
EC 14.202.1	2	2
EC 14.202.2	34	26
EC 14.202.3	22	16
EC 14.202.4	24	18
EC 14.202.5	14	10
EC 14.202.6	36	28
Total	**132**	**100**

Taxonomy	Total Taxonomy Marks	% Taxonomy
Remember	2	2
Understand	34	26
Apply	22	16
Analyze	24	18
Evaluate	14	10
Create	36	28
Total	**132**	**100**

27/12/2019

Dr. Vikas Raina

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School of Engineering and Technology
End Term Examination–Autumn Semester (2019-20)

Year	:	III		Credits	:	04
Course Code	:	CS 14.323		Course Title	:	Shell Programming
Time Allowed	:	3 Hr		Max. Marks	:	100

Q.No.		Max. Marks.	Course Outcome Number	Bloom Taxonomy
1.	a.	2	CS 14323.3	Apply
	b.	2	CS 14323.3	Apply
	c.	2	CS 14323.4	Analyse
	d.	2	CS 14323.2	Understand
	e.	2	CS 14323.2	Understand
	f.	2	CS 14323.6	Create
	g.	2	CS 14323.4	Analyse
	h.	2	CS 14.332.1	Remember
	i.	2	CS 14.332.1	Remember
	j.	2	CS 14323.2	Understand
2.	a.	8	CS 14323.3	Apply
	b.	8	CS 14323.2	Understand
3.	a.	16	CS 14323.2	Understand
4.	a.	16	CS 14.332.1	Remember
5.	a.	16	CS 14323.5	Evaluate
6.	a.	8	CS 14323.4	Analyse
	b.	8	CS 14323.4	Analyse
7.	a.	8	CS 14323.5	Evaluate
	b.	8	CS 14323.5	Evaluate
8.	a.	8	CS 14323.6	Create
	b.	8	CS 14323.3	Apply

CO Number	Total CO Marks	%CO
CS 14323.1	20	15%
CS 14323.2	30	23%
CS 14323.3	12	9%
CS 14323.4	20	15%
CS 14323.5	40	30%
CS 14323.6	10	7%
Total	**132**	

Taxonomy	Total Taxonomy Marks	% Taxonomy
Remember	20	15%
Understand	30	23%
Apply	12	9%
Analyse	20	15%
Evaluate	40	30%
Create	10	7%
Total	**132**	

Faculty Name: Dr Sanjeev Patwa

27/12/2019

MODY UNIVERSITY
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School of Engineering and Technology
End Term Examination – Autumn Semester (2019-20)

Year	:	IV		Credits	:	4
Course Code	:	CS 14.413		Course Title	:	Foundations and Applications of IoT
Time Allowed	:	3 Hrs.		Max. Marks	:	100

Q.No.		Max. Marks.	Course Outcome Number	Bloom Taxonomy
1.	i	2	CS 14.413.6	Remember
	ii	2	CS 14.413.1	Understand
	iii	2	CS 14.413.5	Analyse
	iv	2	CS 14.413.2	Understand
	v	2	CS 14.413.6	Remember
	vi	2	CS 14.413.3	Apply
	vii	2	CS 14.413.6	Remember
	viii	2	CS 14.413.3	Apply
	ix	2	CS 14.413.6	Remember
	x	2		
2.	i	8	CS 14.413.6	Remember
	ii	8	CS 14.413.3	Apply
3.	i	8	CS 14.413.4	Evaluate
	ii	8	CS 14.413.5	Analyse
4.	i	8	CS 14.413.3	Apply
	ii	8	CS 14.413.4	Evaluate
5.	i	8	CS 14.413.8	Create
	ii	8	CS 14.413.5	Analyse
6.	i	8	CS 14.413.1	Understand
	ii	8	CS 14.413.6	Remember
7.	i	8	CS 14.413.2	Understand
	ii	8	CS 14.413.7	Apply

8.	i	8	CS 14.413.2	**Understand**
	ii	8	CS 14.413.7	**Apply**

CO Number	Total CO Marks	%CO
CS 14.413.1	10	7.5%
CS 14.413.2	10	7.5%
CS 14.413.3	20	15.15%
CS 14.413.4	16	12.12%
CS 14.413.5	18	13.64%
CS 14.413.6	24	18.18%
CS 14.413.7	8	6.06%
CS 14.413.8	8	6.06%
Total	**132**	**100%**

Taxonomy	Total Taxonomy Marks	% Taxonomy
Remember	24	18.18%
Understand	20	15.15%
Apply	28	21.21%
Analyse	18	13.64%
Evaluate	16	12.12%
Create	8	6.06%
Total	**132**	**100%**

Dr Anand Sharma

27/12/19

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Course Outcome

Course Name: C++ Programming
Course Code: CA 16. 207
Credit Hours: 3
Semester, Year: III,II
Branch: BCA
Prerequisite: Basic Computer Knowledge

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
CA 16. 207.1	Understand the Basic concepts of object oriented programming, overloading of new and delete operators,	Understand
CA 16. 207.2	manipulation of string using operators, type conversion, overloading with friend functions, function overloading, error and exception handling.	Apply
CA 16. 207.3	Header files, I/O stream library, stream I/O for objects, file I/O.	Evaluate
CA 16. 207.4	Structured versus object- oriented programming, merits and demerits of object oriented methodology.	Analyze
CA 16. 207.5	Preprocessor directives, Variables, data types, constants, operators,	Remember
CA 16. 207.6	Static data and member functions, objects, friend functions and friend classes, constant member functions,	Apply
CA 16. 207.7	Pointers to members, constructors and destructor.	Create

Faculty Name : Dr. Anand Sharma 9/8/19

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Course Outcome

Course Name: Agile Software Development
Course Code: ET465
Credit Hours: 40
Semester, Year: IV, III
Branch: BCA
Prerequisite: Software Engineering

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
Course code.1	Understand concepts of agile software Engineering and its advantages in software Engineering	Understanding
Course code.2	Understand the application of Agile methodology in software development	Understanding
Course code.3	Design and Manage project using Scrum method.	Analyzing
Course code.4	Able to design and write User Stories for project requirements	Applying
Course code.5	Able to write test cases for testing the software.	Create
Course code.6	Able to learn the application of automation tools.	Evaluating

15/8/19

Faculty Name : Manmohan Sharma

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Course Outcome

Course Name: Database management System

Course Code: CA 16.203
Credit Hours: 3
Semester, Year: 2nd, 3rd
Branch: BCA
Prerequisite:

Module wise Course Outcome (CO)

Module	Course Outcome Number	Course Outcome	Bloom Taxonomy
		At the end of the course, Student will be able to:	
Unit 1	CA 16203.1	Understand database models & entity relationship models. Understand architecture for database development.	Understand
Unit 2	CA 16203.2	Designing of E-R diagram.	Apply
Unit 3	CA 16203.3	Know about Use Structured Query Language (SQL) with complex queries.	Analyze
Unit 4	CA 16203.4	Design and normalize the relations for any organization.	Analyze
Unit 5	CA 16203.5	Understand the Transaction Processing And Concurrency Control.	Apply

10/2/19

Faculty Name: Rajesh Yadav

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Course Outcome

Course Name: Database management System Lab

Course Code: CA 16.233
Credit Hours: 3
Semester, Year: 2nd, 3rd
Branch: BCA
Prerequisite:

Module wise Course Outcome (CO)

Module	Course Outcome Number	Course Outcome	Bloom Taxonomy
		At the end of the course, Student will be able to:	
Unit 1	CA 16203.1	Understand, appreciate and effectively explain the underlying concepts of database technologies.	Understand
Unit 2	CA 16203.2	Design and implement a database schema for a given problem-domain	Apply
Unit 3	CA 16203.3	Populate and query a database using SQL DML/DDL commands.	Apply
Unit 4	CA 16203.4	Declare and enforce integrity constraints on a database using a state-of-the-art.	Analyze
Unit 5	CA 16203.5	RDBMS.	Analyze

10/9/14

Faculty Name: Rajesh Yadav

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Course Outcome

Course Name: C++ Programming Lab
Course Code: CA 16.235
Credit Hours: 1
Semester, Year: Autumn, II
Branch: BCA
Prerequisite: Programming

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
CA 16.235.1	Understand the concepts of object oriented programming, Use of concepts for implementation and Applying the OOPs concepts for application implementation.	Understand
CA 16.235.2	Implementation of classes and objects and analyzing the real time applications.	Analysis
CA 16.235.3	Implementation of various OOPS concepts like inheritance, polymorphism, and file handling.	Design
CA 16.235.4	Application of OOPs concepts for implementation of various real time applications	Apply

Faculty Name: Dr Anand Sharma 9/12/19

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Course Outcome

Course Name: Web Technology
Course Code: CA 16.301

Credit Hours: 3
Semester, Year: 5th Semester, 3rd Year
Branch: BCA
Prerequisite: Nil

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
CA 16.301.1	Able to understand Client, Server, Internet, HTTP, Web	Understand
CA 16.301.2	Develop HTML and DHTML based applications	Create
CA 16.301.3	Implement JavaScript Web applications	Apply
CA 16.301.4	Strengthen the ability to Analyze VBScript applications	Analyze
CA 16.301.5	Create and use XML Programming	Create

Dr. Uma Kumari

12/8/19

Faculty Name

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Course Outcome

Course Name: C Programming Laboratory
Course Code: CA 19.135

Credit Hours: 2
Semester, Year: Autumn, Ist Year(19-20)
Branch: BCA
Prerequisite: Basic concepts of programming.

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
CA 19.135.1	Demonstrate the use of programming concepts	Apply
CA 19.135.2	Construct C programs to solve the given problems using basic C programming Constructs	Create
CA 19.135.3	Apply the concepts of the pointers, functions, Array,	Apply
CA 19.135.4	Understand and describe the concepts of structures and files in C	Understand

10/08/2019

Prateek Bhanti

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Course Outcome

Course Name: Computer Architecture
Course Code: CA 16.201

Credit Hours: 3
Semester, Year: AUTUMN, 2019-20
Branch: II, BCA
Prerequisite: Fundamental of Computer

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
CA 16.201.1	Understand design of simple computers and its operations and instructions	Understand
CA 16.201.2	Using the instruction and operation knowledge, they can apply functioning of instruction cycle and basic machine language instructions	Apply
CA 16.201.3	Categorize the hardware algorithms and their implementation for basic ALU functions	Analyse
CA 16.201.4	Infers the CPU related functions, use of pipeline and addressing modes	Analyse
CA 16.201.5	Explains the input output organization	Understand
CA 16.201.6	Defines memory organization and memory management hardware	Remember

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Ms. Sonal Shukla

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Course Outcome

Course Name: Management Information System
Course Code: CA 16.205
Credit Hours: 3
Semester, Year: Autumn , IInd Year
Branch: BCA
Prerequisite:

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
CA 16.205.1	To be able to exhibit an understanding of the major functional areas of Business	Understanding
CA 16.205.2	Analyze and synthesize business information needs to facilitate evaluation of strategic alternatives.	Evaluating
CA 16.205.3	TO be able to explain the role of MIS in decision making.	Understanding
CA 16.205.4	To be able to develop conceptual understanding about latest developments in the field of Information Technology and the impact of I.T. in managing a business	Evaluation
CA 16.205.5	To be able to explain fundamental concepts of data communications, computer networking, and the related hardware and Database management system	Understanding
CA 16.205.6	To be able to demonstrate the major steps in the design and implementation phases of the management Information system	creating

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Course Outcome

Course Name: C- Programming
Course Code: CA 19.103

Credit Hours: 3
Semester, Year: Autumn, Ist Year
Branch: BCA
Prerequisite: NIL

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
CA 19.103.1	List and use basic programming techniques concepts for problem solving	Understand
CA 19.103.2	Students should be able to build and design the logic of the problem given.	Analyze
CA 19.103.3	Decide the purpose, usage of various keywords, functions, control structures and operators used in C.	Evaluate
CA 19.103.4	Write programs to Solve the interdisciplinary application problems using the concepts like array, functions, call by value and call by reference	Apply
CA 19.103.5	Students should be able to understand the dynamics of memory by the use of pointers	Apply
CA 19.103.6	Students should be able to use different data structures and create/update basic data files.	Apply

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Course Outcome

Course Name: Computer Fundamentals
Course Code: CA 19.101
Credit Hours: 3
Semester, Year: Autumn, I
Branch: BCA
Prerequisite: NIL

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
CA 19.101.1	Understand the fundamental concepts of computer and structure of computer in various generations	Understand
CA 19.101.2	Familiarize with various components of computer and input/ output devices	Understand
CA 19.101.3	Understand and implement the concept of various number systems and their arithmetic and various data coding standards	Apply
CA 19.101.4	Understand and classifying between the types of programming language, software and operating system	Evaluate
CA 19.101.5	Learn the working of computer network and web communication	Understand

10/8/2019
Vishal Sharma

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Course Outcome

Course Name: Office Automation Lab
Course Code: CA 19.133
Credit Hours: 2
Semester, Year: Autumn, I
Branch: BCA
Prerequisite: NIL

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
CA 19.133.1	Understand the concept of MS-Office Suite	Understand
CA 19.133.2	Use of MS-word for creating documents	Apply
CA 19.133.3	Illustrate the use of MS-Excel for data analysis and accounting operations	Analyze
CA 19.133.4	Designing databases using MS-Access	Create
CA 19.133.5	Design various presentations using MS-Power point	Create

10/8/17
Vishal Sharma

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Course Outcome

Course Name: Web Technology
Course Code: CA 16.301
Credit Hours: 3
Semester, Year: Autumn, III
Branch: BCA
Prerequisite:

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
CA16.301.1	Understand the basics of client server architecture and www	Understand
CA16.301.2	Understand the HTML tags for web page design	Understand
CA16.301.3	Create HTML web pages that use various Scripting functions, and that manipulate files and directories	Analyze
CA16.301.4	Write Java and VB scripts to handle HTML forms	Apply
CA16.301.5	Write regular expressions including modifiers, operators, and meta-characters.	Apply
CA16.301.6	Preparing the XML documents and analyze its uses in web development.	Analyze

10/8/14

Faculty Name: Rajesh Yadav

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Course Outcome

Course Name: Software Engineering
Course Code: CA 16.303
Credit Hours: 3
Semester, Year: Autumn, III
Branch: BCA
Prerequisite: Nil

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
CA 16.303.1	Understand the concept of software Engineering, software Process Model and Quality Standards.	Understand
CA 16.303.2	Analyse Software requirements, Design principles and classification of designing techniques.	Analyse
CA 16.303.3	Apply proper process model and software team for specific software problem.	Apply
CA 16.303.4	Evaluate Several testing techniques and evaluate project size with estimation techniques.	Evaluate
CA 16.303.5	Formulate test case design for different projects and create different designing diagrams.	Create

Faculty Name: Dr Sanjeev Patwa 12/8/2019

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Course Outcome

Course Name: Web Application Development Laboratory
Course Code: CA 16.333
Credit Hours: 3
Semester, Year: Autumn, III
Branch: BCA
Prerequisite:

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
CA 16.333.1	Design web pages based on Tags. Design and formatting a form based on form elements	Create
CA 16.333.2	Based on HTML tags CSS formatting on HTML scripts	Create
CA 16.333.3	Form validation through JavaScript. Program for Event handling. Working with Date and Time Functions. Program for calculator.	Create
CA 16.333.4	Prepare Basic XML Document.	Analyze
CA 16.333.5	Access XML document elements through programs.	Create

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Faculty Name: Rajesh Yadav

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Course Outcome

Course Name: Database Management Systems
Course Code: CA 607
Credit Hours: 3
Semester, Year: Autumn(III Semester), II Year
Branch: MCA
Prerequisite:

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
CA607.1	Understand database systems concepts, Data Models and E-R Modeling	Understand
CA607.2	Learn Concepts of Relational Model and its Applicability	Apply
CA607.3	Implementing SQL and applying it to build the Relational Model and its Physical Functionality	Apply
CA607.4	Determine software backend Design using normalization concepts and its role in Relational Model Implementation	Analyze
CA607.5	Understand the concepts of Concurrent Transactions and analyze the concepts in real world data	Analyze
CA607.6	Learning OOPS concepts in Databases	Understand

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Faculty Name

Vinay Verma

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Course Outcome

Course Name: Computer Graphics
Course Code: CA715
Credit Hours: 3
Semester, Year: MCA 3rd year
Branch: CSE
Prerequisite:

Module wise Course Outcome (CO)

Module	Course Outcome Number	Course Outcome	Bloom Taxonomy
At the end of course student's will be able to:			
Unit 1	CA715.1 CA715.2	Understand basic about computer graphics Understand all picture elements	Understand Remember
Unit 2	CA715.3	Draw scan line drawing : line and circle drawing algorithms	create
Unit 3	CA715.4	Apply two dimensional transformations	Apply
Unit 4	CA715.5	Apply clipping and filling algorithms	Evaluate
Unit 5	CA715.6	Understand animation concept.	Analyze

11/8/19

Faculty Name: Dr. Vinod Maan

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Course Outcome

Course Name: Comprehensive
Course Code: CA 17.791

Credit Hours: 2
Semester, Year: V^th, 3rd
Branch: MCA
Prerequisite: Distributed System, Computer Graphics, Data Mining and Warehousing

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
CA 715.1	Understand the working mechanism of various algorithms and techniques of computer graphics.	**Understand**
CA 709.2	Analyze the different types of system models like architectural model, fundamental model.	**Analyze**
CA 711.3	Analyze the working mechanism of Various techniques of data mining like OLTP, OLAP, Market basket analysis.	**Analyze**

Faculty Name: Dr. Somil Jain 10/08/2019

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Course Outcome

Course Name: Computer Organization and Architecture
Course Code: CA 19.629
Credit Hours: 3
Semester, Year: **Autumn**, II
Branch: **MCA**
Prerequisite: Digital Electronics

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
CA 629.1	Able to explain basic organization of computer and different instruction formats and addressing modes	Remember
CA 629.2	Able to justify the concept of pipelining, segment registers and pin diagram of CPU.	Evaluate
CA 629.3	Discuss the computer arithmetic and design algorithms for various Arithmetic operations.	Create
CA 629.4	Able to describe various issues related to memory hierarchy	Understand

Dr. Ajay Kumar Singh 9/8/2019

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Course Outcome

Course Name: Computer Organization and Architecture
Course Code: CA 19.629
Credit Hours: 3
Semester, Year: **Autumn**, II
Branch: **MCA**
Prerequisite: Digital Electronics

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
CA 629.1	Able to explain basic organization of computer and different instruction formats and addressing modes	Remember
CA 629.2	Able to justify the concept of pipelining, segment registers and pin diagram of CPU.	Evaluate
CA 629.3	Discuss the computer arithmetic and design algorithms for various Arithmetic operations.	Create
CA 629.4	Able to describe various issues related to memory hierarchy	Understand

Dr. Ajay Kumar Singh 9/8/2019

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Course Outcome

Course Name: Distributed Systems
Course Code: CA 709
Credit Hours: 4
Semester, Year: Vth, 3rd
Branch: CSE
Prerequisite: Computer Networks, Operating Systems

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
CA 709.1	Understand the introduction of distributed systems, examples and challenges.	**Understand**
CA 709.2	Analyze the different types of system models like architectural model, fundamental model.	**Analyze**
CA 709.3	Analyze the working mechanism of RPC, RMI and how object invocation takes place.	**Analyze**
CA 709.4	Understand the concept of clocks and timing events.	**Understand**
CA 709.5	Analyze the implementation issues of distributed shared memory	**Analyze**
CA 709.6	Understand the concept of processes and processors in distributed system	**Understand**
CA 709.7	Understand the concept of Distributed file systems and its trends.	**Understand**

Faculty Name: Dr. Somil Jain

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Course Outcome

Course Name: Data Mining and Data Warehousing

Course Code: CA 711
Credit Hours: 3
Semester, Year: 3rd, 5th
Branch: MCA
Prerequisite:

Module wise Course Outcome (CO)

Module	Course Outcome Number	Course Outcome	Bloom Taxonomy
		At the end of the course, Student will be able to:	
Unit 1	CA 16203.1	To understand data mining and data warehousing.	Understand
Unit 2	CA 16203.2	To implement the data warehousing techniques using multiple techniques	Apply
Unit 3	CA 16203.3	Student analyzes the Data Mining and Data Visualization techniques.	Analyze
Unit 4	CA 16203.4	To understand and use tools for data mining	Understand
Unit 5	CA 16203.5	Analyze the concepts of Web-Based Query and Reporting.	Analyze

10/8/14

Faculty Name: **Rajesh Yadav**

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Course Outcome

Course Name: Design and Analysis of Algorithms
Credit Hours: 4
Semester, Year: III, 2nd year MCA
Branch: CSE
Prerequisite: CA19.516(Data Structures)

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
CA 19.603.1	understand the classic algorithms to solve different problems	understand
CA 19.603.2	Critically understand and analyze the different search and sort algorithm	Analyze
CA 19.603.3	Apply algorithms for various computing problems using different paradigms.	Apply
CA 19.603.4	Apply algorithms for various graph optimization problems using trees , graphs	Apply
CA 19.603.5	Analyze the time complexity of the basic algorithms for the classic problems in various domains	Analyze

Faculty Name: Mrs. Aditi Kajala 09/08/2019

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Course Outcome

Course Name: Technical Seminar
Course Code: CA713
Credit Hours: 1
Semester, Year: V,III
Branch: MCA
Prerequisite: NIL

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
CA 713.1	Identify New Technology and its Applicability and developing public speaking skills	Explain
CA 713.2	Understand the continuous learning process and concepts	Understand
CA 713.3	Finding application of the new technology in real world	Recognize
CA 713.4	Concluding real outcomes.	Conclude

10/8/19

Faculty Name: Vinay Verma

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Course Outcome

Course Name: PHP Lab
Course Code: CA 727
Credit Hours: 2
Semester, Year: V, III
Branch: MCA
Prerequisite:

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
Course code.1	Understand PHP codes , and structure for Web developments	Understanding
Course code.2	Analyse the PHP code and structure for web application	Analyzing
Course code.3	Learn and apply PHP code for development of web.	Applying
Course code.4	Analyse the code for performance.	Analyzing
Course code.5	Learn with respect to GUI designing pages	Understanding
Course code 6	Create their own web applications	Create

9/8/19

Faculty Name : Manmohan Sharma

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Course Outcome

Course Name: Java Programming
Course Code: CA 19609
Credit Hours: 3
Semester, Year: Autumn, III
Branch: MCA
Prerequisite: Preferably any programming language, not mandatory

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
CA 19605.1	Understand the concepts of OOP as well as the purpose and usage principles of inheritance, polymorphism, encapsulation and method overloading	Understand
CA 19605.2	Know the operators, control structures and other basic syntaxes	Remember
CA 19605.3	Identify classes, objects, members of a class and the relationships among them needed for a specific problem.	Understand
CA 19605.4	Understand Inheritance, polymorphism etc.	Understand
CA 19605.5	Develop programs using the in-built Java API and the Java standard class library.	Apply
CA 19605.6	Create Java application programs using sound OOP practices (e.g., interfaces and APIs) and proper program structuring (e.g., by using access control identifies, automatic documentation through comments, error exception handling).	Apply

Faculty Name: Dr. Suneet Gupta

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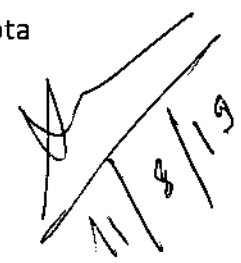
Course Outcome

Course Name: Java Programming Laboratory
Course Code: CA 19625
Credit Hours: 2
Semester, Year: Autumn, III
Branch: MCA
Prerequisite: Preferably any programming language, not mandatory

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
CA 19625.1	Handle the operators, control structures, data types and other basic syntaxes	Remember
CA 19625.2	Identify classes, objects, members of a class, Polymorphism- Overloading and Overriding.	Understand
CA 19625.3	Understand the concepts of Interfaces, command line arguments, Strings.	Understand
CA 19625.4	Include Packages & Exception Handling.	Apply
CA 19625.5	To create threads, synchronization, etc	Create
CA 19625.6	To read and write files, write applets	Analyze

Faculty Name: Dr. Suneet Gupta



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Course Outcome

Course Name: Agile Software Development
Course Code: ET465
Credit Hours: 40
Semester, Year: V, II
Branch: MCA
Prerequisite: Software Engineering

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
Course code.1	Understand concepts of agile software Engineering and its advantages in software Engineering	Understanding
Course code.2	Understand the application of Agile methodology in software development	Understanding
Course code.3	Design and Manage project using Scrum method.	Analyzing
Course code.4	Able to design and write User Stories for project requirements	Applying
Course code.5	Able to write test cases for testing the software.	Create
Course code.6	Able to learn the application of automation tools.	Evaluating

Faculty Name : Manmohan Sharma

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Course Outcome

Course Name	:	**DATA BASE MANAGEMENT SYSTEM**
Course Code	:	**CS 14.204**
Credit	:	**4**
Semester and Year	:	**Spring, II**
Program and Branch	:	**B.TECH**
Prerequisite	:	

Module wise course outcome

Module	Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of course student's will be able to		
Unit 1	CS 19.204.1	Analyze database models & entity relationship models.	Understand
Unit 1	CS 19.204.2	Understand architecture for database	Analyze
Unit 2	CS 19.204.3	Design E-R diagram	Create
Unit 3	CS 19.204.4	Use Structured Query Language (SQL) with complex queries	Apply
Unit 4	CS 19.204.5	Design and normalize the relations for any organization	Analyze
Unit 5/6	CS 19.204.6	Understand transaction processing control	Evaluate

15/01/20

Faculty Name: Mr. Rajesh Yadav

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Course Outcome

Course Name : **Theory of Computation**
Course Code : **CS 14.206**
Credit : **4**
Semester and Year : **IV, 2nd Year**
Program and Branch : **B.Tech-CSE, B.Tech-CSE (BDA, CC, IS, IoT)**
Prerequisite : **Discrete Mathematics (CS 14.201)**

Module wise course outcome

Module	Course Outcome Number	Course Outcome	Bloom Taxonomy
At the end of course student's will be able to:			
Unit 1	CS 14.206.1	Understand about finite state machine and regular grammar	Understand
	CS 14.206.2	Prove the equivalence of languages described by a regular expression and a finite state machine	Apply
	CS 14.206.3	Create a finite state machine for regular languages	Create
Unit 2	CS 14.206.4	Construct pushdown automata and equivalent context free grammar	Create
Unit 3	CS 14.206.5	Understand about CFG and its types	Understand
	CS 14.206.6	Prove the equivalence of languages described by a pushdown automata and context free grammar	Apply
Unit 4	CS 14.206.7	Construct Turing Machines and Linear bounded automata	Create
	CS 14.206.8	Prove the equivalence of language described by Turing machine and post machines	Apply
Unit 5	CS 14.206.9	Describe hierarchy of languages	Understand

Faculty Name: Dr. Vinod Maan 12/1/2021

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Course Outcome

Course Name	:	**DBMS Laboratory**
Course Code	:	**CS 14.224**
Credit	:	**4**
Semester and Year	:	**Spring, II**
Program and Branch	:	**B.TECH**
Prerequisite	:	

Module wise course outcome

Module	Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of course student's will be able to		
Unit 1	CS 19.224.1	Analyze database models & entity relationship models.	Understand
	CS 19.224.2	Understand architecture for database	Analyze
Unit 2	CS 19.224.3	Design E-R diagram	Create
Unit 3	CS 19.224.4	Use Structured Query Language (SQL) with complex queries	Apply
Unit 4	CS 19.224.5	Design and normalize the relations for any organization	Analyze
Unit 5	CS 19.224.6	Understand transaction processing control	Remember

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Faculty Name: Mr. Rajesh Yadav

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Course Outcome

Course Name: Computer Organization and Architecture
Course Code: CS 14.232
Credit Hours: 3 (3-0-0-3)
Semester, Year: IV (Spring), II
Branch: B. Tech. (CSE)
Prerequisite: CS 14.207 (Computer Information System)

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	Layer
CS 14.426.1	Remember the basic structure of digital computer and different arithmetic and logical operation algorithms.	Remembering
CS 14.426.2	Understand the technical concepts, architectures and procedures to perform different operations using digital computers.	Understand
CS 14.426.3	Apply different algorithms and mechanisms to proficiently solve arithmetic and logical problems.	Applying
CS 14.426.4	Analyze the performance and complexity of different logics, algorithms and architectures.	Analyze
CS 14.426.5	Evaluate different algorithms to perform arithmetic operations using digital computers.	Evaluating
CS 14.426.6	Logically creates various methods to perform computer operations.	Creating

Dr. Vikas Raina

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Course Outcome

Course Name	:	**Artificial Intelligence**
Course Code	:	**CS 14.318**
Credit	:	**4**
Semester and Year	:	**VI , 3rd Year**
Program and Branch	:	**B.Tech. CSE, B.Tech**
Prerequisite	:	**Data Structures (CS14.203), Logic in Computer Science (CS 14.305)**

Module wise course outcome

Module	Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of course student's will be able to		
Unit 1	CS 14.318.1	To understand the basic concepts, theories and state-of-the-art techniques of artificial intelligence	Understand
Unit 2	CS 14.318.2 CS 14.318.3	Understand problem solving techniques and algorithms Apply various problem solving algorithms	Understand Apply
Unit 3	CS 14.318.4	Acquire the knowledge of real world Knowledge representation	Understand
Unit 4	CS 14.318.5 CS 14.318.6	Understand various game playing techniques / algorithms Use algorithm/methods for various games	Understand Apply
Unit 5	CS 14.318.7	Understand the natural language processing and parsing	Understand
Unit 6	CS 14.318.8	Describe about learning and different types of learning	Understand

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Faculty Name: Dr. Prateek Bhanti

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Course Outcome

Course Name: Compiler Design
Course Code: CS 14.334
Credit Hours: 3
Semester, Year: VI, 3rdyear
Branch: CSE
Prerequisite: CS14.206,CS 14.203

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
CS 14.334.1	Understand phases of compiler	Remember
CS 14.334.2	Use lexical analyzer generator tools	Apply
CS 14.334.3	Use parser generator tools	Analyze
CS 14.334.4	Understand the syntax directed translation	Evaluate
CS 14.334.5	Generate intermediate code	Create
CS 14.334.6	Understand machine code independent optimization and also understand the register allocation	Understand

Faculty Name: Mrs. Aditi Kajala 10/01/2020

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Course Outcome

Course Name: Compiler Design Laboratory
Course Code: CS 14.354
Credit Hours: 1
Semester, Year: VI, 3rd year
Branch: CSE
Prerequisite: **CS 14.111 CS 14.223**

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
CS 14.354.1	understand the peculiarities of a language translator	Understand
CS 14.354.2	get the practical approach of how a compiler works	Apply
CS 14.354.3	work in the development phase of new computer languages in industry	Create
CS 14.354.4	understand the working of compiler construction tools	Apply

Faculty Name: Mrs. Aditi Kajala 10/01/2020

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Course Outcome

Course Name: Comprehensive II

Course Code: CS 14.374
Credit Hours: 3
Semester, Year: 3rD, 6TH
Branch: B.Tech
Prerequisite:

Module wise Course Outcome (CO)

Module	Course Outcome Number	Course Outcome	Bloom Taxonomy
		At the end of the course, Student will be able to:	
Unit 1	CS 14.374.1	To understand the Design and Analysis of Algorithm.	Understand
Unit 2	CS 14.374.2	Study the OS and its concepts and solves the problems.	Analyze
Unit 3	CS 14.374.3	Apply the logics in computer and solved the solved the problems based on WFF.	Analyze
Unit 4	CS 14.374.4	Understand the microprocessor and its architecture.	Understand
Unit 5	CS 14.374.5	Understand and solved the problems based on automata	create
Unit 6	CS 14.374.6	Understand the concepts of software engineering in the process of software development	Understand
Unit 7	CS 14.374.7	Understand the basic of computer networks and application layer protocols.	Understand

15/01/20

Faculty Name: **Rajesh Yadav**

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Course Outcome

Course Name: Software Defined Networking
Course Code: CS 14.418
Credit Hours: 4
Semester, Year: Spring, VIII,IV
Branch: CSE
Prerequisite: CS 14.302 (Software Engineering), CS 14.306 (Computer Networks)

Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
CS14.418.1	Understand concepts of Software Defined Networking; discuss various types plane.	Understand
CS14.418.2	Applicability of various controllers; Synthesize the flexibility and scalability of using SDN regarding innovation and network management.	Applying
CS14.418.3	Analyze programs for a simple SDN.	Analyze
CS14.418.4	Evaluate various emerging SDN applications.	Evaluate

Dr. Sunil Kumar Jangir 12/1/2020

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Course Outcome

Course Name: Wireless Sensor Networks
Course Code: CS 14.426
Credit Hours: 4 (3-1-0-4)
Semester, Year: VIII (Spring), IV
Branch: B. Tech. (CSE)
Prerequisite: CS 14.306 (Computer Networks)

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	Layer
CS 14.426.1	Remember the characteristics, challenges and applications of WSN.	Remembering
CS 14.426.2	Understand the characteristics, challenges and applications of WSN, emerging technologies and their advantages.	Understand
CS 14.426.3	Apply different architectures of WSN and concepts of topology control.	Applying
CS 14.426.4	Analyze the optimization goals and figure of merit.	Analyze
CS 14.426.5	Evaluate different routing and MAC protocols as well as various platforms and tools.	Evaluating
CS 14.426.6	Create proficient routing and MAC schemes. Logically created various software for WSN and create new localization techniques.	Creating

Dr. Vikas Raina 11/01/2020

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Course Outcome

Course Name: Advanced RDBMS
Course Code: CS 17.302
Credit Hours: 4
Semester, Year: Autumn, VI
Branch: Computer Science and Engineering (BDA)
Prerequisite: Database Management System (CS 14.204)

Module wise Course Outcome (CO)

Module	Course Outcome Number	Course Outcome	Bloom Taxonomy
		At the end of the course, Student will be able to:	
Unit 1	CS 17.302.1	Understanding the Basic of DBMS and Advanced concepts of DBMS in DB2 Environment, Overview of DB on different operating systems like LUW (Linux, Unix and Windows) and analysis using command Line processor on these OS.	Analyze
Unit 2	CS 17.302.2	Understanding and Creating database objects using DB2	Create
Unit 2	CS 17.302.3	Creating and Moving database objects using DB2	Apply
Unit 3	CS 17.302.4	Understanding Transaction, Backup and Recovery using DB2	Understand
Unit 3	CS 17.302.5	Locking and Concurrency control using DB2	Apply
Unit 4	CS 17.302.6	Problem determination, Application issues and performance, Application performance tools, Security	Understand

12/1/2021

Dr. Niranjan Lal

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Course Outcome

Course Name: Technical Seminar
Course Code: CS14.474
Credit Hours: 1
Semester, Year: VII,IV
Branch: BTech(CSE)
Prerequisite: NIL

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
CS14.474.1	Identify New Technology and its Applicability and developing public speaking skills	Explain
CS14.474.2	Understand the continuous learning process and concepts	Understand
CS14.474.3	Finding application of the new technology in real world	Recognize
CS14.474.4	Concluding real outcomes.	Conclude

11/1/20

Faculty Name: Vinay Verma

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Course Outcome

Course Name	:	**Computer Communication Network**
Course Code	:	**19.CA 605**
Credit	:	**4**
Semester and Year	:	**3RD Sem II YEAR MCA**
Program and Branch	:	**MCA**
Prerequisite	:	

Module wise course outcome

Module	Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of course student's will be able to		
Unit 1	ET 362.1 ET 362.2	Understand the Network and need Knowledge on Models etc	Understand Analyze
Unit 2	ET 362.3	Create Basic networking	Create
Unit 3	ET 362.4	How the network computations are Made?	Apply
Unit 4	ET 362.5	Analyze the Routing Algos	Analyze
Unit 5/6	ET 362.6	Focus on QoS And Security	Evaluate

Faculty Name: Mr PK bishnoi

12/11/20

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Course Outcome

Course Name: Distributed Systems
Course Code: CS14.402
Credit Hours: 3
Semester, Year:VIII,IV
Branch: CSE
Prerequisite:CS 14.202(Java Programming), CS 14.303(Operating Systems), CS 14.306(Computer Networks).
Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
CS14.402.1	Understand distributed systems, internet, intranet, mobile, www, ubiquitous computing Understand distributed file systems, requirements and trends.	Understand
CS14.402.2	Have insight into the system models, interaction, failure and security models, client server models,	Analyze
CS14.402.3	Implementing sockets, remote procedure calls and remote method invocations.	Create
CS14.402.4	Determine local time and remote time. Synchronize clocks using Cristian and Berkley algorithms.	Applying
CS14.402.5	Study of DSM. Analyze Distributed shared memory vs Message passing and design implementation issues.	Analyze
CS14.402.6	Finding difference between Distributed database and conventional database, fragmentation and allocation of distributed database Use process and threads in distributed systems.	Apply

Faculty Name

Dr. Somil Jain 12/1/20

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Course Outcome

Course Name: Distributed Systems Lab
Course Code: CS14.452
Credit Hours: 2
Semester, Year:VIII,IV
Branch: CSE
Prerequisite:CS-14.111(Programming Language Lab),CS14.222(Java Programming Lab)

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
CS14.452.1	Analyze the working principles of different distributed systems abstraction.	Create
CS14.452.2	Analyze client server communication model	Analyze
CS14.452.3	Implement Sockets for communication.	Create
CS14.452.4	Formulate programming models for DS concepts like RMI, RPC, distributed shared memory.	Analyze
CS14.452.5	Recognize event ordering in asynchronous distributed systems.	Create
CS14.452.6	Recognize the clock synchronization between client and server.	Create

Faculty Name

Dr. Somil Jain

Mody University of Science and Technology, Lakshmangarh
School of Liberal Arts and Sciences (SLAS)
[Applicable in School of Engineering and Technology (SET)]

Department of Mathematics

Course Outcomes

Course Name: Statistics and Probability Theory (SPT)
Course Code: MA 14.202
Program, Year and Branches: B.Tech. II Yr (CSE/ECE)
Semester: Spring (4th)
Faculty Name: Dr. Jitendra Binwal, Ms. Kiran Singh Bais, and Dr. Vishwas Deep Joshi

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MA 14.202.1	Define the different aspects of probability, random variables, probability distribution, sampling theory, testing of hypothesis, correlation, regression, and queueing theory.	Remember
MA 14.202.2	Explain the properties related to probability, random variables, probability distribution, sampling theory, testing of hypothesis, correlation, regression, and queueing theory.	Understand
MA 14.202.3	Solve the problems related probability, random variables, probability distribution, sampling theory, testing of hypothesis, correlation, regression, and queueing theory.	Apply
MA 14.202.4	Analyse the problem related to probability, random variables, probability distribution, sampling theory, testing of hypothesis, correlation, regression, and queueing theory.	Analyse
MA 14.202.5	Compare all the aspects of the probability, random variables, probability distribution, sampling theory, testing of hypothesis, correlation, regression, and queueing theory.	Evaluate
MA 14.202.6	May integrate the fundamentals as theorems/corollary/lemmas of probability, random variables, probability distribution, sampling theory, testing of hypothesis, correlation, regression, and queueing theory.	Create

02/01/2020

(Dr. Jitendra Binwal)
Signature of the Faculty

Dr. Jitendra Binwal, (Professor and Head, Department of Mathematics, SLAS, MUST)
Faculty Cabin: [illegible], [illegible], [illegible]@gmail.com

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Lecture/Course Plan (w.e.f: 03.01.2020), Spring Semester 2019-2020

Name of Faculty	Subject (With Code)	Semester / Division	Total Lectures Required and Tutorials
Dr. Jitendra Binwal, Ms. Kiran Singh Bala and Dr. Vishwas Deep Joshi	Statistics and Probability Theory (MA 14201)	B.Tech II Year IV Sem (CSE Branch & ECE Branch)	52 [L = 40 & T = 12]

Sr. No.	Topics (Text Books/Reference Books)	No. of Lectures Required
Unit 1	**Introductory Ideas: (T1,T2,T3,&R1)**	[06]
1.1	Discussion about syllabus, Course Plan, evaluation scheme. Basic concepts of sample spaces and event space (as a subset of sample spaces). Introduction to probability,	02
1.2	Basic probability axioms (addition law and multiplication law), problems.	03
1.3	Bayes Theorem and its applications.	02
Unit 2	**Random Variables and Distributions (T2, T3, &R3)**	[04]
2.1	Random variables (Discrete and Continuous), Probability Mass function (for discrete) and Probability density function (for continuous), (p.m.f and p.d.f)	01
2.2	Cumulative distribution function (c.d.f) of random variables (both) and computing their mean, variance and standard deviation.	02
2.3	Total, Marginal, and joint probability for random variable in two dimensions.	01
2.4	Mathematical expectation (Mean and variance) for discrete and continuous variables.	0 2
Unit 3	**Theoretical Probability distributions (T2 &R3)**	[08]
3.1	Binomial Distribution. (Its mass function, mean, variance) Problems.	02
3.2	Poisson Distribution (also, as a limiting case of binomial) with problems	02
3.3	Uniform Distribution (mean and variance)	01
3.4	Normal Distribution (mean and variance) with problems.	03
Unit 4	**Sampling Theory (T3&R2)**	[04]
4.1	Population and sample. Sampling distribution of the means, Its mean (i.e. mean of the means) and variance, In terms of the population parameters.	01
4.2	Sampling distribution of proportions.	01
4.3	Central Limit Theorem. (statement only)	01
4.4	Application of the CLT to sampling problems.	01
Unit 5	**Testing of Hypothesis (T2,T4,&R2)**	[04]
5.1	Introduction to simple and composite testing, Type-I and Type-2 errors.	01
5.2	Confidence intervals and confidence levels.	02
5.3	Tests of significance and level of significance.	01
Unit 6	**Correlation and Regression (T2,R4,&R5)**	[06]
6.1	Introduction of Simple, partial and multiple correlations with problems of simple correlation s only.	02
6.2	Correlation coefficient and rank coefficient.	02
6.3	Linear Regression.	02
Unit 7	**Queuing Theory and Queuing models (T2,T3T5,&R2)**	[08]
7.1	Birth and death processes, Poisson Arrivals/service rate, exponential inter-arrival and service rate.	03
7.2	Introduction to the Queuing models: Kendalls notation	01
7.3	(M/M/1): FCFC/∞/∞ Queuing model: Problems of Model one only.	03
7.4	Introduction other models: (M/M/c):FCFC/∞/∞, (M/M/1):FCFC/N/∞ (without problems)	01

Dr. Jitendra Binwal, (Professor and Head, Department of Mathematics, UAS, NOIDA)
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Contents of Mid-Term/CW/ETE Examinations:

Mid Term I (Weight-age: 40%) [From 1.1 to 4.4]

CW (Assignment [06 Marks]/Class Test [04 marks]) (Weight-age: 10%) [Entire syllabus]

End Term Examination Syllabus: (Weight-age: 50%)

MA -14202	**Statistics and Probability Theory**	3-1-0-4
		Total Lecture: 40

Objective: To acquire fundamental knowledge of Statistics and Probability and apply in engineering disciplines.

1. Introductory Ideas: Recapitulation of Basic Probability theory; Law of addition and law of multiplication ;conditional probability; total probability; Bayes' theorem and it's applications.	[06]
2. Random Variables and Distribution: Discrete and continuous random variables; types of distribution; probability mass and density functions; mean, variance and standard deviation of distribution.	[04]
3. Theoretical Probability Distribution: Discrete types (Binomial) and Continuous type (Normal, Students'); applications of basic ideas to these distributions	[08]
4. Sampling Theory: Sampling distribution of mean and variance; central limit Theorem.	[04]
5. Testing of Hypothesis: Simple and Composite hypothesis; Type I and Type II errors; tests of significance and level of significance.	[04]
6. Correlation and Regression: Simple, partial and multiple correlations; linear regression.	[06]
7. Queuing Theory and Queuing Models: Birth and death process; pure birth and pure death process; Classification of queuing models; M/M/1, M/M/1/N, M/M/S and M/M/S/N	[08]

Outcome: After completion of the course, students would be able to apply the knowledge of Statistics and Probability in engineering and solve curriculum problems.

Text Books:

1. A.P.Barnab and Manoranjan Jas, Elements of Probability and Statistics, 2003, TMH.
2. Pagalararasu, Probability and Queuing Theory, TMH.
3. Gupta & Kapoor, Fundamental of Mathematical Statistics, S.C.S Publisher, June 2002.
4. Gupta & Kapoor, Fundamental of Applied statistics, S.C.S Publisher, Jan 2001.
5. B.S. Ramana, Higher Engineering Mathematics, TMH, 2006.

Reference Books:

1. Papoulis, Probability, Random Variables and Stochastic Processes, TMH.
2. Palaniammal, Probability and Random Processes, PHI.
3. Spiegel, Probability and Statistics (Schaum's Outline Series), TMH.
4. Miller and Freund's, Mathematical Statistics with Applications, 7e, Pearson.
5. Richard A. Jonson, Probability and Statistics for Engineers, Pearson.

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Course Outcome

Course Name: Designing of IoT
Course Code: CS 14.416
Credit Hours: 4
Semester, Year: Spring, IV
Branch: Computer Science Engineering
Prerequisite: Foundations and Applications of IoT (CS-14.413)

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
CS 14.416.1	Understand concept of networking and cloud computing used in IoT.	Understand
CS 14.416.2	Illustrate the working of IoT Hardware panels and other equipment's.	Apply
CS 14.416.3	Understand the working of IoT protocols and related architectures used in IoT	Understand
CS 14.416.4	Demonstrate the development of IoT enabled applications	Apply
CS 14.416.5	Study and Examining various cases of IoT.	Analyze
CS 14.416.6	Understand the Industry 4.0 concepts.	Understand

Dr. Anil Saroliya 11/9/20

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Course Outcome

Course Name: Essentials of Software Engineering (OOAD & SW Life Cycle)
Course Code: CS 17.208
Credit Hours: 3
Semester, Year: Spring, II
Branch: BTech (CS-IBM)
Prerequisite: Programming Language (CS 14.101)

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
CS 17.208.1	Understand the concept of software Engineering, software Process Model and Quality Standards.	Understand
CS 17.208.2	Analyse Software requirements, Design principles and classification of designing techniques.	Analyse
CS 17.208.3	Apply proper process model and software team for specific software problem.	Apply
CS 17.208.4	Evaluate Several testing techniques and evaluate project size with estimation techniques.	Evaluate
CS 17.208.5	Formulate test case design for different projects and create different designing diagrams.	Create

Faculty Name: Dr Sanjeev Patwa 12/1/2020

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Course Outcome

Course Name: Software Engineering
Course Code: CS 14.332
Credit Hours: 3
Semester, Year: Spring, III
Branch: BTech (CS)
Prerequisite: Programming Language (CS 14.101)

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
CS 14.332.1	Understand the concept of software Engineering, software Process Model and Quality Standards.	Understand
CS 14.332.2	Analyse Software requirements, Design principles and classification of designing techniques.	Analyse
CS 14.332.3	Apply proper process model and software team for specific software problem.	Apply
CS 14.332.4	Evaluate Several testing techniques and evaluate project size with estimation techniques.	Evaluate
CS 14.332.5	Formulate test case design for different projects and create different designing diagrams.	Create

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Faculty Name: Dr Sanjeev Patwa

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Course Outcome

Course Name: Business Intelligence
Course Code: CS 18.210
Credit Hours: 3
Semester, Year: Spring, III
Branch: BTech (CS)
Prerequisite: Business Intelligence (CS 18.210)

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
CS 18.210.1	Understand the vision of Business Intelligence from a global context.	Understand
CS 18.210.2	Applying and analyzing various prompt types and conditionally render objects in reports.	Analyse
CS 18.210.3	Building and create Active Report connection. Creating projects using dashboards, stories and exploration to find business insights.	Apply
CS 18.210.4	To understand and apply IBM Cognos Analytics in Market perspective of Business Intelligence.	Evaluate
CS 18.210.5	Formulate Case Study and create different dashboard design.	Create

Faculty Name: Ms. Saloni Gulati

13/7/20

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Course Outcome

Course Name: Predictive Modelling Analytics
Course Code: CS 18.338
Credit Hours: 3
Semester, Year: Spring, III
Branch: BTech (CS)
Prerequisite: Predictive Modelling Analytics (CS 18.338)

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
CS 18.338.1	Understand and critically apply the concepts and methods of Business analytics	Understand
CS 18.338.2	To understand and apply IBM SPSS Modeler in Data Mining, what kinds of data can be mined, what kinds of patterns can be mined.	Analyse
CS 18.338.3	Applying and analyzing how to use functions, deal with missing values, use advanced field operations, handle sequence data and improve efficiency	Apply
CS 18.338.4	To evaluate the Model on the basis of different Predictive Methods.	Evaluate
CS 18.338.5	Building and create advanced analytical model that leverage historical data to uncover real-time insights to predict future events.	Create

Faculty Name: Ms. Saloni Gulati

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Course Outcome

Course Name: Advance Artificial Intelligence
Course Code: CS 18.407
Credit Hours: 3
Semester, Year: Spring, III
Branch: BTech (CS)
Prerequisite: Programming Language (CS 14.101)

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
CS 18.407.1	Students will understand the basics of AI	Understand
CS 18.407.2	Analyse data with Watson Studio and Watson discovery	Analyse
CS 18.407.3	Apply machine learning algorithm for various AI domain	Apply
CS 18.407.4	Evaluate Several testing techniques and evaluate outcome of AI services.	Evaluate
CS 18.407.5	Create and deploy services over IBM cloud	Create

13/1/20

Faculty Name: Sandeep Tomar

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Course Outcome

Course Name: Application Security
Course Code: CS 18.216
Credit Hours: 3-0-0-3
Semester, Year: Spring, II
Branch: BTech (CS)
Prerequisite: Basics of Networking

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
CS 14.332.1	Gain a better understanding of the cybersecurity posture	Understand
CS 14.332.2	Analyze the emerging threats and understand techniques to protect from these cyber threats.	Analyse
CS 14.332.3	Develop a hacker mindset and apply the same to secure the organization	Apply
CS 14.332.4	Be proactive about emerging security threats and evaluate the fundamental threat intelligence concepts	Evaluate
CS 14.332.5	Prepare professional report on their findings and improve their presentation skills	Create

14/1/20

Faculty Name: Mr. Raman Puneet Singh

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Course Outcome

Course Name: Cloud Computing
Course Code: ET 471
Credit Hours: 40
Semester, Year: VI, III
Branch: CSE
Prerequisite: Nil

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
Course code.1	Understand the evolution of cloud computing, its need and characteristics	Understand
Course code.2	Analyse the basic cloud deployment and service models	Analyse
Course code.3	Describe the definition of virtualization technology	Evaluate
Course code.4	Illustrate EC2 services of Amazon web services	Apply
Course code.5	Describe private cloud. Its advantages and disadvantage.	Remember
Course code.6	Categorize different private cloud vendors and services provided by them.	Create

15/07/20

Faculty Name : Manmohan Sharma

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Course Outcome

Course Name: Data Mining
Course Code: CS 14.322
Credit Hours: 04
Semester, Year: Spring, Third
Branch: B.Tech.
Prerequisite: CS-14.204, CS-14.301, MA-14.202

Module wise Course Outcome (CO)

Module	Course Outcome Number	Course Outcome	Bloom Taxonomy
		At the end of the course, Student will be able to:	
Unit 1	CS 14.322.1	Overview:Evolution of the database system technology, concept of data mining and warehousing, data warehouse roles and structures, cost of warehousing data, approaches to data exploration and data mining, foundations of data mining, web warehousing, introduction to knowledge management and knowledge bases.	Remember
Unit 2	CS 14.322.2	Data Warehouse:Overview of data warehousing, data marts, data warehouse architecture, multidimensional data model, online analytical processing (OLAP), OLAP operations, data about data - metadata.	Understand
Unit 3	CS 14.322.3	Data Mining and Data Visualization: Data mining general approach, classification and clustering, introduction to DM tool (Weka,Rapidminer), techniques used to mine the data, current limitations and challenges to DM, data visualization, visualization tools.	Apply
Unit 4	CS 14.322.4	Data Preprocessing: Overview, data cleaning, data integration, data reduction strategies, principal component analysis, sampling, histograms, clustering, data cube aggregation, data transformation and discretization.	Analyze
Unit 5	CS 14.322.5	Machine Learning: Supervised and unsupervised machine learning, market basket analysis (Apriori algorithm), fuzzy logic and linguistic ambiguity, artificial neural networks, genetic algorithms,genetically evolved networks, applications for machine learning.	Apply
Unit 7	CS 14.322.5	Text Mining:Information retrieval and search, text classification, text clustering,	Apply

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		unsupervised learning, mining frequent patterns and correlations, classification concepts, backpropagation, decision tree induction, rule based classification, clustering basic concepts and methods, K-means centroid based technique.	
Unit 7	CS 14.322.5	Web Based Statistical Analysis: Delivering information over the web, query and reporting tools and business value, business value from analytical tools, statistical analysis applications, data discovery tools overview, data discovery applications, search engines and the web, search engine architecture, future of data mining.	Create

11/1/20

Faculty Name (Dr. Puneet kumar)

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Course Outcome

Course Name: Software Project Management
Course Code: CS 14.412
Credit Hours: 4
Semester, Year: VIII, IV
Branch: CSE
Prerequisite: CS 14.302 (Software Engineering)

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
CS14.412.1	Software Engineering problem and software product, software product attributes,	Understand
CS14.412.2	Objectives, project schedule, sequencing and scheduling activities, network planning models,	Understand
CS14.412.3	collecting the data, visualizing progress, cost monitoring, earned value, prioritizing monitoring, getting the project back to target, change control	Apply
CS14.412.4	Strategic assessment, technical assessment, cost benefit analysis, cash flow forecasting, cost benefit evaluation techniques, risk evaluation	Evaluate
CS14.412.5	forward pass, backward pass	Analyze
CS14.412.6	definition of a Software Project (SP), SP vs. other types of projects activities covered by SPM,	Remember
CS14.412.7	ecision making leadership, organizational structures, stress, health and safety,	Apply
CS14.412.8	Creating the frame work, The Oldman, Hackman job characteristics model,	Create

Faculty Name : Dr. Anand Sharma 12/1/2020

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Course Outcome

Course Name	:	**Computer Graphics**
Course Code	:	**CS 14.316**
Credit Hours	:	**3**
Semester, Year	:	**B.Tech. 3rd year (Elective)**
Branch	:	**CSE**
Prerequisite	:	**"C'-Programming (CS 19.101), Mathematics-I (MA 19.101)**

Module wise Course Outcome (CO)

Module	Course Outcome Number	Course Outcome	Bloom Taxonomy
At the end of course student's will be able to:			
Unit 1	CS 14316.1 CS 14316.2	Understand basic about computer graphics Understand and apply scan conversion	Understand Apply
Unit 2	CS 14316.3 CS 14316.4	Apply two dimensional transformations, Apply clipping and filling algorithms	Apply Apply
Unit 3	CS 14316.5	Understand the concept of curves and surfaces	understand
Unit 4	CS 14316.6 CS 14316.7	Understand Projection techniques Apply visible surface detection	Understand and apply Apply
Unit 5	CS 14316.8	Understand rendering techniques	Understand
Unit 6	CS 14316.9	Understand the basic of animation and multimedia	Understand

Faculty Name: Dr. Ajay Kumar
11/01/2020

8	a	4	1	**Understand**
	b	4	4	**Create**
	c	4	7	**Create**
	d	4	9	**Understand**

CO Number	Total CO Marks	%CO
Course Code.1	26	19.69
Course Code.2	20	15.15
Course Code.3	18	13.63
Course Code.4	30	22.72
Course Code.5	10	7.57
Course Code.6	10	7.57
Course Code.7	6	4.54
Course Code.8	8	6.06
Course Code.9	4	3.03
Total	**132**	**100**

Taxonomy	Total Taxonomy Marks	% Taxonomy
Remember	-	-
Understand	40	30.30
Apply	38	28.78
Analyse	-	-
Evaluate	-	-
Create	54	40.90
Total	**132**	**100**

Faculty Name : Dr. Vinod Maan 9/8/20

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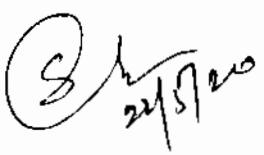
End Term Examination – Spring Semester (2019-20)

Year	:	IV		Credits	:	4
Course Code	:	CS 14.418		Course Title	:	Software Defined Networking
Time Allowed	:	3 Hrs		Max. Marks	:	100

Q. No.		Max. Marks.	Course Outcome Number	Bloom Taxonomy
1.	i	2	CS 14.418.1	Understand
	ii.	2	CS 14.418.1	Understand
	iii.	2	CS 14.418.1	Understand
	iv.	2	CS 14.418.1	Understand
	v.	2	CS 14.418.2	Apply
	vi.	2	CS 14.418.2	Apply
	vii.	2	CS 14.418.1	Understand
	viii.	2	CS 14.418.1	Understand
	ix.	2	CS 14.418.4	Evaluate
	x.	2	CS 14.418.2	Apply
2.	a.	8	CS 14.418.1	Understand
	b.	8	CS 14.418.1	Understand
3.	a.	8	CS 14.418.1	Understand
	b.	8	CS 14.418.2	Apply
4.	a.	8	CS 14.418.2	Apply
	b.	8	CS 14.418.2	Apply
5.	a.	8	CS 14.418.4	Evaluate
5.	b.	8	CS 14.418.4	Evaluate
6.	a.	8	CS 14.418.1	Understand
	b.	8	CS 14.418.4	Evaluate
7.	a.	8	CS 14.418.2	Apply
	b.	8	CS 14.418.4	Evaluate
8.	a.	8	CS 14.418.3	Analyze
	b.	8	CS 14.418.4	Evaluate

CO Number	Total CO Marks	%CO
CA 19.101.1	44	33.33
CA 19.101.2	38	28.79
CA 19.101.3	8	6.06
CA 19.101.4	42	31.82
Total	**132**	**100**

Taxonomy	Total Taxonomy Marks	% Taxonomy
Remember	0	0
Understand	44	33.33
Apply	38	28.79
Analyze	8	6.06
Evaluate	42	31.82
Total	**132**	**100**



Sunil Kumar Jangir

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School of Engineering and Technology
Mid Term Examination – Spring Semester (2019-20)

Course Name: Computer Communication Network	**Max. Mark: 40**
Course Code: CA 19.605	**Time: 3/2 Hrs**
Total no. of Printed Pages: 2	

Q.No.		Max. Marks.	Course Outcome Number	Bloom Taxonomy
1.	a.	2	CA 19.610.1	Understand
	b.	2	CA 19.610.2	Analyze
	c.	2	CA 19.610.1	Create
	d.	2	CA 19.610.2	Apply
	e.	2	CA 19.610.1	Apply
2.	a.	5	CA 19.610.1	Create
		5	CA 19.610.2	Apply
3.	a.	5	CA 19.610.2	Analyze
	b.	5	CA 19.610.1	Create
	c	5	CA 19.610.3	Apply
4.	a.	5	CA 19.610.2	Understand
	b.	5	CA 19.610.2	Analyze
	c	5	CA 19.610.3	Create

CO Number	Total CO Marks	%CO
CA 19.610.1	16	32
CA 19.610.2	24	48
CA 19.610.3	10	20
CA 19.610.4		
CA 19.610.5		
CA 19.610.6		
Total	**50**	**100**

Taxonomy	Total Taxonomy Marks	% Taxonomy
Remember	0	0
Understand	7	14
Apply	14	28
Analyze	12	24
Evaluate	0	0
Create	17	34
Total	**50**	**100**

9/3/20

Faculty Name

P.K Bishnoi

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Mid Term Examination–Spring Semester (2019-20)

Year	:	III		Credits	:	4
Course Code	:	CS14.318		Course Title	:	Artificial Intelligence
Time Allowed	:	90 mins		Max. Marks	:	40

Q.No.		Max. Marks.	Course Outcome Number	Bloom Taxonomy
1.	a.	2	CS 14.318.2	Understand
	b.	2	CS 14.318.3	Apply
	c.	2	CS 14.318.2	Understand
	d.	2	CS 14.318.2	Understand
	e.	2	CS 14.318.3	Understand
2.	a.	10	CS 14.318.2	Analyze
3.	a.	5	CS 14.318.2	**Understand**
	b.	5	CS 14.318.3	Analyze
	c.	5	CS 14.318.1	Remembering
4.	a.	5	CS 14.318.1	Remembering
	b.	5	CS 14.318.1	Understand
	c.	5	CS 14.318.2	Understand

CO Number	Total CO Marks	%CO
Course Code.1	15	30
Course Code.2	26	52
Course Code.3	9	18
Course Code.4		
Course Code.5		
Course Code.6		
Total	**50**	**100**

Taxonomy	Total Taxonomy Marks	% Taxonomy
Remember	10	20
Understand	23	46
Apply	2	4
Analyse	15	30
Evaluate		-
Create		
Total	**50**	**100**

9/3/2020

Faculty Name : Prateek Bhanti

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Mid Term Examination – Spring Semester (2019-20)

Year	:	IV		Credits	:	4
Course Code	:	CS 14.412		Course Title	:	Software Project Management
Time Allowed	:	$1^{1/2}$Hrs.		Max. Marks	:	40

Q.No.		Max. Marks.	Course Outcome Number	Bloom Taxonomy
1.		10	CS 14.412.1	Understand
2.		10	CS 14.412.5	Analyse
3.	a.	5	CS 14.412.4	Evaluate
	b.	5	CS 14.412.7	Apply
	c.	5	CS 14.412.6	Remember
4.	a.	5	CS 14.412.3	Apply
	b.	5	CS 14.412.5	Analyse
	c.	5	CS 14.412.6	Remember

CO Number	Total CO Marks	%CO
CS 14.412.1	10	20%
CS 14.412.2	0	0%
CS 14.412.3	5	10%
CS 14.412.4	5	10%
CS 14.412.5	15	30%
CS 14.412.6	10	20%
CS 14.412.7	5	10%
CS 14.412.8	0	0%
Total	**50**	**100%**

Taxonomy	Total Taxonomy Marks	% Taxonomy
Remember	0	0%
Understand	10	20%
Apply	10	20%
Analyse	15	30%
Evaluate	5	10%
Create	0	0%
Total	**50**	**100%**

Dr. Anand Sharma

5/3/2020

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School of Engineering and Technology
Assignment–Spring Semester (2018-19)

Year	:	III		Credits	:	03
Course Code	:	CS 18.407		Course Title	:	Advance Artificial Intelligence
Time Allowed	:			Max. Marks	:	10

Q.No.		Max. Marks.	Course Outcome Number	Bloom Taxonomy
1.		3	CS 18.407.5	Create
2.		3	CS 18.407.1	Understand
3.		4	CS 18.407.4	Apply

CO Number	Total CO Marks	%CO
CS 18.407.1	3	30%
CS 18.407.2	0	
CS 18.407.3	4	40%
CS 18.407.4	0	
CS 18.407.5	3	30%
Total	**10**	

Taxonomy	Total Taxonomy Marks	% Taxonomy
Remember	0	
Understand	3	30%
Apply	4	40%
Analyse	0	
Evaluate	0	
Create	3	30%
Total	**10**	

Faculty Name: Mr. Sandeep Tomar 9/3/20

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Assignment – Spring Semester (2019-20)

Year	:	III Year		Credits	:	3
Course Code	:	CS14.318		Course Title	:	Artificial Intelligence
Time Allowed	:			Max. Marks	:	10

Q.No.	Max. Marks.	Course Outcome Number	Bloom Taxonomy
1.	5	CS14.318.1	Remember
2.	5	CS14.318.2	Understand

CO Number	Total CO Marks	%CO
CS CS14.318.1	5	50
CS CS14.318.2	5	50
CS CS14.318.3	0	0
CS CS14.318.4		
CS CS14.318.5	0	0
CS CS14.318.6	0	0
Total	**10**	**100**

Taxonomy	Total Taxonomy Marks	% Taxonomy
Remember	5	50
Understand	5	50
Apply		
Analyse	0	0
Evaluate	0	0
Create	0	0
Total	**50**	**100**

9/3/20

Dr. Prateek Bhanti

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School of Engineering and Technology
Assignment – Spring Semester (2019-20)

Year	:	IV		Credits	:	4
Course Code	:	CS 14.412		Course Title	:	Software Project Management

Q.No.	Marks	Course Outcome Number	Bloom Taxonomy
1.	5	CS 14.412.1	Understand
2.	5	CS 14.412.2	Understand
3.	5	CS 14.412.5	Analyse
4.	5	CS 14.412.3	Apply
5.	5	CS 14.412.4	Evaluate
6.	5	CS 14.412.7	Apply
7.	5	CS 14.412.6	Remember
8.	5	CS 14.412.6	Remember
9.	5	CS 14.412.3	Apply
10.	5	CS 14.413.8	Create

CO Number	Total CO Marks	%CO
CS 14.412.1	5	10%
CS 14.412.2	5	10%
CS 14.412.3	10	20%
CS 14.412.4	5	10%
CS 14.412.5	5	10%
CS 14.412.6	10	20%
CS 14.412.7	5	10%
CS 14.412.8	5	10%
Total	**50**	**100%**

Taxonomy	Total Taxonomy Marks	% Taxonomy
Remember	10	20%
Understand	10	20%
Apply	15	30%
Analyse	5	10%
Evaluate	5	10%
Create	5	10%
Total	**50**	**100%**

Dr. Anand Sharma

13/2/2020

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End Term Examination – Autumn Semester (2019-20)

Year	:	I		Credits	:	3
Course Code	:	CA 19.605		Course Title	:	Computer Communication Network
Time Allowed	:			Max. Marks	:	50

Q.No.		Max. Marks.	Course Outcome Number	Bloom Taxonomy
1.	a.	2	CA 19.101.1	Understand
	b.	2	CA 19.101.2	Analyze
	c.	2	CA 19.101.3	Create
	d.	2	CA 19.101.4	Apply
	e.	2	CA 19.101.4	Apply
2.	f.	4	CA 19.101.4	Understand
	g.	4	CA 19.101.1	Understand
	h.	4	CA 19.101.5	Remember
	i.	4	CA 19.101.4	Understand
	j.	4	CA 19.101.3	Create
3.	a.	8	CA 19.101.1	Understand
	b.	8	CA 19.101.6	Remember
		8	CA 19.101.5	Understand
		8	CA 19.101.4	Create
		8	CA 19.101.3	Analyze

CO Number	Total CO Marks	%CO
CA 19.101.1	14	20
CA 19.101.2	2	3
CA 19.101.3	14	20
CA 19.101.4	20	33
CA 19.101.5	12	17
CA 19.101.6	8	11.4
Total	**70**	**100(APPROX)**

Taxonomy	Total Taxonomy Marks	% Taxonomy
Remember	26	37.14
Understand	14	20.00
Apply	04	5.71
Analyze	12	17.14
Evaluate	0	0.00
Create	14	20.00
Total	**132**	**100**

27/5/20

Faculty Name

P.K Bishnoi

MODY UNIVERSITY
A Leading Women's University

School of Engineering and Technology
End Term Examination – Spring Semester (2019-20)

Year	:	CSE IV		Credits	:	4
Course Code	:	CS 14.426		Course Title	:	Wireless and Sensor Networks
Time Allowed	:	3 Hrs		Max. Marks	:	100

Q. No.		Max. Marks.	Course Outcome Number	Bloom Taxonomy
1.	a.	2	CA 16.108.2	Understand
	b.	2	CA 16.108.1	Remembering
	c.	2	CA 16.108.3	Applying
	d.	2	CA 16.108.3	Applying
	e.	2	CA 16.108.3	Applying
	f.	2	CA 16.108.5	Evaluating
	g.	2	CA 16.108.5	Evaluating
	h.	2	CA 16.108.5	Evaluating
	i.	2	CA 16.108.6	Create
	j.	2	CA 16.108.6	Create
2.	a.	8	CA 16.108.2	Understand
	b.	8	CA 16.108.6	Create
3.	a.	8	CA 16.108.2	Understand
	b.	8	CA 16.108.4	Analyze
4.	a.	8	CA 16.108.3	Applying
	b.	8	CA 16.108.6	Create
5.	a.	8	CA 16.108.2	Understand
	b.	8	CA 16.108.3	Applying
6.	a.	8	CA 16.108.4	Analyze
	b.	8	CA 16.108.4	Analyze
7.	a.	8	CA 16.108.2	Understand
	b.	8	CA 16.108.6	Create

				Evaluating
8	a.	8	CA 16.108.5	Create
	b.	8	CA 16.108.6	

CO Number	Total CO Marks	%CO
CA 16.108.1	2	2
CA 16.108.2	34	26
CA 16.108.3	22	16
CA 16.108.4	24	18
CA 16.108.5	14	10
CA 16.108.6	36	28
Total	**132**	**100**

Taxonomy	Total Taxonomy Marks	% Taxonomy
Remember	2	2
Understand	34	26
Apply	22	16
Analyse	24	18
Evaluate	14	10
Create	36	28
Total	**132**	**100**

Dr. Vikas Raina 22/5/20

MODY UNIVERSITY
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School of Engineering and Technology
End Term Examination – Spring Semester (2018-19)

Year	:	III	Credits	:	4
Course Code	:	**CS 17.302**	Course Title	:	**Advanced RDBMS**
Time Allowed	:	**3 Hrs.**	Max. Marks	:	**100**

Q.No.		Max. Marks.	Course Outcome Number	Bloom Taxonomy
1.	i.	2	CS 17.302.1	Understand
	ii.	2	CS 17.302.1	Analyze
	iii.	2	CS 17.302.1	Understand
	iv.	2	CS 17.302.1	Create
	v.	2	CS 17.302.2	Understand
	vi.	2	CS 17.302.1	Apply
	vii.	2	CS 17.302.2	Create
	viii.	2	CS 17.302.4	Understand
	ix.	2	CS 17.302.3	Remember
	x.	2	CS 17.302.3	Remember
2.	i	8	CS 17.302.1	Create
	ii	8	CS 17.302.1	Analyze
3.	i	8	CS 17.302.4	Analyse
	ii	8	CS 17.302.3	Remember
4.	i	8	CS 17.302.1	Analyse
	ii	8	CS 17.302.3	Evaluate
5.	i	8	CS 17.302.5	Understand
	ii	8	CS 17.302.4	Create
6.	i	8	CS 17.302.6	Understand
	ii	8	CS 17.302.5	Analyse
7.	i	8	CS 17.302.1	Apply
	ii	8	CS 17.302.3	Apply
8	i.	4	CS 17.302.1	Understand
	ii.	4	CS 17.302.1	Understand
	iii.	4	CS 17.302.2	Understand
	iv.	4	CS 17.302.4	Analyze

CO Number	Total CO Marks	%CO
CS 17.302.1	50	37.87%
CS 17.302.2	8	6.06%
CS 17.302.3	28	21.22%
CS 17.302.4	22	16.66%
CS 17.302.5	16	12.13%
CS 17.302.6	8	6.06%
Total	**132**	**100%**

Taxonomy	Total Taxonomy Marks	% Taxonomy
Remember	12	9.0%
Understand	36	27.27%
Apply	18	13.63%
Analyse	38	28.78%
Evaluate	8	6.06%
Create	20	15.15%
Total	**132**	**100%**

Dr Niranjan Lal 27/5/20

MODY UNIVERSITY
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School of Engineering and Technology
End Term Examination – Spring Semester (2019-20)

Year	:	II		Credits	:	3
Course Code	:	CS 14.232		Course Title	:	Computer Organization and Architecture
Time Allowed	:	3 hrs		Max. Marks	:	100

Q.No.		Max. Marks.	Course Outcome Number	Bloom Taxonomy
1.	i.	2	CS14.232.1	**Remember**
	ii.	2	CS14.232.4	Understand
	iii.	2	CS14.232.6	Analyze
	iv.	2	CS14.232.1	Remember
	v.	2	CS14.232.2	Evaluate
	vi.	2	CS14.232.3	Create
	vii.	2	CS14.232.5	Apply
	viii.	2	CS14.232.4	**Understand**
	ix.	2	CS14.232.3	**Create**
	x.	2	CS14.232.2	**Evaluate**
2.	a.	8	CS14.232.5	Apply
	b.	8	CS14.232.4	Understand
3.	a.	8	CS14.232.1	Remember
	b.	8	CS14.232.6	Analyze
	a.	8	CS14.232.2	Evaluate
4.	b.	8	CS14.232.3	Create
5.	a.	8	CS14.232.4	Understand
	b.	8	CS14.232.3	Create
6.	a.	8	CS14.232.5	Apply
	b.	8	CS14.232.6	Analyze
7.	a.	8	CS 14.232.2	Evaluate

	b.	8	CS 14.232.4	Understand
8.	a.	4	CS 14.232.5	Apply
	b.	4	CS14.232.2	Evaluate
	c.	4	CS 14.232.4	Understand
	d.	4	CS 14.232.1	Remember

CO Number	Total CO Marks	%CO
CS 14.232.1	16	100
CS 14.232.2	24	100
CS 14.232.3	20	100
CS 14.232.4	32	100
CS 14.232.5	22	100
CS 14.232.6	18	100
Total	**100**	**100**

Taxonomy	Total Taxonomy Marks	% Taxonomy
Remember	16	100
Understand	32	100
Apply	22	100
Analyze	18	100
Evaluate	24	100
Create	20	100
Total	**100**	**100**

22/5/20

Dr. Vikas Raina

MODY UNIVERSITY
A Leading Women's University

School of Engineering and Technology
Mid Term Examination–SpringSemester (2018-19)

Year	:	III		Credits	:	4
Course Code	:	CS 14.206		Course Title	:	Theory of Computation
Time Allowed	:	3 hrs		Max. Marks	:	100

Q.No.		Max. Marks.	Course Outcome Number	Bloom Taxonomy
1.	a.	2	1	Understand
	b.	2	1	Understand
	c.	2	2	Apply
	d.	2	3	Create
	e.	2	4	Create
	f	2	5	Understand
	g	2	6	Apply
	h	2	7	Create
	i	2	2	Apply
	j	2	1	Understand
2.	a.	8	2	Apply
	b.	8	1	Understand
3.	a.	8	3	Create
	b.	8	3	Create
4	a	8	4	Create
	b	8	5	Understand
5	a	8	4	Create
	b	8	2	Apply
6	a	8	1	Understand
	b	8	4	Create
7	a	8	6	Apply
	b	8	8	Apply

MODY UNIVERSITY
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School of Engineering and Technology
Mid Term Examination – Spring Semester (2019-20)

Year	:	IV B Tech CSE		Credits	:	4
Course Code	:	CS 14.426		Course Title	:	Wireless and Sensor Networks
Time Allowed	:	1-1/2 Hr		Max. Marks	:	40

Q. No.		Max. Marks.	Course Outcome Number	Bloom Taxonomy
1.	a.	2	CS 14.426.1	Remembering
	b.	2	CS 14.426.1	Remembering
	c.	2	CS 14.426.2	Understand
	d.	2	CS 14.426.2	Understand
	e.	2	CS 14.426.2	Understand
2.	a.	5	CS 14.426.3	Applying
	b.	5	CS 14.426.4	Analyze
3.	a.	5	CS 14.426.5	Evaluating
	b.	5	CS 14.426.5	Evaluating
	c.	5	CS 14.426.2	Understand
4.	a.	5	CS 14.426.2	Understand
	b.	5	CS 14.426.3	Applying
	c.	5	CS 14.426.6	Create

CO Number	Total CO Marks	%CO
CS 14.426.1	4	8
CS 14.426.2	16	32
CS 14.426.3	10	20
CS 14.426.4	5	10
CS 14.426.5	10	20
CS 14.426.6	5	10
Total	**50**	**100**

Taxonomy	Total Taxonomy Marks	% Taxonomy
Remember	4	8
Understand	16	32
Apply	10	20
Analyze	5	10
Evaluate	10	20
Create	5	10
Total	**50**	**100**

Dr. Vikas Raina 9/3/20

MODY UNIVERSITY
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School of Engineering and Technology
Mid Term Examination – Spring Semester (2018-19)

Year	:	III	Credits	:	4
Course Code	:	CS 17.302	Course Title	:	Advanced RDBMS
Time Allowed	:	$1^{1/2}$Hrs.	Max. Marks	:	40

Q.No.		Max. Marks.	Course Outcome Number	Bloom Taxonomy
1.	a.	2	CS 17.302.1	Understand
	b.	2	CS 17.302.1	Understand
	c.	2	CS 17.302.1	Understand
	d.	2	CS 17.302.2	Evaluate
	e	2	CS 17.302.1	Understand
2.	a.	5	CS 17.302.3	Create
	b.	5	CS 17.302.2	Analyse
3.	a.	5	CS 17.302.3	Create
	b.	5	CS 17.302.2	Evaluate
	c.	5	CS 17.302.4	Apply
4.	a.	5	CS 17.302.4	Apply
	b.	5	CS 17.302.4	Apply
	c.	5	CS 17.302.3	Crete

CO Number	Total CO Marks	%CO
CS 17.302.1	8	16
CS 17.302.2	12	24
CS 17.302.3	15	30
CS 17.302.4	15	30
CS 17.302.5	0	0
CS 17.302.6	0	0
Total	**50**	**100%**

Taxonomy	Total Taxonomy Marks	% Taxonomy
Remember	6	12
Understand	2	4
Apply	15	30
Analyse	5	10
Evaluate	7	14
Create	15	30
Total	**50**	**100%**

Dr. Niranjan Lal 9/3/20

MODY UNIVERSITY
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School of Engineering and Technology
Mid Term Examination – Spring Semester (2019-20)

Year	:	II		Credits	:	3
Course Code	:	CS 14.232		Course Title	:	Computer Organization and Architecture
Time Allowed	:	1.5 hrs		Max. Marks	:	40

Q.No.		Max. Marks.	Course Outcome Number	Bloom Taxonomy
1.	i.	2	CS14.232.1	Remember
	ii.	2	CS14.232.4	Understand
	iii.	2	CS14.232.3	Create
	iv.	2	CS14.232.1	Remember
	v.	2	CS14.232.2	Evaluate
2.	a.	5	CS14.232.5	Apply
	b.	5	CS14.232.6	Analyze
3.	a.	5	CS14.232.5	Apply
	b.	5	CS14.232.6	Analyze
4.	a.	5	CS14.232.2	Evaluate
	b.	5	CS14.232.4	Understand

CO Number	Total CO Marks	%CO
CS 14.232.1	4	100
CS 14.232.2	7	100
CS 14.232.3	2	100
CS 14.232.4	7	100
CS 14.232.5	10	100
CS 14.232.6	10	100
Total	**40**	**100**

Taxonomy	Total Taxonomy Marks	% Taxonomy
Remember	4	100
Understand	7	100
Apply	10	100
Analyze	10	100
Evaluate	7	100
Create	2	100
Total	**40**	**100**

Dr. Vikas Raina

MODY UNIVERSITY
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School of Engineering and Technology
Mid Term Examination–SpringSemester (2018-19)

Year	:	III		Credits	:	03
Course Code	:	CS14.332		Course Title	:	Software Engineering
Time Allowed	:	1-1/2 Hr		Max. Marks	:	40

Q.No.		Max. Marks.	Course Outcome Number	Bloom Taxonomy
1.	a.	2	CS 14.332.1	Understand
	b.	2	CS 14.332.5	Create
	c.	2	CS 14.332.5	Create
	d.	2	CS 14.332.1	Understand
	e.	2	CS 14.332.3	Apply
2.	a.	10	CS 14.332.4	Evaluate
3.	a.	5	CS 14.332.1	Understand
	b.	5	CS 14.332.1	Understand
	c.	5	CS 14.332.1	Understand
4.	a.	5	CS 14.332.2	Analyse
	b.	5	CS 14.332.3	Apply
	c.	5	CS 14.332.2	Analyse

CO Number	Total CO Marks	%CO
CS 14.332.1	19	38%
CS 14.332.2	10	20%
CS 14.332.3	7	14%
CS 14.332.4	10	20%
CS 14.332.5	4	8%
Total	**50**	

Taxonomy	Total Taxonomy Marks	% Taxonomy
Remember	0	0
Understand	19	38%
Apply	7	14%
Analyse	10	20%
Evaluate	10	20%
Create	4	8%
Total	**50**	

Faculty Name: Dr Sanjeev Patwa

9/3/2020

MODY UNIVERSITY
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School of Engineering and Technology
Mid Term Examination – Spring Semester (2019-20)

Year	:	4		Credits	:	3
Course Code	:	CS14.402		Course Title	:	Distributed Systems
Time Allowed	:	1.5hrs.		Max. Marks	:	40

Q.No.		Max. Marks.	Course Outcome Number	Bloom Taxonomy
1.	a.	2	CS14.402.1	Understand
	b.	2	CS14.402.2	Analyze
	c.	2	CS14.402.1	Understand
	d.	2	CS14.402.2	Analyze
	e.	2	CS14.402.3	Create
2.	a.	5	CS14.402.1	Understand
	b.	5	CS14.402.2	Analyze
3.	a.	5	CS14.402.2	Analyze
	b.	5	CS14.402.2	Analyze
	c.	5	CS14.402.3	Create
4.	a.	5	CS14.402.3	Create
	b.	5	CS14.402.3	Create
	c.	5	CS14.402.3	Create

CO Number	Total CO Marks	%CO
CS14.402.1	9	18
CS14.402.2	19	38
CS14.402.3	22	44
Course Code.4		

Taxonomy	Total Taxonomy Marks	% Taxonomy
Remember	0	0
Understand	9	18
Apply	0	0
Analyze	19	38

Course Code.5		
Course Code.6		
Total	50	100

Evaluate	0	0
Create	22	44
Total	**50**	**100**

Faculty Name: Dr. Somil Jain

MODY UNIVERSITY
A Leading Women's University

School of Engineering and Technology
Mid Term Examination–SpringSemester (2019-20)

Year	:	II		Credits	:	03
Course Code	:	CS17.208		Course Title	:	Essentials of Software Engineering (OOAD &SW Life Cycle)
Time Allowed	:	1-1/2 Hr		Max. Marks	:	40

Q.No.		Max. Marks.	Course Outcome Number	Bloom Taxonomy
1.	a.	2	CS17.208.1	Understand
	b.	2	CS 17.208.5	Create
	c.	2	CS 17.208.5	Create
	d.	2	CS 17.208.1	Understand
	e.	2	CS 17.208.3	Apply
2.	a.	10	CS 17.208.4	Evaluate
3.	a.	5	CS 17.208.1	Understand
	b.	5	CS 17.208.1	Understand
	c.	5	CS 17.208.1	Understand
4.	a.	5	CS 17.208.2	Analyse
	b.	5	CS 17.208.3	Apply
	c.	5	CS 17.208.2	Analyse

CO Number	Total CO Marks	%CO
CS 17.208.1	19	38%
CS 17.208.2	10	20%
CS 17.208.3	7	14%
CS 17.208.4	10	20%
CS 17.208.5	4	8%
Total	**50**	

Taxonomy	Total Taxonomy Marks	% Taxonomy
Remember	0	0
Understand	19	38%
Apply	7	14%
Analyse	10	20%
Evaluate	10	20%
Create	4	8%
Total	**50**	

Faculty Name: Dr Sanjeev Patwa

9/3/2020

MODY UNIVERSITY
A Leading Women's University

School of Engineering and Technology
Mid Term Examination – Spring Semester (2019-20)

Year	:	III		Credits	:	4
Course Code	:	ET471		Course Title	:	Cloud Computing
Time Allowed	:	90 mins		Max. Marks	:	40

Q.No.		Max. Marks.	Course Outcome Number	Bloom Taxonomy
1.	a.	2	1	Understand
	b.	2	3	Remember
	c.	2	4	Evaluate
	d.	2	2	Analyse
	e.	2	1	Understand
2.	a.	5	1	Understand
	b.	5	3	Remember
3.	a.	5	4	Evaluate
	b.	5	6	Apply
	c.	5	2	Analyse
4.	a.	5	2	Analyse
	b.	5	5	Create
	c.	5	1	Understand

CO Number	Total CO Marks	%CO
Course Code.1	14	28
Course Code.2	12	24
Course Code.3	7	14
Course Code.4	7	14
Course Code.5	5	10
Course	5	10

Taxonomy	Total Taxonomy Marks	% Taxonomy
Remember	7	14
Understand	14	28
Apply	5	10
Analyse	12	24
Evaluate	7	14
Create	5	10

Code.6		
Total	**50**	**100**

Total	**50**	**100**

9/12/20

Faculty Name : Manmohan Sharma

MODY UNIVERSITY
A Leading Women's University

School of Engineering and Technology
Mid Term Examination – Spring Semester (2019-20)

Year	:	IV		Credits	:	4
Course Code	:	CS14.418		Course Title	:	Logic in Computer Science
Time Allowed	:	1.5 hrs.		Max. Marks	:	40

Q.No.		Max. Marks.	Course Outcome Number	Bloom Taxonomy
1.	a.	2	CS 14.418.1	Understand
	b.	2	CS 14.418.1	Understand
	c.	2	CS 14.418.1	Understand
	d.	2	CS 14.418.1	Understand
	e.	2	CS 14.418.1	Understand
2.	a.	5	CS 14.418.2	Applying
	b.	5	CS 14.418.2	Applying
3.	a.	5	CS 14.418.1	Understand
	b.	5	CS 14.418.1	Understand
	c.	5	CS 14.418.2	Applying
4.	a.	5	CS 14.418.2	Applying
	b.	5	CS 14.418.2	Applying
	c.	5	CS 14.418.2	Applying

CO Number	Total CO Marks	%CO
CS 14.418.1	20	40
CS 14.418.2	30	60
CS 14.418.3	0	0
CS 14.418.4	0	0
Total	**50**	**100**

Taxonomy	Total Taxonomy Marks	% Taxonomy
Remember	0	0
Understand	20	40
Apply	30	60
Analyse	0	0
Evaluate	0	0
Total	**50**	**100**

Sunil Kumar Jangir 9/3/20

MODY UNIVERSITY
A Leading Women's University

School of Engineering and Technology
Mid Term Examination – Spring Semester (2019-20)

Year	:	III		Credits	:	3
Course Code	:	CS14.334		Course Title	:	Compiler Design
Time Allowed	:	1 hr 30 minutes		Max. Marks	:	40

Q.No.		Max. Marks.	Course Outcome Number	Bloom Taxonomy
1.	a.	2	2	apply
	b.	2	1	Remember
	c.	2	1	Remember
	d.	2	2	apply
	e.	2	1	Remember
2.	a.	5	3	Analyze
	b.	5	3	Analyze
3.	a.	5	3	Analyze
	b.	5	3	Analyze
	c.	5	3	Analyze
4.	a.	5	3	Analyze
	b.	5	3	Analyze
	c.	5	2	apply

CO Number	Total CO Marks	%CO
Course Code.1	6	12
Course Code.2	9	18
Course Code.3	35	70
Course Code.4	0	0
Course Code.5	0	0

Taxonomy	Total Taxonomy Marks	% Taxonomy
Remember	6	12
Understand	0	0
Apply	9	18
Analyse	35	70
Evaluate	0	0

Course Code.6	0	0
Total	**50**	**100**

Create	0	0
Total	**50**	**100**

Faculty Name: Aditi Kajala 9/3/2020

MODY UNIVERSITY
A Leading Women's University

School of Engineering and Technology
EndTerm Examination–Autumn Semester (2019-20)

Year	:	2019-2020		Credits	:	4
Course Code	:	CS19.101		Course Title	:	Programming Language
Time Allowed	:	3		Max. Marks	:	100

Q.No.		Max. Marks.	Course Outcome Number	Bloom Taxonomy
1.	a.	2	CS19.101.2	Understand
	b.	2	CS19.101.2	Understand
	c.	2	CS19.101.3	Create
	d.	2	CS19.101.5	Analyze
	e.	2	CS19.101.5	Analyze
	f.	2	CS19.101.5	Analyze
	g.	2	CS19.101.4	Create
	h.	2	CS19.101.2	Understand
	i.	2	CS19.101.2	Understand
	j.	2	CS19.101.6	Apply
2.	a.	8	CS19.101.1	Understand
	b.	8	CS19.101.2	Understand
3.	a.	8	CS19.101.3	Create
	b.	8	CS19.101.3	Create
4.	a.	8	CS19.101.4	Create
	b.	8	CS19.101.4	Create
5	a.	8	CS19.101.5	Analyze
	b.	8	CS19.101.6	Apply
6	a.	8	CS19.101.6	Apply
	b.	8	CS19.101.2	Understand
7	a.	8	CS19.101.6	Apply
	b.	8	CS19.101.4	Create

8	a.	4	CS19.101.6	**Apply**
	b.	4	CS19.101.3	**Create**
	c.	4	CS19.101.4	**Create**
	d.	4	CS19.101.2	**Understand**

CO Number	Total CO Marks	%CO
CS19.101.1	8	6
CS19.101.2	28	21
CS19.101.3	22	17
CS19.101.4	30	23
CS19.101.5	14	11
CS19.101.6	30	22
Total	**132**	**100**

Taxonomy	Total Taxonomy Marks	% Taxonomy
Remember	0	0
Understand	36	27
Apply	30	23
Analyze	14	11
Evaluate	0	0
Create	52	39
Total	**132**	**100**

Faculty Name

Siddhanta Kumar Singh

MODY UNIVERSITY
A Leading Women's University

School of Engineering and Technology
End Term Exam – Autumn Semester (2019-20)

Year	:	2019-2020		Credits	:	2
Course Code	:	CS19.151		Course Title	:	Programming Language Lab
Time Allowed	:	2 Hours		Max. Marks	:	30+10

Q.No.	Max. Marks.	Course Outcome Number	Bloom Taxonomy
1.	15	CS14.101.3	Create
2	15	CS14.101.6	Apply

CO Number	Total CO Marks	%CO
CS19.151.1	0	0
CS19.151.2	0	0
CS19.151.3	15	50
CS19.151.4	0	0
CS19.151.5	0	0
CS19.151.6	15	50
Total	**30**	**100**

Taxonomy	Total Taxonomy Marks	% Taxonomy
Remember	0	0
Understand	0	0
Apply	15	50
Analyze	0	0
Evaluate	0	0
Create	15	50
Total	**30**	**100**

Faculty Name

Siddhanta Kumar Singh 31/10/2019

MODY UNIVERSITY
A Leading Women's University

School of Engineering and Technology
End Term Examination–Autumn Semester (2019-20)

Year	:	III		Credits	:	03
Course Code	:	CS 14.303		Course Title	:	Operating System
Time Allowed	:	3 Hr		Max. Marks	:	100

Q.No.		Max. Marks.	Course Outcome Number	Bloom Taxonomy
1.	i	2	CS 14.303.3	Analyze
	ii	2	CS 14.303.4	Create
	iii	2	CS 14.303.1	Evaluate
	iv	2	CS 14.303.3	Analyze
	v	2	CS 14.303.4	Create
	vi	2	CS 14.303.5	Apply
	vii	2	CS 14.303.4	Create
	viii	2	CS 14.303.1	Evaluate
	ix	2	CS 14.303.3	Analyze
	x	2	CS 14.303.4	Create
2.	a.	10	CS 14.303.5	Apply
	b.	6	CS 14.303.4	Create
3.	a.	8	CS 14.303.2	Apply
	b.	8	CS 14.303.4	Create
4.	a.	8	CS 14.303.2	Apply
	b.	8	CS 14.303.4	Create
5.	a.	8	CS 14.303.1	Evaluate
	b.	8	CS 14.303.2	Apply
6.	a.	12	CS 14.303.3	Analyze
	b.	4	CS 14.303.1	Evaluate
7.	a.	8	CS 14.303.3	Analyze
	b.	8	CS 14.303.5	Apply
8.	a,b,c	16	CS 14.303.6	Understand

CO Number	Total CO Marks	%CO
CS 14.303.1	16	12%
CS 14.303.2	24	18%
CS 14.303.3	26	20%

Taxonomy	Total Taxonomy Marks	% Taxonomy
Remember	0	0
Understand	16	12%
Apply	44	33%

CS 14.303.4	30	23%
CS 14.303.5	20	15%
CS14.303.6	16	12%
Total	**132**	

Analyze	26	20%
Evaluate	16	12%
Create	30	23%
Total	**132**	

Faculty Name: Dr. Anil Saroliya 27/12/19

MODY UNIVERSITY
A Leading Women's University

School of Engineering and Technology
End Term Examination – Autumn Semester (2019-20)

Year	:	II		Credits	:	3
Course Code	:	CS 14.203		Course Title	:	Data Structure
Time Allowed	:	3 Hrs		Max. Marks	:	100

Q. No.		Max. Marks.	Course Outcome Number	Bloom Taxonomy
1.	i	2	CS 14.203.2	Apply
	ii.	2	CS 14.203.4	Analyze
	iii.	2	CS 14.203.4	Analyze
	iv.	2	CS 14.203.2	Apply
	v.	2	CS 14.203.5	Understand
	vi.	2	CS 14.203.4	Analyze
	vii.	2	CS 14.203.5	Understand
	viii.	2	CS 14.203.2	Apply
	ix.	2	CS 14.203.5	Understand
	x.	2	CS 14.203.3	Analyze
2.	a.	8	CS 14.203.2	Apply
	b.	8	CS 14.203.2	Apply
3.	a.	8	CS 14.203.2	Apply
	b.	8	CS 14.203.1	Understand
4.	a.	8	CS 14.203.2	Apply
	b.	8	CS 14.203.2	Apply
5.	a.	8	CS 14.203.3	Analyze
	b.	8	CS 14.203.3	Analyze
6.	a.	8	CS 14.203.4	Analyze
	b.	8	CS 14.203.4	Analyze
7.	a.	8	CS 14.203.5	Understand
	b.	8	CS 14.203.5	Understand
8.	a.	8	CS 14.203.5	Understand
	b.	8	CS 14.203.5	Understand

CO Number	Total CO Marks	%CO
CS 14.203.1	8	6
CS 14.203.2	46	35
CS 14.203.3	18	14
CS 14.203.4	22	17
CS 14.203.5	38	28
Total	**132**	**100**

Taxonomy	Total Taxonomy Marks	% Taxonomy
Remember	0	0
Understand	46	35
Apply	46	35
Analyze	40	30
Evaluate	0	0
Total	**132**	**100**

Vishal Sharma

MODY UNIVERSITY
A Leading Women's University

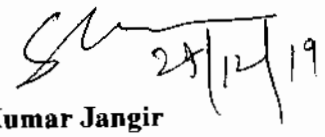
School of Engineering and Technology
End Term Examination – Autumn Semester (2019-20)

Year	:	III		Credits	:	3
Course Code	:	CS 14.305		Course Title	:	Logic in Computer Science
Time Allowed	:	3 Hrs		Max. Marks	:	100

Q. No.		Max. Marks.	Course Outcome Number	Bloom Taxonomy
1.	i	2	CS 14.305.1	Understand
	ii.	2	CS 14.305.1	Understand
	iii.	2	CS 14.305.1	Understand
	iv.	2	CS 14.305.2	Apply
	v.	2	CS 14.305.2	Apply
	vi.	2	CS 14.305.2	Apply
	vii.	2	CS 14.305.2	Apply
	viii.	2	CS 14.305.3	Analyze
	ix.	2	CS 14.305.1	Understand
	x.	2	CS 14.305.1	Understand
2.	a.	8	CS 14.305.1	Understand
	b.	8	CS 14.305.1	Understand
3.	a.	8	CS 14.305.1	Understand
	b.	8	CS 14.305.2	Apply
4.	a.	8	CS 14.305.2	Apply
	b.	8	CS 14.305.2	Understand
5.	a.	8	CS 14.305.1	Understand
	b.	8	CS 14.305.2	Apply
6.	a.	8	CS 14.305.2	Apply
	b.	8	CS 14.305.2	Apply
7.	a.	8	CS 14.305.2	Apply
	b.	8	CS 14.305.3	Analyze
8.	a.	8	CS 14.305.3	Analyze
	b.	8	CS 14.305.3	Analyze

CO Number	Total CO Marks	%CO
CA 19.101.1	50	37.88
CA 19.101.2	56	42.43
CA 19.101.3	26	19.69
Total	**132**	**100**

Taxonomy	Total Taxonomy Marks	% Taxonomy
Remember	0	0
Understand	50	37.88
Apply	56	42.43
Analyze	26	19.69
Evaluate		
Total	**132**	**100**



Sunil Kumar Jangir

MODY UNIVERSITY
A Leading Women's University

School of Engineering and Technology
End Term Examination – Autumn Semester (2019-20)

Year	:	**2019-2020**		Credits	:	**1**
Course Code	:	**CS14.455**		Course Title	:	**Digital Image Processing Lab**
Time Allowed	:	**2 Hrs**		Max. Marks	:	**40**

Q. No.		Max. Marks.	Course Outcome Number	Bloom Taxonomy
1.		10	CS14.455.3	Understand
2.		10	CS14.455.5	Apply
3.	Viva	20	All	All

CO Number	Total CO Marks	%CO
CS14.455.1	4	10
CS14.455.2	12	30
CS14.455.3	12	30
CS14.455.4	4	10
CS14.455.5	4	10
CS14.455.6	4	10
Total	**40**	**100**

Taxonomy	Total Taxonomy Marks	% Taxonomy
Remember	4	10
Understand	12	30
Apply	12	30
Analyze	4	10
Evaluate	4	10
Create	4	10
Total		**100**

Faculty Name Dr. Ajay Kumar Singh

MODY UNIVERSITY
A Leading Women's University

End ~~Mid~~ School of Engineering and Technology
Term Examination – Autumn Semester (2019-20)

Year	:	BCA III		Credits	:	4
Course Code	:	ET465		Course Title	:	Agile Software Development
Time Allowed	:	3 hrs		Max. Marks	:	100

Q.No.		Max. Marks.	Course Outcome Number	Bloom Taxonomy
1.	a.	2	6	Create
	b.	2	6	Create
	c.	2	1	Remember
	d.	2	5	Understand
	e.	2	3	Analyse
	f	2	5	Understand
	g	2	5	Understand
	h	2	1	Remember
	i	2	3	Analyse
	j	2	2	Apply
2.	a.	8	1	Remember
	b.	8	1	Remember
3.	a.	8	5	Understand
	b.	8	2	Apply
4	a	8	5	Understand
	b	8	6	Create
5	a	8	4	Evaluate
	b	8	4	Evaluate
6	a	8	1	Remember
	b	8	5	Understand
7	a	8	6	Create
	b	8	3	Analyse

8	a	8	5	**Understand**
	b	8	2	**Apply**

CO Number	**Total CO Marks**	**%CO**
Course Code.1	32	23
Course Code.2	14	11
Course Code.3	12	10
Course Code.4	16	12
Course Code.5	34	26
Course Code.6	24	18
Total	**132**	**100**

Taxonomy	**Total Taxonomy Marks**	**% Taxonomy**
Remember	28	23
Understand	18	11
Apply	16	10
Analyse	16	12
Evaluate	34	26
Create	20	18
Total	**132**	**100**

31/10/19

Faculty Name : Manmohan Sharma

MODY UNIVERSITY
A Leading Women's University

School of Engineering and Technology
End Term Examination – Autumn Semester (2019-20)

	Year	:	II		Credits	:	3
	Course Code	:	CA16.201		Course Title	:	COMPUTER ARCHITECTURE
	Time Allowed	:	3 Hrs		Max. Marks	:	100

Q. No.		Max. Marks.	Course Outcome Number	Bloom Taxonomy
1.	i	2	CA 16.201.2	Apply
	ii.	2	CA 16.201.1	Understand
	iii.	2	CA 16.201.4	Analyse
	iv.	2	CA 16.201.4	Analyse
	v.	2	CA 16.201.6	Remember
	vi.	2	CA 16.201.1	Understand
	vii.	2	CA 16.201.2	Apply
	viii.	2	CA 16.201.1	Understand
	ix.	2	CA 16.201.3	Analyse
	x.	2	CA 16.201.5	Understand
2.	a.	8	CA 16.201.2	Apply
	b.	8	CA 16.201.5	Understand
3.	a.	10	CA 16.201.1	Understand
	b.	6	CA 16.201.4	Analyse
4.	a.	8	CA 16.201.4	Analyse
	b.	8	CA 16.201.6	Remember
5.	a.	8	CA 16.201.3	Apply
	b.	8	CA 16.201.3	Analyse
6.	a.	8	CA 16.201.6	Remember
	b.	8	CA 16.201.5	Understand
7.	a.	8	CA 16.201.5	Understand
	b.	8	CA 16.201.1	Understand
8.	a.	8	CA 16.201.5	Understand

	b.	8	CA 16.201.2	Apply

CO Number	Total CO Marks	%CO
CA 16.201.1	24	18.18
CA 16.201.2	20	15.15
CA 16.201.3	18	13.63
CA 16.201.4	18	13.63
CA 16.201.5	34	25.75
CA 16.201.6	18	13.63
Total	**132**	**100**

Taxonomy	Total Taxonomy Marks	% Taxonomy
Remember	18	13.63
Understand	58	43.93
Apply	28	21.21
Analyze	28	21.21
Evaluate	0	0
Create	0	0
Total	**132**	**100**

27/12/19

Faculty Name
Ms. Sonal Shukla

MODY UNIVERSITY
A Leading Women's University

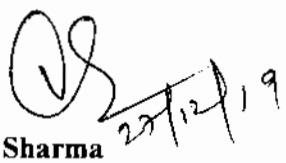
School of Engineering and Technology
End Term Examination – Autumn Semester (2019-20)

Year	:	I		Credits	:	3
Course Code	:	CA 19.101		Course Title	:	Computer Fundamentals
Time Allowed	:	3 Hrs		Max. Marks	:	100

Q. No.		Max. Marks.	Course Outcome Number	Bloom Taxonomy
1.	i	2	CA 19.101.1	Understand
	ii.	2	CA 19.101.1	Understand
	iii.	2	CA 19.101.2	Understand
	iv.	2	CA 19.101.2	Understand
	v.	2	CA 19.101.3	Apply
	vi.	2	CA 19.101.3	Apply
	vii.	2	CA 19.101.2	Understand
	viii.	2	CA 19.101.2	Understand
	ix.	2	CA 19.101.4	Evaluate
	x.	2	CA 19.101.5	Understand
2.	a.	8	CA 19.101.1	Understand
	b.	8	CA 19.101.2	Understand
3.	a.	8	CA 19.101.2	Understand
	b.	8	CA 19.101.2	Understand
4.	a.	8	CA 19.101.3	Apply
	b.	8	CA 19.101.3	Apply
5.	a.	16	CA 19.101.4	Evaluate
6.	a.	8	CA 19.101.5	Understand
	b.	8	CA 19.101.5	Understand
7.	a.	8	CA 19.101.5	Understand
	b.	8	CA 19.101.5	Understand
8.	a.	8	CA 19.101.4	Evaluate
	b.	8	CA 19.101.5	Understand

CO Number	Total CO Marks	%CO
CA 19.101.1	12	9
CA 19.101.2	32	24
CA 19.101.3	20	15
CA 19.101.4	26	20
CA 19.101.5	42	32
Total	**132**	**100**

Taxonomy	Total Taxonomy Marks	% Taxonomy
Remember	0	0
Understand	86	65
Apply	20	15
Analyze	0	0
Evaluate	26	20
Total	**132**	**100**



Vishal Sharma

MODY UNIVERSITY
A Leading Women's University

School of Engineering and Technology
End Term Practical Examination – Autumn Semester (2019-20)

Year	:	II	Credits	:	2
Course Code	:	CS 19.133	Course Title	:	Office Automation Lab
Time Allowed	:	3 Hrs	Max. Marks	:	40

Q. No.		Max. Marks.	Course Outcome Number	Bloom Taxonomy
1.	a.	10	CA 19.133.2	Apply
2.	a.	10	CA 19.133.3	Analyze
3.	a.	10	CA 19.133.4	Create
	b.	10	CA 19.133.5	Create

CO Number	Total CO Marks	%CO
CS 14.203.1	0	0
CS 14.203.2	10	25
CS 14.203.3	10	25
CS 14.203.4	10	25
CS 14.203.5	10	25
Total	**40**	**100**

Taxonomy	Total Taxonomy Marks	% Taxonomy
Remember	0	0
Understand	0	0
Apply	10	25
Analyze	10	25
Create	20	50
Total	**40**	**100**

27/12/19

Vishal Sharma

MODY UNIVERSITY
A Leading Women's University

School of Engineering and Technology
End Term Examination – Autumn Semester (2019-20)

Year	:	2019-2020		Credits	:	4
Course Code	:	CS14.301		Course Title	:	Design & Analysis of Algorithms
Time Allowed	:	3 Hrs		Max. Marks	:	100

Q. No.		Max. Marks.	Course Outcome Number	Bloom Taxonomy
1.	i	2	CS14.301.1	Remember
	ii.	2	**CS14.301.1**	Understand
	iii.	2	**CS14.301.2**	**Remember**
	iv.	2	CS14.301.3	Understand
	v.	2	CS14.301.3	Understand
	vi.	2	CS14.301.4	**Remember**
	vii.	2	CS14.301.4	Understand
	viii.	2	CS14.301.5	Understand
	ix.	2	CS14.301.5	**Apply**
	x.	2	CS14.301.6	**Apply**
2.	a.	8	CS14.301.1	Remember
	b.	8	**CS14.301.1**	Understand
3.	a.	8	CS14.301.1	Remember
	b.	8	**CS14.301.2**	Understand
4.	a.	8	CS14.301.2	Remember
	b.	8	**CS14.301.2**	Understand
5.	a.	8	**CS14.301.3**	Understand
	b.	8	**CS14.301.3**	Remember
6.	a.	8	**CS14.301.3**	Understand
	b.	8	**CS14.301.4**	Remember
7.	a.	8	CS14.301.4	**Understand**
	b.	8	CS14.301.5	**Apply**
8.	a.	8	CS14.301.5	**Apply**

	b.	8	CS14.301.6	**Apply**

CO Number	**Total CO Marks**	**%CO**
CS14.301.1	28	22
CS14.301.2	26	21
CS14.301.3	28	22
CS14.301.4	16	14
CS14.301.5	16	14
CS14.301.6	8	7
Total	**132**	**100%**

Taxonomy	**Total Taxonomy Marks**	**% Taxonomy**
Remember	46	35
Understand	58	44
Apply	28	21
Analyze	0	0
Evaluate	0	0
Create	0	0
Total	**132**	**100%**

31/12/19

Faculty Name Dr. Suneet Gupta

MODY UNIVERSITY
A Leading Women's University

School of Engineering and Technology
Mid Term Examination – Autumn Semester (2019-20)

Year	:	2019-2020		Credits	:	4
Course Code	:	CA14301		Course Title	:	Design & Analysis of Algorithms
Time Allowed	:	90 mins		Max. Marks	:	40

Q.No.		Max. Marks.	Course Outcome Number	Bloom Taxonomy
1.	a.	2	CS14.301.1	Remember
	b.	2	CS14.301.1	Remember
	c.	2	CS14.301.2	Understand
	d.	2	CS14.301.2	Understand
	e.	2	CS14.301.3	Understand
2.	a.	5	CS14.301.2	Remember
	b.	5	CS14.301.2	Understand
3.	a.	5	CS14.301.3	Apply
	b.	5	CS14.301.3	Apply
	c.	5	CS14.301.3	Apply
4.	a.	5	CS14.301.3	Apply
	b.	5	CS14.301.3	Apply
	c.	5	CS14.301.1	Remember

CO Number	Total CO Marks	%CO
CS.14.301.1	9	18
CS.14.301.2	14	28
CS.14.301.3	27	54
CS.14.301.4	0	0
CS.14.301.5	0	0
CS.14.301.6	0	0
Total	**50**	**100**

Taxonomy	Total Taxonomy Marks	% Taxonomy
Remember	14	28
Understand	11	22
Apply	25	50
Analyse	0	0
Evaluate	0	0
Create	0	0
Total	**50**	**100**

Faculty Name Dr. Suneet Gupta

MODY UNIVERSITY
A Leading Women's University

School of Engineering and Technology
End Term Examination – Autumn Semester (2019-20)

Year	:	2019-2020		Credits	:	1
Course Code	:	CS14.351		Course Title	:	Design & Analysis of Algorithms Lab
Time Allowed	:	2 Hrs		Max. Marks	:	40

Q. No.		Max. Marks.	Course Outcome Number	Bloom Taxonomy
1.		10	CS14.351.3	Understand
2.		10	CS14.351.5	Apply
3.	Viva	20	All	All

CO Number	Total CO Marks	%CO
CS14.351.1	4	10
CS14.351.2	12	30
CS14.351.3	12	30
CS14.351.4	4	10
CS14.351.5	4	10
CS14.351.6	4	10
Total	**40**	**100**

Taxonomy	Total Taxonomy Marks	% Taxonomy
Remember	4	10
Understand	12	30
Apply	12	30
Analyze	4	10
Evaluate	4	10
Create	4	10
Total		**100**

Faculty Name Dr. Suneet Gupta 27/12/19

MODY UNIVERSITY
A Leading Women's University

School of Engineering and Technology
End Term Examination – Autumn Semester (2019-20)

Year	:	2019-2020		Credits	:	3
Course Code	:	CS14.405		Course Title	:	Digital Image Processing
Time Allowed	:	3 Hrs		Max. Marks	:	100

Q. No.		Max. Marks.	Course Outcome Number	Bloom Taxonomy
1.	i	2	CS14.405.1	Remember
	ii.	2	**CS14.405.1**	Understand
	iii.	2	**CS14.405.2**	**Remember**
	iv.	2	CS14.405.3	Understand
	v.	2	CS14.405.3	Understand
	vi.	2	CS14.405.4	**Remember**
	vii.	2	CS14.405.4	Understand
	viii.	2	CS14.405.5	Understand
	ix.	2	CS14.405.5	**Apply**
	x.	2	CS14.405.6	**Apply**
2.	a.	8	CS14.405.1	Remember
	b.	8	**CS14.405.1**	Understand
3.	a.	8	CS14.405.1	Remember
	b.	8	**CS14.405.2**	Understand
4.	a.	8	CS14.405.2	Remember
	b.	8	**CS14.405.2**	Understand
5.	a.	8	**CS14.405.3**	Understand
	b.	8	**CS14.405.3**	Remember
6.	a.	8	**CS14.405.3**	Understand
	b.	8	**CS14.405.4**	Remember
7.	a.	8	CS14.405.4	**Understand**
	b.	8	CS14.405.5	**Apply**
8.	a.	8	CS14.405.5	**Apply**

	b.	8	CS14.405.6	**Apply**

CO Number	Total CO Marks	%CO
CS14.405.1	28	22
CS14.405.2	26	21
CS14.405.3	28	22
CS14.405.4	16	14
CS14.405.5	16	14
CS14.405.6	8	7
Total	**132**	**100%**

Taxonomy	Total Taxonomy Marks	% Taxonomy
Remember	46	35
Understand	58	44
Apply	28	21
Analyze	0	0
Evaluate	0	0
Create	0	0
Total	**132**	**100%**

Faculty Name Dr. Ajay Kumar Singh

MODY UNIVERSITY
A Leading Women's University

School of Engineering and Technology
Mid Term Examination – Spring Semester (2019-20)

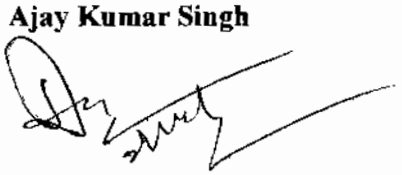
Year	:	2019-2020		Credits	:	3
Course Code	:	CS 14.405		Course Title	:	Digital Image Processing
Time Allowed	:	90 mins		Max. Marks	:	40

Q.No.		Max. Marks.	Course Outcome Number	Bloom Taxonomy
1.	a.	2	CS14.405.1	Remember
	b.	2	CS14.405.1	Remember
	c.	2	CS14.405.2	Understand
	d.	2	CS14.405.2	Understand
	e.	2	CS14.405.3	Understand
2.	a.	5	CS14.405.2	Remember
	b.	5	CS14.405.2	Understand
3.	a.	5	CS14.405.3	Apply
	b.	5	CS14.405.3	Apply
	c.	5	CS14.405.3	Apply
4.	a.	5	CS14.405.3	Apply
	b.	5	CS14.405.3	Apply
	c.	5	CS14.405.1	Remember

CO Number	Total CO Marks	%CO
CS.14.405.1	9	18
CS.14.405.2	14	28
CS.14.405.3	27	54
CS.14.405.4	0	0
CS.14.405.5	0	0
CS.14.405.6	0	0
Total	**50**	**100**

Taxonomy	Total Taxonomy Marks	% Taxonomy
Remember	14	28
Understand	11	22
Apply	25	50
Analyse	0	0
Evaluate	0	0
Create	0	0
Total	**50**	**100**

Faculty Name Dr. Ajay Kumar Singh



MODY UNIVERSITY
A Leading Women's University

School of Engineering and Technology
Mid Term Examination – Spring Semester (2019-20)

Year	:	II			Credits	:	3
Course Code	:	CA16.201			Course Title	:	Computer Architecture
Time Allowed	:	1-1/2 Hr			Max. Marks	:	40

Q.No.		Max. Marks.	Course Outcome Number	Bloom Taxonomy
1.	a.	2	CA 16.201.1	Understand
	b.	2	.CA 16.201.1	Understand
	c.	2	CA 16.201.6	Remember
	d.	2	CA 16.201.2	Apply
	e.	2	CA 16.201.6	Remember
2.	a.	5	CA 16.201.6	Remember
	b.	5	CA 16.201.2	Apply
3.	a.	5	CA 16.201.1	Understand
	b.	5	CA 16.201.2	Apply
	c.	5	CA 16.201.2	Apply
4.	a.	5	CA 16.201.1	Understand
	b.	5	CA 16.201.6	Remember
	c.	5	CA 16.201.2	Apply

CO Number	Total CO Marks	%CO
CA 16.201.1	14	28
CA 16.201.2	22	44
CA 16.201.3	0	0
CA 16.201.4	0	0

Taxonomy	Total Taxonomy Marks	% Taxonomy
Remember	14	28
Understand	14	28
Apply	22	44
Analyse	0	0

CA 16.201.5	0	
CA 16.201.6	14	28
Total	**50**	

Evaluate	0	0
Create	0	0
Total	**50**	

Faculty Name
Ms. Sonal Shukla 25/5/20

MODY UNIVERSITY
A Leading Women's University

School of Engineering and Technology
EndTerm Examination–Autumn Semester (2019-20)

Year	:	2019-2020		Credits	:	4
Course Code	:	CS19.101		Course Title	:	Programming Language
Time Allowed	:	3		Max. Marks	:	100

Q.No.		Max. Marks.	Course Outcome Number	Bloom Taxonomy
1.	a.	2	CS19.101.2	Understand
	b.	2	CS19.101.2	Understand
	c.	2	CS19.101.3	Create
	d.	2	CS19.101.5	Analyze
	e.	2	CS19.101.5	Analyze
	f.	2	CS19.101.5	Analyze
	g.	2	CS19.101.4	Create
	h.	2	CS19.101.2	Understand
	i.	2	CS19.101.2	Understand
	j.	2	CS19.101.6	Apply
2.	a.	8	CS19.101.1	Understand
	b.	8	CS19.101.2	Understand
3.	a.	8	CS19.101.3	Create
	b.	8	CS19.101.3	Create
4.	a.	8	CS19.101.4	Create
	b.	8	CS19.101.4	Create
5	a.	8	CS19.101.5	Analyze
	b.	8	CS19.101.6	Apply
6	a.	8	CS19.101.6	Apply
	b.	8	CS19.101.2	Understand
7	a.	8	CS19.101.6	Apply
	b.	8	CS19.101.4	Create

8	a.	4	CS19.101.6	**Apply**
	b.	4	CS19.101.3	**Create**
	c.	4	CS19.101.4	**Create**
	d.	4	CS19.101.2	**Understand**

CO Number	Total CO Marks	%CO
CS19.101.1	8	6
CS19.101.2	28	21
CS19.101.3	22	17
CS19.101.4	30	23
CS19.101.5	14	11
CS19.101.6	30	22
Total	**132**	**100**

Taxonomy	Total Taxonomy Marks	% Taxonomy
Remember	0	0
Understand	36	27
Apply	30	23
Analyze	14	11
Evaluate	0	0
Create	52	39
Total	**132**	**100**

Faculty Name

Siddhanta Kumar Singh

MODY UNIVERSITY
A Leading Women's University

School of Engineering and Technology
End Term Exam – Autumn Semester (2019-20)

Year	:	2019-2020		Credits	:	2
Course Code	:	CS19.151		Course Title	:	Programming Language Lab
Time Allowed	:	2 Hours		Max. Marks	:	30+10

Q.No.	Max. Marks.	Course Outcome Number	Bloom Taxonomy
1.	15	CS14.101.3	Create
2	15	CS14.101.6	Apply

CO Number	Total CO Marks	%CO
CS19.151.1	0	0
CS19.151.2	0	0
CS19.151.3	15	50
CS19.151.4	0	0
CS19.151.5	0	0
CS19.151.6	15	50
Total	**30**	**100**

Taxonomy	Total Taxonomy Marks	% Taxonomy
Remember	0	0
Understand	0	0
Apply	15	50
Analyze	0	0
Evaluate	0	0
Create	15	50
Total	**30**	**100**

Faculty Name

Siddhanta Kumar Singh 31/10/2019

MODY UNIVERSITY
A Leading Women's University

School of Engineering and Technology
End Term Examination–Autumn Semester (2019-20)

Year	:	III		Credits	:	03
Course Code	:	CS 14.303		Course Title	:	Operating System
Time Allowed	:	3 Hr		Max. Marks	:	100

Q.No.		Max. Marks.	Course Outcome Number	Bloom Taxonomy
1.	i	2	CS 14.303.3	Analyze
	ii	2	CS 14.303.4	Create
	iii	2	CS 14.303.1	Evaluate
	iv	2	CS 14.303.3	Analyze
	v	2	CS 14.303.4	Create
	vi	2	CS 14.303.5	Apply
	vii	2	CS 14.303.4	Create
	viii	2	CS 14.303.1	Evaluate
	ix	2	CS 14.303.3	Analyze
	x	2	CS 14.303.4	Create
2.	a.	10	CS 14.303.5	Apply
	b.	6	CS 14.303.4	Create
3.	a.	8	CS 14.303.2	Apply
	b.	8	CS 14.303.4	Create
4.	a.	8	CS 14.303.2	Apply
	b.	8	CS 14.303.4	Create
5.	a.	8	CS 14.303.1	Evaluate
	b.	8	CS 14.303.2	Apply
6.	a.	12	CS 14.303.3	Analyze
	b.	4	CS 14.303.1	Evaluate
7.	a.	8	CS 14.303.3	Analyze
	b.	8	CS 14.303.5	Apply
8.	a,b,c	16	CS 14.303.6	Understand

CO Number	Total CO Marks	%CO
CS 14.303.1	16	12%
CS 14.303.2	24	18%
CS 14.303.3	26	20%

Taxonomy	Total Taxonomy Marks	% Taxonomy
Remember	0	0
Understand	16	12%
Apply	44	33%

CS 14.303.4	30	23%
CS 14.303.5	20	15%
CS14.303.6	16	12%
Total	**132**	

Analyze	26	20%
Evaluate	16	12%
Create	30	23%
Total	**132**	

Faculty Name: Dr. Anil Saroliya 27/12/19

MODY UNIVERSITY
A Leading Women's University

School of Engineering and Technology
End Term Examination – Autumn Semester (2019-20)

Year	:	II		Credits	:	3
Course Code	:	CS 14.203		Course Title	:	Data Structure
Time Allowed	:	3 Hrs		Max. Marks	:	100

Q. No.		Max. Marks.	Course Outcome Number	Bloom Taxonomy
1.	i	2	CS 14.203.2	Apply
	ii.	2	CS 14.203.4	Analyze
	iii.	2	CS 14.203.4	Analyze
	iv.	2	CS 14.203.2	Apply
	v.	2	CS 14.203.5	Understand
	vi.	2	CS 14.203.4	Analyze
	vii.	2	CS 14.203.5	Understand
	viii.	2	CS 14.203.2	Apply
	ix.	2	CS 14.203.5	Understand
	x.	2	CS 14.203.3	Analyze
2.	a.	8	CS 14.203.2	Apply
	b.	8	CS 14.203.2	Apply
3.	a.	8	CS 14.203.2	Apply
	b.	8	CS 14.203.1	Understand
4.	a.	8	CS 14.203.2	Apply
	b.	8	CS 14.203.2	Apply
5.	a.	8	CS 14.203.3	Analyze
	b.	8	CS 14.203.3	Analyze
6.	a.	8	CS 14.203.4	Analyze
	b.	8	CS 14.203.4	Analyze
7.	a.	8	CS 14.203.5	Understand
	b.	8	CS 14.203.5	Understand
8.	a.	8	CS 14.203.5	Understand
	b.	8	CS 14.203.5	Understand

CO Number	Total CO Marks	%CO
CS 14.203.1	8	6
CS 14.203.2	46	35
CS 14.203.3	18	14
CS 14.203.4	22	17
CS 14.203.5	38	28
Total	**132**	**100**

Taxonomy	Total Taxonomy Marks	% Taxonomy
Remember	0	0
Understand	46	35
Apply	46	35
Analyze	40	30
Evaluate	0	0
Total	**132**	**100**

Vishal Sharma

MODY UNIVERSITY
A Leading Women's University

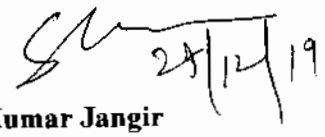
School of Engineering and Technology
End Term Examination – Autumn Semester (2019-20)

Year	:	III		Credits	:	3
Course Code	:	CS 14.305		Course Title	:	Logic in Computer Science
Time Allowed	:	3 Hrs		Max. Marks	:	100

Q. No.		Max. Marks.	Course Outcome Number	Bloom Taxonomy
1.	i	2	CS 14.305.1	Understand
	ii.	2	CS 14.305.1	Understand
	iii.	2	CS 14.305.1	Understand
	iv.	2	CS 14.305.2	Apply
	v.	2	CS 14.305.2	Apply
	vi.	2	CS 14.305.2	Apply
	vii.	2	CS 14.305.2	Apply
	viii.	2	CS 14.305.3	Analyze
	ix.	2	CS 14.305.1	Understand
	x.	2	CS 14.305.1	Understand
2.	a.	8	CS 14.305.1	Understand
	b.	8	CS 14.305.1	Understand
3.	a.	8	CS 14.305.1	Understand
	b.	8	CS 14.305.2	Apply
4.	a.	8	CS 14.305.2	Apply
	b.	8	CS 14.305.2	Understand
5.	a.	8	CS 14.305.1	Understand
	b.	8	CS 14.305.2	Apply
6.	a.	8	CS 14.305.2	Apply
	b.	8	CS 14.305.2	Apply
7.	a.	8	CS 14.305.2	Apply
	b.	8	CS 14.305.3	Analyze
8.	a.	8	CS 14.305.3	Analyze
	b.	8	CS 14.305.3	Analyze

CO Number	Total CO Marks	%CO
CA 19.101.1	50	37.88
CA 19.101.2	56	42.43
CA 19.101.3	26	19.69
Total	**132**	**100**

Taxonomy	Total Taxonomy Marks	% Taxonomy
Remember	0	0
Understand	50	37.88
Apply	56	42.43
Analyze	26	19.69
Evaluate		
Total	**132**	**100**



Sunil Kumar Jangir

MODY UNIVERSITY
A Leading Women's University

School of Engineering and Technology
End Term Examination – Autumn Semester (2019-20)

Year	:	**2019-2020**		Credits	:	**1**
Course Code	:	**CS14.455**		Course Title	:	**Digital Image Processing Lab**
Time Allowed	:	**2 Hrs**		Max. Marks	:	**40**

Q. No.		Max. Marks.	Course Outcome Number	Bloom Taxonomy
1.		10	CS14.455.3	Understand
2.		10	CS14.455.5	Apply
3.	Viva	20	All	All

CO Number	Total CO Marks	%CO
CS14.455.1	4	10
CS14.455.2	12	30
CS14.455.3	12	30
CS14.455.4	4	10
CS14.455.5	4	10
CS14.455.6	4	10
Total	**40**	**100**

Taxonomy	Total Taxonomy Marks	% Taxonomy
Remember	4	10
Understand	12	30
Apply	12	30
Analyze	4	10
Evaluate	4	10
Create	4	10
Total		**100**

Faculty Name Dr. Ajay Kumar Singh

MODY UNIVERSITY
A Leading Women's University

End ~~Mid~~ School of Engineering and Technology
Term Examination – Autumn Semester (2019-20)

Year	:	BCA III		Credits	:	4
Course Code	:	ET465		Course Title	:	Agile Software Development
Time Allowed	:	3 hrs		Max. Marks	:	100

Q.No.		Max. Marks.	Course Outcome Number	Bloom Taxonomy
1.	a.	2	6	Create
	b.	2	6	Create
	c.	2	1	Remember
	d.	2	5	Understand
	e.	2	3	Analyse
	f	2	5	Understand
	g	2	5	Understand
	h	2	1	Remember
	i	2	3	Analyse
	j	2	2	Apply
2.	a.	8	1	Remember
	b.	8	1	Remember
3.	a.	8	5	Understand
	b.	8	2	Apply
4	a	8	5	Understand
	b	8	6	Create
5	a	8	4	Evaluate
	b	8	4	Evaluate
6	a	8	1	Remember
	b	8	5	Understand
7	a	8	6	Create
	b	8	3	Analyse

8	a	8	5	**Understand**
	b	8	2	**Apply**

CO Number	**Total CO Marks**	**%CO**
Course Code.1	32	23
Course Code.2	14	11
Course Code.3	12	10
Course Code.4	16	12
Course Code.5	34	26
Course Code.6	24	18
Total	**132**	**100**

Taxonomy	**Total Taxonomy Marks**	**% Taxonomy**
Remember	28	23
Understand	18	11
Apply	16	10
Analyse	16	12
Evaluate	34	26
Create	20	18
Total	**132**	**100**

31/10/19

Faculty Name : Manmohan Sharma

MODY UNIVERSITY
A Leading Women's University

School of Engineering and Technology
End Term Examination – Autumn Semester (2019-20)

	Year	:	II		Credits	:	3
	Course Code	:	CA16.201		Course Title	:	COMPUTER ARCHITECTURE
	Time Allowed	:	3 Hrs		Max. Marks	:	100

Q. No.		Max. Marks.	Course Outcome Number	Bloom Taxonomy
1.	i	2	CA 16.201.2	Apply
	ii.	2	CA 16.201.1	Understand
	iii.	2	CA 16.201.4	Analyse
	iv.	2	CA 16.201.4	Analyse
	v.	2	CA 16.201.6	Remember
	vi.	2	CA 16.201.1	Understand
	vii.	2	CA 16.201.2	Apply
	viii.	2	CA 16.201.1	Understand
	ix.	2	CA 16.201.3	Analyse
	x.	2	CA 16.201.5	Understand
2.	a.	8	CA 16.201.2	Apply
	b.	8	CA 16.201.5	Understand
3.	a.	10	CA 16.201.1	Understand
	b.	6	CA 16.201.4	Analyse
4.	a.	8	CA 16.201.4	Analyse
	b.	8	CA 16.201.6	Remember
5.	a.	8	CA 16.201.3	Apply
	b.	8	CA 16.201.3	Analyse
6.	a.	8	CA 16.201.6	Remember
	b.	8	CA 16.201.5	Understand
7.	a.	8	CA 16.201.5	Understand
	b.	8	CA 16.201.1	Understand
8.	a.	8	CA 16.201.5	Understand

	b.	8	CA 16.201.2	Apply

CO Number	Total CO Marks	%CO
CA 16.201.1	24	18.18
CA 16.201.2	20	15.15
CA 16.201.3	18	13.63
CA 16.201.4	18	13.63
CA 16.201.5	34	25.75
CA 16.201.6	18	13.63
Total	**132**	**100**

Taxonomy	Total Taxonomy Marks	% Taxonomy
Remember	18	13.63
Understand	58	43.93
Apply	28	21.21
Analyze	28	21.21
Evaluate	0	0
Create	0	0
Total	**132**	**100**

27/12/19

Faculty Name
Ms. Sonal Shukla

MODY UNIVERSITY
A Leading Women's University

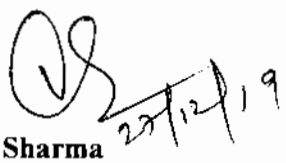
School of Engineering and Technology
End Term Examination – Autumn Semester (2019-20)

Year	:	I		Credits	:	3
Course Code	:	CA 19.101		Course Title	:	Computer Fundamentals
Time Allowed	:	3 Hrs		Max. Marks	:	100

Q. No.		Max. Marks.	Course Outcome Number	Bloom Taxonomy
1.	i	2	CA 19.101.1	Understand
	ii.	2	CA 19.101.1	Understand
	iii.	2	CA 19.101.2	Understand
	iv.	2	CA 19.101.2	Understand
	v.	2	CA 19.101.3	Apply
	vi.	2	CA 19.101.3	Apply
	vii.	2	CA 19.101.2	Understand
	viii.	2	CA 19.101.2	Understand
	ix.	2	CA 19.101.4	Evaluate
	x.	2	CA 19.101.5	Understand
2.	a.	8	CA 19.101.1	Understand
	b.	8	CA 19.101.2	Understand
3.	a.	8	CA 19.101.2	Understand
	b.	8	CA 19.101.2	Understand
4.	a.	8	CA 19.101.3	Apply
	b.	8	CA 19.101.3	Apply
5.	a.	16	CA 19.101.4	Evaluate
6.	a.	8	CA 19.101.5	Understand
	b.	8	CA 19.101.5	Understand
7.	a.	8	CA 19.101.5	Understand
	b.	8	CA 19.101.5	Understand
8.	a.	8	CA 19.101.4	Evaluate
	b.	8	CA 19.101.5	Understand

CO Number	Total CO Marks	%CO
CA 19.101.1	12	9
CA 19.101.2	32	24
CA 19.101.3	20	15
CA 19.101.4	26	20
CA 19.101.5	42	32
Total	**132**	**100**

Taxonomy	Total Taxonomy Marks	% Taxonomy
Remember	0	0
Understand	86	65
Apply	20	15
Analyze	0	0
Evaluate	26	20
Total	**132**	**100**



Vishal Sharma

MODY UNIVERSITY
A Leading Women's University

School of Engineering and Technology
End Term Practical Examination – Autumn Semester (2019-20)

Year	:	II	Credits	:	2
Course Code	:	CS 19.133	Course Title	:	Office Automation Lab
Time Allowed	:	3 Hrs	Max. Marks	:	40

Q. No.		Max. Marks.	Course Outcome Number	Bloom Taxonomy
1.	a.	10	CA 19.133.2	Apply
2.	a.	10	CA 19.133.3	Analyze
3.	a.	10	CA 19.133.4	Create
	b.	10	CA 19.133.5	Create

CO Number	Total CO Marks	%CO
CS 14.203.1	0	0
CS 14.203.2	10	25
CS 14.203.3	10	25
CS 14.203.4	10	25
CS 14.203.5	10	25
Total	**40**	**100**

Taxonomy	Total Taxonomy Marks	% Taxonomy
Remember	0	0
Understand	0	0
Apply	10	25
Analyze	10	25
Create	20	50
Total	**40**	**100**

27/12/19

Vishal Sharma

MODY UNIVERSITY
A Leading Women's University

School of Engineering and Technology
End Term Examination – Autumn Semester (2019-20)

Year	:	2019-2020		Credits	:	4
Course Code	:	CS14.301		Course Title	:	Design & Analysis of Algorithms
Time Allowed	:	3 Hrs		Max. Marks	:	100

Q. No.		Max. Marks.	Course Outcome Number	Bloom Taxonomy
1.	i	2	CS14.301.1	Remember
	ii.	2	**CS14.301.1**	Understand
	iii.	2	**CS14.301.2**	**Remember**
	iv.	2	CS14.301.3	Understand
	v.	2	CS14.301.3	Understand
	vi.	2	CS14.301.4	**Remember**
	vii.	2	CS14.301.4	Understand
	viii.	2	CS14.301.5	Understand
	ix.	2	CS14.301.5	**Apply**
	x.	2	CS14.301.6	**Apply**
2.	a.	8	CS14.301.1	Remember
	b.	8	**CS14.301.1**	Understand
3.	a.	8	CS14.301.1	Remember
	b.	8	**CS14.301.2**	Understand
4.	a.	8	CS14.301.2	Remember
	b.	8	**CS14.301.2**	Understand
5.	a.	8	**CS14.301.3**	Understand
	b.	8	**CS14.301.3**	Remember
6.	a.	8	**CS14.301.3**	Understand
	b.	8	**CS14.301.4**	Remember
7.	a.	8	CS14.301.4	**Understand**
	b.	8	CS14.301.5	**Apply**
8.	a.	8	CS14.301.5	**Apply**

	b.	8	CS14.301.6	**Apply**

CO Number	**Total CO Marks**	**%CO**
CS14.301.1	28	22
CS14.301.2	26	21
CS14.301.3	28	22
CS14.301.4	16	14
CS14.301.5	16	14
CS14.301.6	8	7
Total	**132**	**100%**

Taxonomy	**Total Taxonomy Marks**	**% Taxonomy**
Remember	46	35
Understand	58	44
Apply	28	21
Analyze	0	0
Evaluate	0	0
Create	0	0
Total	**132**	**100%**

31/12/19

Faculty Name Dr. Suneet Gupta

MODY UNIVERSITY
A Leading Women's University

School of Engineering and Technology
Mid Term Examination – Autumn Semester (2019-20)

Year	:	2019-2020		Credits	:	4
Course Code	:	CA14301		Course Title	:	Design & Analysis of Algorithms
Time Allowed	:	90 mins		Max. Marks	:	40

Q.No.		Max. Marks.	Course Outcome Number	Bloom Taxonomy
1.	a.	2	CS14.301.1	Remember
	b.	2	CS14.301.1	Remember
	c.	2	CS14.301.2	Understand
	d.	2	CS14.301.2	Understand
	e.	2	CS14.301.3	Understand
2.	a.	5	CS14.301.2	Remember
	b.	5	CS14.301.2	Understand
3.	a.	5	CS14.301.3	Apply
	b.	5	CS14.301.3	Apply
	c.	5	CS14.301.3	Apply
4.	a.	5	CS14.301.3	Apply
	b.	5	CS14.301.3	Apply
	c.	5	CS14.301.1	Remember

CO Number	Total CO Marks	%CO
CS.14.301.1	9	18
CS.14.301.2	14	28
CS.14.301.3	27	54
CS.14.301.4	0	0
CS.14.301.5	0	0
CS.14.301.6	0	0
Total	**50**	**100**

Taxonomy	Total Taxonomy Marks	% Taxonomy
Remember	14	28
Understand	11	22
Apply	25	50
Analyse	0	0
Evaluate	0	0
Create	0	0
Total	**50**	**100**

Faculty Name Dr. Suneet Gupta

MODY UNIVERSITY
A Leading Women's University

School of Engineering and Technology
End Term Examination – Autumn Semester (2019-20)

Year	:	2019-2020		Credits	:	1
Course Code	:	CS14.351		Course Title	:	Design & Analysis of Algorithms Lab
Time Allowed	:	2 Hrs		Max. Marks	:	40

Q. No.		Max. Marks.	Course Outcome Number	Bloom Taxonomy
1.		10	CS14.351.3	Understand
2.		10	CS14.351.5	Apply
3.	Viva	20	All	All

CO Number	Total CO Marks	%CO
CS14.351.1	4	10
CS14.351.2	12	30
CS14.351.3	12	30
CS14.351.4	4	10
CS14.351.5	4	10
CS14.351.6	4	10
Total	**40**	**100**

Taxonomy	Total Taxonomy Marks	% Taxonomy
Remember	4	10
Understand	12	30
Apply	12	30
Analyze	4	10
Evaluate	4	10
Create	4	10
Total		**100**

Faculty Name Dr. Suneet Gupta 27/12/19

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End Term Examination – Autumn Semester (2019-20)

Year	:	2019-2020		Credits	:	3
Course Code	:	CS14.405		Course Title	:	Digital Image Processing
Time Allowed	:	3 Hrs		Max. Marks	:	100

Q. No.		Max. Marks.	Course Outcome Number	Bloom Taxonomy
1.	i	2	CS14.405.1	Remember
	ii.	2	**CS14.405.1**	Understand
	iii.	2	**CS14.405.2**	**Remember**
	iv.	2	CS14.405.3	Understand
	v.	2	CS14.405.3	Understand
	vi.	2	CS14.405.4	**Remember**
	vii.	2	CS14.405.4	Understand
	viii.	2	CS14.405.5	Understand
	ix.	2	CS14.405.5	**Apply**
	x.	2	CS14.405.6	**Apply**
2.	a.	8	CS14.405.1	Remember
	b.	8	**CS14.405.1**	Understand
3.	a.	8	CS14.405.1	Remember
	b.	8	**CS14.405.2**	Understand
4.	a.	8	CS14.405.2	Remember
	b.	8	**CS14.405.2**	Understand
5.	a.	8	**CS14.405.3**	Understand
	b.	8	**CS14.405.3**	Remember
6.	a.	8	**CS14.405.3**	Understand
	b.	8	**CS14.405.4**	Remember
7.	a.	8	CS14.405.4	**Understand**
	b.	8	CS14.405.5	**Apply**
8.	a.	8	CS14.405.5	**Apply**

	b.	8	CS14.405.6	**Apply**

CO Number	Total CO Marks	%CO
CS14.405.1	28	22
CS14.405.2	26	21
CS14.405.3	28	22
CS14.405.4	16	14
CS14.405.5	16	14
CS14.405.6	8	7
Total	**132**	**100%**

Taxonomy	Total Taxonomy Marks	% Taxonomy
Remember	46	35
Understand	58	44
Apply	28	21
Analyze	0	0
Evaluate	0	0
Create	0	0
Total	**132**	**100%**

Faculty Name Dr. Ajay Kumar Singh

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Mid Term Examination – Spring Semester (2019-20)

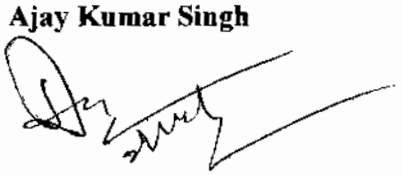
Year	:	2019-2020		Credits	:	3
Course Code	:	CS 14.405		Course Title	:	Digital Image Processing
Time Allowed	:	90 mins		Max. Marks	:	40

Q.No.		Max. Marks.	Course Outcome Number	Bloom Taxonomy
1.	a.	2	CS14.405.1	Remember
	b.	2	CS14.405.1	Remember
	c.	2	CS14.405.2	Understand
	d.	2	CS14.405.2	Understand
	e.	2	CS14.405.3	Understand
2.	a.	5	CS14.405.2	Remember
	b.	5	CS14.405.2	Understand
3.	a.	5	CS14.405.3	Apply
	b.	5	CS14.405.3	Apply
	c.	5	CS14.405.3	Apply
4.	a.	5	CS14.405.3	Apply
	b.	5	CS14.405.3	Apply
	c.	5	CS14.405.1	Remember

CO Number	Total CO Marks	%CO
CS.14.405.1	9	18
CS.14.405.2	14	28
CS.14.405.3	27	54
CS.14.405.4	0	0
CS.14.405.5	0	0
CS.14.405.6	0	0
Total	**50**	**100**

Taxonomy	Total Taxonomy Marks	% Taxonomy
Remember	14	28
Understand	11	22
Apply	25	50
Analyse	0	0
Evaluate	0	0
Create	0	0
Total	**50**	**100**

Faculty Name Dr. Ajay Kumar Singh



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Course Outcome

Course Name: Multimedia and Animation Lab
Course Code: CA16.332
Credit Hours: 3
Semester, Year: Spring, III
Branch: BCA
Prerequisite: C programing language

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
CA 16.332.1	Understand the tools of Flash editor, concept of keys and key frames	Understand
CA 16.332.2	Understand layers and masking layers	Understand
CA 16.332.3	Implement layering and edit images	Apply
CA 16.332.4	Understand the features of graphics and buttons	Understand
CA 16.332.5	Implement graphics techniques to create small movie clips	Apply
CA 16.332.6	Perform animation of text morphing.	Apply

Sonal Shukla 12/1/20

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Course Outcome

Course Name: Computer networks
Course Code: CA 16.204

Credit Hours: 4
Semester, Year: 4th, 2nd
Branch: BCA
Prerequisite:

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
CA 16.204.1	Understand basic concept of computer networks and layers architecture	Understand
CA 16.204.2	Analyze the concepts of physical layer	Analyze
CA 16.204.3	Understand the functionality of data link layer and error detection techniques	Understand
CA 16.204.4	Analyze the working mechanism of IP protocols, routing algorithms.	Analyze
CA 16.204.5	Analyze the functioning of various protocols at application layer like SMTP, POP3, HTTP, and FTP.	Analyze

Faculty Name : Dr. Somil Jain

11/04/2020

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Course Outcome

Course Name: Java Programming
Course Code: CA 16.210

Credit Hours: 4
Semester, Year: 4th Semester, 2nd Year
Branch: BCA
Prerequisite: Nil

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
CA 16.210.1	Understand Java Byte Code and Java Class Libraries	Understand
CA 16.210.2	Design programs using different loops and Arrays	Apply
CA 16.210.3	Judge issues related to the definition, creation and usage of classes, objects and methods	Evaluate
CA 16.210.4	String and its methods classification	Analyze
CA 16.210.5	Create multilevel hierarchy and constructors.	Create
CA 16.210.6	Test access control identifies, automatic documentation through comments, error exception handling.	Evaluate
CA 16.210.7	Develop and Implement Applet programs using the in-built Java API and the Java standard class library.	Apply

Dr. Uma Kumari

Uma
12/2/20

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Course Outcome

Course Name: Multimedia Technology
Course Code: CA16.304
Credit Hours: 3
Semester, Year: Spring, III
Branch: BCA
Prerequisite: Computer Graphics

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
CA 16.304.1	Understand the concept of multimedia and the requirements of any good multimedia.	Understand
CA 16.304.2	Learn the Hardware connections and storage	Understand
CA 16.304.3	Understand the working of software tools to implements different multimedia.	Apply
CA 16.304.4	Study the production and editing techniques used for multimedia.	Analyse
CA 16.304.5	Implementation of data compression techniques on input stream for efficient data transfer.	Analyse
CA 16.304.6	Understand the design considerations of multimedia to be used and wab pages	Understand

12/1/20
Sonal Shukla

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Course Outcome

Course Name: Operating System
Course Code: CA 19.102
Credit Hours: 3
Semester, Year: Spring, Ist Year
Branch: BCA
Prerequisite: Basic concepts of computers, algorithms, data structures

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
CA 19.102.1	Identify and understand the basic concepts and functions of Modern operating systems.	Understand
CA 19.102.2	Identify and estimate process management activities including implementation of various scheduling algorithm, deadlock prevention, thread management	Apply
CA 19.102.3	Examine the requirement for process synchronization and coordination handled by operating system	Analyze
CA 19.102.4	Apply concepts of memory management including virtual Memory and Page Replacement to the issues that occur in Real time applications	Apply
CA 19.102.5	Solve issues related to file system interface, implementation, disk management,	Apply

14/1/2024
Dr. Prateek Bhanti

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Course Outcome

Course Name: Cloud Computing
Course Code: ET 471
Credit Hours: 40
Semester, Year: IV, BCA -II
Branch:
Prerequisite: NiI

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
Course code.1	Understand the evolution of cloud computing, its need and characteristics	Understand
Course code.2	Analyse the basic cloud deployment and service models	Analyse
Course code.3	Describe the definition of virtualization technology	Evaluate
Course code.4	Illustrate EC2 services of Amazon web services	Apply
Course code.5	Describe private cloud. Its advantages and disadvantage.	Remember
Course code.6	Categorize different private cloud vendors and services provided by them.	Create

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Course Outcome

Course Name: Computer Graphics
Course Code: CA 16.206
Credit Hours: 4
Semester, Year: Spring Sem., 2 yr.
Branch: BCA
Prerequisite: None

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
CA16.206.1	Understand about different color models and application areas.	Remember
CA16.206.2	Understand the working of different Graphics Hardware like Display Devices-CRT & Flat.	Understand
CA16.206.3	Draw simple graphics on Raster Scan Displays.	Apply
CA16.206.4	Draw colored complex graphic objects	Apply
CA16.206.5	Make transformations like Translation, Scaling and rotation etc. on graphic objects.	Apply
CA16.206.6	Understand basics of animation and can create simple animations	Understand/Apply

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Course Outcome

Course Name: System Analysis and Design
Course Code: CA19.106
Credit Hours: 3
Semester, Year: Spring I
Branch: BCA
Prerequisite: Nil

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
CA19.106.1	Understand the system and its characteristics.	Understand
CA19.106.2	Describe the five phases of the systems development life cycle (SDLC)	Understand
CA19.106.3	System Analysis, analyst and determine the feasibility of the system.	Apply
CA19.106.4	Illustrate the structure analysis tools and Classification of Input /Output forms.	Analysis
CA19.106.5	Classify and evaluate the cost and benefit of the system. Demonstrate the system testing techniques and pros and cons of structure analysis tools.	Evaluate
CA19.106.6	Create logical and physical design of the system with different designing tools.	Create

13/1/2020

Faculty Name: Dr Sanjeev Patwa

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Course Outcome

Course Name: Software Engineering
Course Code: CS 14.332
Credit Hours: 3
Semester, Year: Spring, III
Branch: BTech (CS)
Prerequisite: Programming Language (CS 14.101)

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
CS 14.332.1	Understand the concept of software Engineering, software Process Model and Quality Standards.	Understand
CS 14.332.2	Analyse Software requirements, Design principles and classification of designing techniques.	Analyse
CS 14.332.3	Apply proper process model and software team for specific software problem.	Apply
CS 14.332.4	Evaluate Several testing techniques and evaluate project size with estimation techniques.	Evaluate
CS 14.332.5	Formulate test case design for different projects and create different designing diagrams.	Create

Faculty Name: Dr Sanjeev Patwa 13/1/2016

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Course Outcome

Course Name: Communication Skills
Course Code: UC19.102

Credit Hours: 2
Semester, Year: Spring-II, First Year
Branch: ALL/ Common to all Branches
Prerequisite:

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
Course code.1	To understand the stages of technical writing process (prewriting/writing/rewriting) and apply them to their professional writing tasks.	Understand
Course code.2	To make them able to produce the clear and accurate documents related to their workplace's writing tasks.	Apply
Course code.3	To demonstrate the critical and innovation thinking.	Understand
Course code.4	To understand and evaluate key theoretical approaches used in the interdisciplinary field of communication.	Evaluate
Course code.5	To find, use, and evaluate primary academic writing associated with the communication discipline.	Apply
Course code.6	To develop knowledge, skills, and judgment around human communication that facilitates their ability to work collaboratively with others.	Understand

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Faculty Name

Dr. Priti Vyas & Dr. Shruti Soni

12/01/20

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Course Outcome

Course Name: Management Information Systems
Course Code: CA 19.608
Credit Hours: 3
Semester, Year: IV,II
Branch: MCA
Prerequisite: CA 19.106 (System Analysis and Design)

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
CA 19.608.1	A support to the management, goals, objectives and target, MIS for a digital firm, E-Business Enterprise: A digital firm-organization of business in digital firm, E-business, Ecommerce, real time enterprise	Understand
CA 19.608.2	Applications in manufacturing sector-personnel management, financial management, production management, raw material management, marketing management, applications in service sector	Apply
CA 19.608.3	Relationship between Information and Knowledge	Evaluate
CA 19.608.4	Analysis and Design- System concepts, system control, types of system, handling system complexity, system development model	Analyze
CA 19.608.5	Concept of corporate planning, essentiality of strategic planning, development of business strategies, types of strategies, short range planning, tools of planning,MIS: Strategic business planning	Remember
CA 19.608.6	Development and implementation of the MIS,Management of information, Quality of MIS, Business process reengineering	Create

Faculty Name : Dr. Anand Sharma 12/1/2020

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Course Outcome

Course Name	:	**Mobile Computing**
Course Code	:	**19.CA 610**
Credit	:	**4**
Semester and Year	:	**3RD Sem II YEAR MCA**
Program and Branch	:	**MCA**
Prerequisite	:	

Module wise course outcome

Module	Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of course student's will be able to		
Unit 1	ET 362.1	Understand the Mobility Computing and need	Understand
	ET 362.2	Knowledge on GSM GPRS etc	Analyze
Unit 2	ET 362.3	Create wireless networking	Create
Unit 3	ET 362.4	File System and Data for Mobile computation	Apply
Unit 4	ET 362.5	Analyze the security issues of Mobile Computing	Analyze
Unit 5	ET 362.6	Do the comparison of Adhoc Protocols	Evaluate

Faculty Name: Mr P.K bishnoi

12/1/20

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Course Outcome

Course Name: Software Engineering
Course Code: CA19.634
Credit Hours: 40
Semester, Year: IV, II
Branch: MCA
Prerequisite: NIL

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
Course code.1	Demonstrate knowledge of the distinction between critical and non-critical systems and ability to manage a project including planning, scheduling and risk assessment/management.	Understanding
Course code.2	Author a software requirements document and understanding of the proper contents of a software requirements document.	Evaluating
Course code.3	Demonstrate proficiency of different life cycle models.	Analyzing
Course code.4	Identify specific components of a software design that can be targeted for reuse.	Applying
Course code.5	Demonstrate proficiency in software development cost estimation, software testing plan and advanced topics of software engineering	Remember
Course Code 6	Apply software Engineering concept in project development	Create

12/1/20

Faculty Name :Manmohan Sharma

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Course Outcome

Course Name: Software Engineering
Course Code: CA19.634
Credit Hours: 40
Semester, Year: IV, II
Branch: MCA
Prerequisite: NIL

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
Course code.1	Demonstrate knowledge of the distinction between critical and non-critical systems and ability to manage a project including planning, scheduling and risk assessment/management.	Understanding
Course code.2	Author a software requirements document and understanding of the proper contents of a software requirements document.	Evaluating
Course code.3	Demonstrate proficiency of different life cycle models.	Analyzing
Course code.4	Identify specific components of a software design that can be targeted for reuse.	Applying
Course code.5	Demonstrate proficiency in software development cost estimation, software testing plan and advanced topics of software engineering	Remember
Course Code 6	Apply software Engineering concept in project development	Create

10/1/20

Faculty Name :Manmohan Sharma

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Course Outcome

Course Name: Artificial Intelligence
Credit Hours: 3
Semester, Year: IV, 2nd year MCA
Branch: CSE
Prerequisite: Nil

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
CA 19.644.1	understand the basic concepts, theories and state-of-the-art techniques of artificial intelligence	understand
CA 19.644.2	understand the basic concepts Problem and search space	understand
CA 19.644.3	Distinguish various AI heuristic search algorithms	Evaluate
CA 19.644.4	Understand various game playing techniques / algorithms and apply them to various games	Apply
CA 19.644.5	Acquire the knowledge of real world Knowledge representation	Create

Faculty Name: Mrs. Aditi Kajala 10/01/2020

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Course Outcome

Course Name	:	**Mobile App Development Laboratory**
Course Code	:	**CA 628**
Credit	:	**2**
Semester and Year	:	**III, 3rd Year**
Program and Branch	:	**MCA. CS**
Prerequisite	:	**Java programming**

Module wise course outcome

Module	Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of course student's will be able to		
Unit 1	CA 628.1	Basics of Android and OS, Network	Understand
Unit 2	CA 628.2	Android programming structure and coding with Android Studio	Create , Remember
Unit 3	CA 628.3	GUI Design	Apply
Unit 4,5	CA 628.4	Control on Android program Via Manifest	Analyze
Unit 6	CA 628.5	Database handling in android	Apply
Unit7	CA 628.6	Intercommunication in Application and Test	Evaluate

12/1/20

Faculty Name: Mr P.K bishnoi

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Course Outcomes

Course Name: Mathematics III

Course Code: MA 14.201

Credit Hours: 4

Year: B.Tech. II Yr (Common to All Branches)

Semester: Autumn

Prerequisite: MA 14.101, MA 14.102

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome statement	Bloom Taxonomy
	At the completion of the course, student will be able to	
MA 14.201.1	Define the different aspects of linear programming, numerical methods, complex analysis, and integral transform.	Remember
MA 14.201.2	Explain the properties related to linear programming, numerical methods, complex analysis, and integral transform.	Understand
MA 14.201.3	Solve the problems related linear programming, numerical methods, complex analysis, and integral transform.	Apply
MA 14.201.4	Analyze the problem related to linear programming, numerical methods, complex analysis, and integral transform.	Analyze
MA 14.201.5	Compare all the aspects of the linear programming, numerical methods, complex analysis, and integral transform.	Evaluate
MA 14.201.6	May integrate the fundamentals of linear programming, numerical methods, complex analysis, and integral transform in the interdisciplinary area just like science, engineering and technology etc.	Create

Faculty Name: Dr. Arvind Maharshi

10/8/2019

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Course Outcome

Course Name: Mechanics of Solids
Course Code: ME 14.201
Credit Hours: 3
Semester, Year: Autumn, I
Branch: B.Tech Mechanical Engineering
Prerequisite: Applied Mechanics (ME 14.101)

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
ME 14.201.1	Explain the fundamental concepts of rigid and deformable solids in the perspective of stress, strain and energy.	Understand
ME 14.201.2	Apply the principles of bi-axial state of stresses in various problems	Apply
ME 14.201.3	Calculate the loads in beams, forces and moments associated with different sections.	Apply
ME 14.201.4	Illustrate the theory, principles associated to torsion in solid, hollow, and stepped shaft.	Apply
ME 14.201.5	Analyse different types of beams using different methods to derive moments and deflection.	Analyse
ME 14.201.6	Analyse different types of trusses using different methods	Analyse

07/08/2019

Vikrant Sharma

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Course Outcome

Course Name: Engineering Thermodynamics

Course Code: ME 14.203

Credit Hours: 4

Semester, Year: Autumn, II

Branch: Mechanical Engineering

Prerequisite: MA 14.101, MA 14.102

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
ME 14.203.1	To understand the basic concepts of thermodynamics and heat and work transfer in various thermodynamic processes. To understand the concept of zeroth law of thermodynamics & various temperature scale.	Understand
ME 14.203.2	To apply the concept of first law of thermodynamics in various thermodynamic processes. To apply the conditions of steady flow energy equation in various thermodynamics systems.	Apply
ME 14.203.3	To apply the concept of second law of thermodynamics in various thermodynamic devices. To apply the conditions of reversibility in Carnot cycle.	Apply
ME 14.203.4	To understand the concept of entropy in various thermodynamic process. To understand the concept of availability in various thermodynamic systems.	Understand
ME 14.203.5	To evaluate the various thermodynamics relations amongst the different thermodynamic properties like pressure, temperature, entropy, enthalpy etc.	Evaluate
ME 14.203.6	To analyse the various states of pure substance. To analyse the thermal efficiencies of various thermodynamics cycle used in different thermodynamic devices.	Analyse

05/8/19

Faculty Name: Dr. Vivek Pandey

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Course Outcome

Course Name: Material Science
Course Code: ME 14.205
Credit Hours: 3
Semester, Year: Autumn, II
Branch: B.Tech Mechanical Engineering
Prerequisite: Elementary Maths (MA 14.101) and Physics (PY 14.101)

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
ME 14.205.1	*to understand the properties of materials & their applications.*	Understand
ME 14.205.2	*to impart the knowledge on mechanical behaviour of materials.*	Apply
ME 14.205.3	*to understand phase diagrams of metals and their characteristics.*	Understand
ME 14.205.4	*to acquire knowledge in various class of materials (like Ferrous, Non-Ferrous Alloys and Advanced Materials) and their applications.*	Evaluate
ME 14.205.5	*to understand the heat treatment processes and destructive and non-destructive testing of materials.*	Apply
ME 14.205.6	*to design the alloy system of ferrous and non-ferrous metals based on their knowledge of phase diagrams and metal characteristics.*	Understand

10.8.2019

Dr. Atul Kumar

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Course Outcome

Course Name: Mechanics of Solids Laboratory
Course Code: ME 14.211
Credit Hours: 1
Semester, Year: Autumn, II
Branch: B.Tech Mechanical Engineering
Prerequisite: Applied Mechanics (ME 14.101)

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
ME 14.211.1	Compute the tensile strength, shear strength, impact strength of the given specimen using different testing methods	Apply
ME 14.211.2	Analyze the hardness of the given specimen using different testing methods	Apply
ME 14.211.3	Predict the bending stress, modulus of rigidity, fatigue strength of the given specimen using different testing methods	Apply
ME 14.211.4	To find the values of bending stresses and Young's modulus of the material of a beam	Apply

10.8.2018

Atul Kumar

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Course Outcome

Course Name: Thermodynamics Laboratory
Course Code: ME 14.213
Credit Hours: 1
Semester, Year: Autumn, II
Branch: Mechanical Engineering
Prerequisite: Engineering Thermodynamics

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
ME 14.213.1	To Study and calibrate various types of temperature measuring device.	Evaluate
ME 14.213.2	To Study of various types of humidity measuring devices. a. To study hair hygrometer b. To study wet & dry hygrometer c. To study whirling hygrometer	Evaluate
ME 14.213.3	To Study whirling hygrometer for humidity measurement.	Evaluate
ME 14.213.4	To study and evaluate the various properties of steam with steam generator.	Evaluate

05/Aug/19

Faculty Name: Dr. Vivek Pandey

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Course Outcome

Course Name: Computer Aided Machine Drawing

Course Code: ME 14.215

Credit Hours: 1

Semester, Year: Autumn, II

Branch: ME

Prerequisite: ME 14.111

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
ME 14.215.1	Understand the conventions and the methods of engineering drawing. Analyse the theory of projection of solids and sectional views.	Analyse
ME 14.215.2	Understand the limit, fit and tolerances of the mechanical components.	Understand
ME 14.215.3	Understand the various joints like welded, riveted, threaded etc.	Understand
ME 14.215.4	Understand the manual assembly drawing and create 3 dimensional models using solid work software. Create assembly of mechanical components.	Create

Faculty Name: Mukul Kant Paliwal 10/8/2019

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Course Outcome

Course Name: Kinematics of Machines

Course Code: ME 14.202

Credit Hours: 4

Semester, Year: Spring, II

Branch: Mechanical Engineering

Prerequisite: ME 14.101, ME 14.111

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
ME 14.202.1	Understand the mechanisms and predict their motion. Remembering the lower pairs and inversion of mechanisms.	Understand
ME 14.202.2	Evaluate the degrees of freedom of mechanisms and motion parameters. Understand the straight line motion.	Evaluate
ME 14.202.3	Analyses the position, velocity, acceleration, and dynamics of multi-bar mechanisms. Applying the instantaneous centre method for velocity analysis.	Analyse
ME 14.202.4	Create displacement diagrams for followers with various types of motions and analyse the cam profile for various motions of follower.	Create
ME 14.202.5	Understand the mechanical Drives and analyse the gear drive arrangement to avoid interference occurrence.	Analyse
ME 14.202.6	Analyse the variousgear trains mechanism and evaluate the speed of epicyclic gear trains.	Evaluate

Faculty Name: Mukul Kant Paliwal 10/2/2020

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Course Outcome

Course Name: Fluid Mechanics

Course Code: ME 14.204

Credit Hours: 4

Semester, Year: Spring, II

Branch: Mechanical Engineering

Prerequisite: ME 14.101

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
ME 14.204.1	To analyse the various types of fluid and their physical properties. To analyse the various forces acting on submerged different bodies in fluid.	Analyse
ME 14.204.2	To understand stability of immersed and floating bodies in fluid. To understand the various types of fluid flow.	Understand
ME 14.204.3	To evaluate the boundary layer phenomenon over a flat plate. Bernoulli's equation and momentum equation. To evaluate the Buckingham's pi theorem in various fluid models.	Evaluate
ME 14.204.4	To analyse the lift and drag force phenomenon in a stream lined body. To analyse the different types of losses in pipe flow.	Analyse
ME 14.204.5	To analyse the various flow measuring devices.	Analyse
ME 14.204.6	To understand the behavior of the compressible fluid in fluid flow.	Understand

Faculty Name: Dr. Sanjeev Jakhar

11/2/2020

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Course Outcome

Course Name: Design of Machine Elements - **I**

Course Code: ME 14.206

Credit Hours: 3

Semester, Year: Spring, II

Branch: Mechanical Engineering

Prerequisite: ME 14.101, ME 14.201

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
ME14.206.1	Understand the basic concepts of Engineering Design	Understand
ME14.206.2	Understand the design of simple machine parts and static load criteria. Apply the failure theories in design against static load.	Apply
ME14.206.3	Understand the methods to reduce stress concentration and concept of fluctuating stresses. Apply the failure theories for determination of endurance limit and strength against fluctuating stresses.	Analyse
ME14.206.4	Understand the design criteria and classify the shafts, keys, couplings and springs. Apply the design criteria and design these on bases of various input data.	Evaluate
ME14.206.5	Understand the design criteria and classify the welded and riveted joints. Apply design criteria for designing of welded joints subjected to Bending, torsional and fluctuating stresses and riveted joints subjected to axial and eccentric loads.	Create
ME14.206.6	Understand the design criteria and classify the screw fastenings, threaded joints and power screws. Apply design criteria for designing of screw fastenings and threaded joints subjected to eccentric, shear and fluctuating loads. Elastic analysis of bolted joints.	Create

Faculty Name: Mukul Kant Paliwal MKP 10/2/2020

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Course Outcome

Course Name: Production Technology I
Course Code: ME 14.208
Credit Hours: 3
Semester, Year: Spring, II
Branch: B.Tech Mechanical Engineering
Prerequisite: Mechanical Workshop (ME 14.112)

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
ME 14.208.1	Understand basic manufacturing processes and their classification	Understand
ME 14. 208.2	Understand the knowledge on metal cutting and apply mechanics of cutting to metal machining based on cutting force	Apply
ME 14. 208.3	Understand working of turning and Decide the sequence of operations for Lathe and its types.	Evaluate
ME 14. 208.4	Understand hole making operations	Understand
ME 14. 208.5	Understand milling operations and apply different indexing.	Apply
ME 14. 208.6	Understand different reciprocating machine tools	Understand

Vikrant Sharma 10/01/2020

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Course Outcome

Course Name: Automobile Engineering
Course Code: ME 14.210
Credit Hours: 3
Semester, Year: Spring, III
Branch: Mechanical Engineering
Prerequisite: Nil

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
ME14.210.1	Evaluate the performance parameter of an automobile.	Evaluating
ME14.210.2	Understand the working of various fuel feed system in automobile.	Understand
ME14.210.3	Find out the various types of water cooled system used in various automobile.	Analyse
ME14.210.4	Understand the various components of a suspension system used in automobile.	Understand
ME14.210.5	Understand the various components of steering system, gear box and axle of an automobile.	Understand
ME14.210.6	Analyse the working of various electrical components used in an automobile.	Analyse

08/02/2020

Faculty Name: Dr. Vivek Pandey

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Course Outcome

Course Name: Production Technology Practice I
Course Code: ME 14.212
Credit Hours: 1
Semester, Year: Spring, II
Branch: B.Tech Mechanical Engineering
Prerequisite: Mechanical Workshop (ME 14.112), Production Technology I (ME 14.208)

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
ME 14.212.1	Explain the working principle of different machine tools	Understand
ME 14.212.2	Create job with various turning operations	Create
ME 14.212.3	Create flat surfaces on shaper	Create
ME 14.212.4	Create spur gear on milling	Create

Vikrant Sharma 10/01/2020

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Course Outcome

Course Name: Fluids Mechanics Laboratory
Course Code: ME 14.214
Credit Hours: 1
Semester, Year: Spring, II
Branch: Mechanical Engineering
Prerequisite: Fluids Mechanics

Module wise Course Outcome (CO)

	Course Outcome Number	Course Outcome	Bloom Taxonomy
		At the end of the course, Student will be able to:	
Unit 1	ME 14.214.1	To Study and calibrate Bourdon tube pressure gauge.	Evaluate
Unit 2	ME 14.214.2	Study of Venturimeter. a. To measure complete static head distribution along a horizontal Venturitube. b. To compare experimental results with theoretical results. c. To measure the meter coefficient of discharge at various flow rates.	Evaluate
Unit 3	ME 14.214.3	To study discharge over a notch. a. To investigate head against discharge over a notch.	Evaluate
Unit 4	ME 14.214.4	To study friction loss in pipe a. To investigate laminar and turbulent flow in pipe. b. To verify Poiseulle's Equation and the coefficient of viscosity for water in the laminar flow region. c. To demonstrate and measure the change in friction factor from laminar to turbulent.	Evaluate

Faculty Name: Dr. Sanjeev Jakhar 12/2/2020

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Course Outcome

Course Name: Design of Machine Elements Practice - I
Course Code: ME14.216
Credit Hours: 1
Semester, Year: Spring, II
Branch: ME
Prerequisite: ME 14.101, ME 14.201

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
ME14.216.1	Design and drawing of a cotter joint, knuckle joint, hooke's joint	Apply
ME14.216.2	Application of theories of failure to design machine members subjected to combined loadings	Apply
ME14.216.3	Design of machine elements against fluctuating loads	Evaluate
ME14.216.4	Design and drawing of rigid and flexible couplings, riveted joint & welded joint, threaded joints, power screws and springs	Create

Faculty Name: Mukul Kant Paliwal 10/24/2020

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Course Outcome

Course Name: Comprehensive - I
Course Code: ME14.218
Credit Hours: 3
Semester, Year: Spring, II
Branch: ME
Prerequisite: ME 14.201, ME 14.203, ME 14.202, ME 14.204

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
ME14.218.1	Understand the basic concepts and laws of thermodynamics.	Understand
ME14.218.2	Understand the design criteria and classify the welded and riveted joints. Apply design criteria for designing of welded joints subjected to Bending, torsional and fluctuating stresses and riveted joints subjected to axial and eccentric loads.	Create
ME14.218.3	To analyse the various types of fluid and their physical properties. To analyse the various forces acting on submerged different bodies in fluid.	Analyse
ME14.218.4	Evaluate the degrees of freedom of mechanisms and motion parameters. Evaluate the speed of epicyclic gear trains.	Evaluate
ME14.218.5	Evaluate the stresses and elastic constant in mechanical components. Evaluate the numerical and linear programming techniques.	Evaluate
ME14.218.6	Understand the knowledge of various properties of materials and structures. Apply mechanics of cutting to metal machining based on cutting force. Understand	Apply

08/Dec/20

Faculty Name Vivek Pandey

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Course Outcome

Course Name: Dynamics of Machines

Course Code: ME 14.301

Credit Hours: 4

Semester, Year: Autumn, III

Branch: Mechanical Engineering

Prerequisite: ME 14.101, ME 14.202

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
ME 14.301.1	Understand the static force relationships and inertia forces and their effect that exist in machines.	Understand
ME 14.301.2	Apply the dynamics of flywheel and their motion.	Apply
ME 14.301.3	Analyse balancing of rotating masses in a single and several planes	Analyse
ME 14.301.4	Analyse the speed variation for varying load on engine of the governors	Analyse
ME 14.301.5	Understand the gyroscopic effect on practical application like naval ship, areoplane, 2 and 4 wheeler vehicles	Understand
ME 14.301.6	Create free body diagram for: A freely vibrating single and multi-degree of freedomundamped and damped motion A forced vibrating single and multi-degree of freedom undamped and damped motion.	Create

Faculty Name: Mukul Kant Paliwal 10/8/2019

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Course Outcome

Course Name: Design of Machine Elements -II

Course Code: ME 14.303

Credit Hours: 4

Semester, Year: Autumn, III

Branch: Mechanical Engineering

Prerequisite: ME 14.101, ME 14.201, ME 14.206

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
ME 14.303.1	Understand the design criteria and classify the gears.	Understand
ME 14.303.2	Apply the design criteria based on beam and wear strengths.	Apply
ME 14.303.3	Understand the classification of clutch and brakes for various applications and apply design criteria based on friction, energy, thermal considerations etc.	Apply
ME 14.303.4	Understand the classification of rolling contact bearings and evaluate the dynamic load capacity for life of bearings.	Evaluate
ME 14.303.5	Understand the mode of lubrications for sliding contact bearing. Design of sliding contact bearing based on lubrication properties and flow requirement.	Create
ME 14.303.6	Understand the design criteria of IC Engines parts and design of piston, connecting rod, cylinder and crankshaft of engine.	Create

Faculty Name: Mukul Kant Paliwal MKP 10/8/2019

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Course Outcome

Course Name: Heat and Mass Transfer

Course Code: ME 14.305

Credit Hours: 4

Semester, Year: Autumn, III

Branch: Mechanical Engineering

Prerequisite: MA 14.20, ME 14.203, ME 14.204

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
ME 14.305.1	To analyse the various modes of heat transfer. To analyse the heat conduction of the different systems.	Analyse
ME 14.305.2	To understand the multidimensional steady state	Understand
ME 14.305.3	To evaluate the transient heat conduction-lumped heat capacity analysis for different practical problems. To evaluate the size of heat exchangers	Evaluate
ME 14.305.4	To analyse the convection and boundary layer phenomenon over a flat plate for laminar and turbulent flow.	Analyse
ME 14.305.5	To analyse the various correlations of heat transfer.	Analyse
ME 14.305.6	To understand the phenomenon of radiation heat transfer and mass transfer.	Understand

Faculty Name: Dr. Sanjeev Jakhar 12/8/2019

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Course Outcome

Course Name: Fluid Machinery

Course Code: ME 14.307

Credit Hours: 3

Semester, Year: Autumn, III

Branch: Mechanical Engineering

Prerequisite: ME 14.204

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
ME 14.307.1	To understand the principle of various hydraulic machines.	Understand
ME 14.307.2	To analyse the impact of jet on various surfaces.	Analyse
ME 14.307.3	To understand the working principle and phenomenon of impulse and reaction turbines.	Understand
ME 14.307.4	To analyse the impulse and reaction turbines on different parameters.	Analyse
ME 14.307.5	To evaluate the performance of the centrifugal and piston displacement pumps.	Evaluate
ME 14.307.6	To understand the working principle of hydraulic accumulator, Intensifier, Hydraulic press, Lift and Cranes, theory of hydraulic coupling and torque converters.	Understand

Faculty Name: Dr. Sanjeev Jakhar SJ 12/10/2019

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Course Outcome

Course Name: Design of Machine Elements Practice-II

Course Code: ME 14.311

Credit Hours: 1

Semester, Year: Autumn, III

Branch: ME

Prerequisite: ME 14.101, ME 14.201, ME 14.206

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
ME 14.311.1	Design and Drawing of various gears against beam and wear strength.	Create
ME 14.311.2	Understand the clutch and barking system for various applications. Apply design criteria to predict the failure points.	Apply
ME 14.311.3	Design and Drawing of rolling contact ball bearing for shaft, gear assembly to transmit power.	Create
ME 14.311.4	Design and drawing of IC Engine parts like piston, connecting rod, crankshaft etc.	Create

Faculty Name: Mukul Kant Paliwal 10/01/2019

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Course Outcome

Course Name: Fluid Machinery Laboratory
Course Code: ME 14.313
Credit Hours: 1
Semester, Year: Autumn, III
Branch: Mechanical Engineering
Prerequisite: Fluids Machinery

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
ME 14.313.1	To study and determine the performance characteristic of a Pelton wheel. a. To plot a graph between inlet pressure, flow rate, torque and power against speed for a set of nozzle opening. b. To analyze the plotted graph between inlet pressure, flow rate, torque and power against speed for a set of nozzle opening. c. To determine the overall conversion efficiency of fluid to mechanical energy, over a range of condition. d. To compare experimental results with theoretical results	Evaluate
ME 14.313.2	To study and determine the performance characteristics of Francis turbine. a. At different flow rates b. At different guide vane setting c. To determine the overall conversion efficiency of fluid to mechanical energy d. To compare experimental results with theoretical results	Evaluate
ME 14.313.3	To study and determine the performance characteristics of Centrifugal Pump. a. To plot a graph between head v/s flow. b. To plot a graph between efficiency v/s flow c. To study non dimensional characteristics d. To demonstrate Cavitations	Evaluate

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ME 14.313.4	To study and determine the performance characteristics of Positive displacement pumps a. Piston pump b. Gear pump c. Vane pump d. Swash plate pump	Evaluate

Faculty Name: Dr. Sanjeev Jakhar 12/8/2019

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Course Outcome

Course Name: Interpersonal Communication

Course Code: GE 301

Credit Hours: 1

Semester, Year: Autumn, III

Branch: ME

Prerequisite: Basic General English

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
GE 301.1	Make an efficient Group Discussion in peer groups	Apply
GE 301.2	Learn Interview Skills	Remember
GE 301.3	Understand English Grammar and Sentence structures	Understand
GE 301.4	Attain Fluency in English Language	Create

Faculty Name: Dr A S Rao 10.12.19

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Course Outcome

Course Name: Computational Methods
Course Code: ME 14.302
Credit Hours: 3
Semester, Year: Spring, III
Branch: Mechanical Engineering
Prerequisite: Engineering Mathematics

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
ME14.302.1	Evaluate the order of convergence of given and algebraic and transcendental equations.	Evaluating
ME14.302.2	Understand the application of iterative methods in fluid and heat transfer problems.	Apply
ME14.302.3	Identify the basic relations between ill condition system, condition number and condition index.	Analyse
ME14.302.4	Understand the iterative method of numerical integration and differentiation.	Understand
ME14.302.5	Understand the various condition of obtaining best fit curve for given data set.	Understand
ME14.302.6	Apply the finite difference methods in solving of elliptic and hyperbolic equations.	Apply

Faculty Name: Dr. Vivek Pandey

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Course Outcome

Course Name: I C Engines

Course Code: ME 14.304

Credit Hours: 3

Semester, Year: Spring, II

Branch: Mechanical Engineering

Prerequisite: ME 14.101, ME 14.204, ME 14.305

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
ME 14.304.1	To understand the working of various types of I C Engines. To understand the working of various types of carburetor and fuel injector in the I C engines.	Understand
ME 14.304.2	To analyse the combustion phenomenon in S I Engine. To analyse the combustion phenomenon in C I Engine.	Analyse
ME 14.304.3	To understand the phenomenon of the turbocharging and supercharging in CI engine. To understand the various types of ignition system in I C engines.	Understand
ME 14.304.4	To analyse the engine starting system, engine cooling system, Intake and exhaust system. To analyse the various properties of conventional and alternate fuels for engines.	Analyse
ME 14.304.5	To evaluate the different types of pollutants from an IC engine and their effect and controlling methods.	Evaluate
ME 14.304.6	To evaluate the performance of IC Engines on various parameters.	Evaluate

Faculty Name: Dr. Sanjeev Jakhar 12/2/2020

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Course Outcome

Course Name: Production Technology II
Course Code: ME 14.306
Credit Hours: 3
Semester, Year: Spring, III
Branch: Mechanical Engineering
Prerequisite: Production Technology I

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
At the end of the course, student will be able to:		
ME14.306.1	To understand the basic principles of metal forming, welding and casting processes	Understand
ME14.306.2	Explain capabilities and applications of bulk metal forming processes and sheet metal work.	Apply
ME14.306.5	Classify patterns and binders types of moulds, types of sand. Sketch the types of mould machine, casting defects	Understand
ME14.306.6	To calculate various casting parameters for different casting processes.	Apply
ME14.306.8	Understand the fundamental principles of various welding process	Understand
ME14.306.9	Apply the knowledge of welding process for engineering applications.	Apply and Analyse

12.2.2020

Faculty Name: Mr. Atul Kumar

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Course Outcome

Course Name: Metrology and Quality Control
Course Code: ME 14.308
Credit Hours: 3
Semester, Year: Spring, III
Branch: Mechanical Engineering
Prerequisite: Basic Mechanical Engineering

Module wise Course Outcome (CO)

Module	Course Outcome Number	Course Outcome	Bloom Taxonomy
At the end of the course, student will be able to:			
	ME14.308.1	Understand about the fundamentals of General Measurement system & Errors in Measurement.	Understand
	ME14.308.2	Understand the Surface Metrology Concepts and terminology.	Understand
	ME14.308.3	Understand the working principle and various non-contact measuring devices	Understand
	ME14.308.4	Explain the different meanings of the quality concept and its influence. Use statistical process control techniques (SPC) recognized throughout industries to ensure the quality level of products.	Understand
	ME14.308.5	Understand how a control chart is used to detect assignable causes	Analyse
	ME14.308.6	Use of Acceptance sampling for incoming or receiving inspection	Apply

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Faculty Name: Mr. Atul Kumar

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Course Outcome

Course Name: Vibration Engineering

Course Code: ME 14.322

Credit Hours:4

Semester, Year: Spring, III

Branch: Mechanical Engineering

Prerequisite: MA 14.101, ME 14.301

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
ME 14.322.1	Understand the natural frequencies of a single and multi-degree of freedom system and explain the modal analysis of a vibrating system.	Understand
ME 14.322.2	Create free body diagram for: • A freely vibrating single and multi-degree of freedom undamped and damped motion • A forced vibrating single and multi-degree of freedom undamped and damped motion.	Create
ME 14.322.3	Analyze the mathematical modeling of the two degrees of freedom systems and explain about the working principle of vibration absorber, whirling of shaft, vibrating measuring instruments etc.	Analyse
ME 14.322.4	Evaluate vibration problems that contain single and multi-degrees of freedom systems. Understand the coordinate coupling.	Evaluate
ME 14.322.5	Apply the numerical methods techniques to determine natural frequencies of the spring string, bar, beam and rotor systems.	Apply
ME 14.322.6	Analyse of continuous system and find natural frequency.	Analyse

Faculty Name: Mukul Kant Paliwal 10/2/2020

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Course Outcome

Course Name: Computational Methods Lab
Course Code: ME 14.310
Credit Hours: 1
Semester, Year: Spring, III
Branch: Mechanical Engineering
Prerequisite: Engineering Mathematics

Module wise Course Outcome (CO)

	Course Outcome Number	Course Outcome	Bloom Taxonomy
		At the end of the course, Student will be able to:	
Unit 1	ME 14.310.1	To evaluate algebraic and transcendental equations using computer programs.	Evaluate
Unit 2	ME 14.310.2	To evaluate a system of linear algebraic equations using direct methods and iterative methods in a computer.	Evaluate
Unit 3	ME 14.310.3	To evaluate computer programs on numerical integration and differentiation and some given problems in computer.	Evaluate
Unit 4	ME 14.310.4	Developing computer programs for various types of curve fittings, for solution of ODE, PDE and solving a given problem in computer.	Evaluate

Faculty Name: Dr. Sanjeev Jakhar 12/2/2020

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Course Outcome

Course Name: I.C. Engines Lab
Course Code: ME 14.312
Credit Hours: 1
Semester, Year: Spring, III
Branch: Mechanical Engineering
Prerequisite: I. C. Engines

Module wise Course Outcome (CO)

	Course Outcome Number	Course Outcome	Bloom Taxonomy
		At the end of the course, Student will be able to:	
Unit 1	ME 14.312.1	The performance characteristics of single cylinder four stroke petrol engine.	Evaluate
Unit 2	ME 14.312.2	The performance characteristics of single cylinder four stroke diesel engine.	Evaluate
Unit 3	ME 14.312.3	The performance characteristics of Reciprocating Compressor.	Evaluate
Unit 4	ME 14.312.4	The performance characteristics of Centrifugal Compressor.	Evaluate
One more			

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Course Outcome

Course Name: Production Technology Practice II
Course Code: ME 14.314
Credit Hours: 1
Semester, Year: Spring, III
Branch: B.Tech Mechanical Engineering
Prerequisite: Mechanical Workshop (ME 14.112), Production Technology I (ME 14.208)

Module wise Course Outcome (CO)

	Course Outcome Number	Course Outcome	Bloom Taxonomy
At the end of the course, Student will be able to:			
Unit 1	ME 14.314.1	Perform job on capstan, turret lathe consisting of various operations.	Perform and produce
Unit 2	ME 14.314.2	Perform job on surface grinder and centerless grinding machine	Perform and produce
Unit 3	ME 14.314.3	Perform job on Radial Drilling Machine.	Perform and produce
Unit 4	ME 14.314.4	Determine the cutting forces measurement during milling using lathe, milling and drilling dynamometer	Perform and produce

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Faculty Name: Atul Kumar

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Course Outcome

Course Name: Metrology & Quality Control Laboratory
Course Code: ME 14.316
Credit Hours: 1
Semester, Year: Spring, III
Branch: B.Tech Mechanical Engineering
Prerequisite: Mechanical Workshop (ME 14.112)

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
At the end of the course, Student will be able to:		
ME 14.316.1	To understand the working of various measuring instruments.	Understand
ME 14.316.2	To be able to use linear measuring instruments effectively.	Perform
ME 14.316.3	To be able to use angular measuring instruments effectively.	Perform
ME 14.316.4	Study & Use of Control charts, SQC and sampling plan	Understand

12.2.2020

Faculty Name: Atul Kumar

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Course Outcome

Course Name: Comprehensive-II
Course Code: ME 14.318
Credit Hours: 3
Semester, Year: Spring, III
Branch: Mechanical Engineering
Prerequisite: ME 14.301, ME 14.305, ME 14.322, ME 14.306

Module wise Course Outcome (CO)

Module	Course Outcome Number	Course Outcome	Bloom Taxonomy
At the end of the course, student will be able to:			
	ME14.318.1	Evaluate the order of convergence of given and algebraic and transcendental equations.	Evaluate
	ME14.318.2	Understand the conduction, convection and radiation of heat transfer. Analysis of various types of heat exchanger.	Analysis
	ME14.318.3	Understand the natural frequencies of a single and multi-degree of freedom system and explain the modal analysis of a vibrating system. Understand the dynamic force of mechanical components.	Understand
	ME14.318.4	Analysis of machine elements like gears, bearing, clutches etc.	Analysis
	ME14.318.5	Understand the basic principles of metal forming, welding and casting processes	Understand
	ME14.318.6	Understand the working of various types of I C Engines and hydraulic machines.	Understand

Faculty Name: Dr. Vivek Pandey

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Course Outcome

Course Name: Thermal Engineering Systems

Course Code: ME 14.401

Credit Hours: 4

Semester, Year: Autumn, IV

Branch: Mechanical Engineering

Prerequisite: Engineering Thermodynamics

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
ME 14.401.1	To understand the basic concepts of boiler, boiler mountings and accessories. To understand the various aspect of chimney draught and chimney design.	Understand
ME 14.401.2	To apply the concept of thermodynamics in the design of steam nozzle.	Apply
ME 14.401.3	To analyse the concept of steam turbine used in thermal power plant. To analyse the velocity triangle of different steam turbines.	Analyse
ME 14.401.4	To analyse the various design parameters of different types of compressors.	Analyse
ME 14.101.5	To understand the various components used in different types of steam condensers.	Understand

Faculty Name: Dr. Vivek Pandey

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Course Outcome

Course Name: Refrigeration and Air Conditioning

Course Code: ME 14.403

Credit Hours: 4

Semester, Year: Autumn, IV

Branch: Mechanical Engineering

Prerequisite: ME 14.305

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
ME 14.403.1	To understand the fundamentals of Refrigeration and Air Conditioning Machines.	Understand
ME 14.403.2	To analyse the performance of air refrigeration and vapor compression refrigeration systems.	Analyse
ME 14.403.3	To understand the working principle of vapor absorption refrigeration systems.	Understand
ME 14.403.4	To analyse the Multistage Vapor Compression Refrigeration Systems.	Analyse
ME 14.403.5	To Understand the properties of various refrigerants and Psychrometry processes.	Understand
ME 14.403.6	To evaluate the heating and cooling load of buildings and design the air conditioning systems.	Evaluate

Faculty Name: Dr. Sanjeev Jakhar 12/8/2019

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Course Outcome

Course Name: Production Technology III
Course Code: ME 14.405
Credit Hours: 3
Semester, Year: Autumn, IV
Branch: B.Tech Mechanical Engineering
Prerequisite: Production Technology II

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
ME 14.405.1	Understand basic manufacturing processes and their classification	Understand
ME 14.405.2	Apply the knowledge of various advance manufacturing processes.	Apply
ME 14.405.3	Identify various process parameters and their effect on processes.	Evaluate
ME 14.405.4	Figure out application of modernization in machining.	Understand
ME 14.405.5	Get the knowledge of Jigs and Fixtures so as to utilize machine capability for variety of operations	Apply
ME 14.405.6	Understand different rapid prototyping processes	Understand

10.12.15

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Course Outcome

Course Name: Industrial Engineering and Operation Research
Course Code: ME 14.407
Credit Hours: 3
Semester, Year: VII, 4th
Branch: Mechanical Engineering
Prerequisite:

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
Course code.1	*Understand Concept of Industrial engineering and its role in industry.*	Understand
Course code.2	Understand productivity and solved problems related to productivity	Understand and Apply
Course code.3	Apply qualitative and quantitative techniques for plant location and layout	Apply
Course code.4	Understand and apply work study concept	Apply
Course code.5	*Build and solve Linear programming, Transportation models and assignment models.*	Critical and Apply
Course code.6	*Develop critical thinking and objective analysis decision making.*	Evaluate

07/08/2019

Faculty Name

Vikrant Sharma

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Course Outcome

Course Name: Minor Project
Course Code: ME 14.409
Credit Hours: 2
Semester, Year: Spring, VIII
Branch: Mechanical Engineering
Prerequisite: All Mechanical Engineering subjects

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
ME 14.409.1	Formulation of research problem.	Analysis
ME 14.409.2	Able to understand literature review.	Understand
ME 14.409.3	Analyzing the obtained results.	Analysis
ME 14.409.4	Able to report writing.	Applying
ME 14.409.5	Understand the value of team work.	Understand
ME 14.409.6	Able to improve the presentation skills.	Creating

Faculty Name: Dr. Sanjeev Jakhar 12/12/2020

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Course Outcome

Course Name: Colloquium
Course Code: ME 14.411
Credit Hours: 2
Semester, Year: Autumn, VII
Branch: Mechanical Engineering
Prerequisite: All Mechanical Engineering subjects

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
ME 14.411.1	To identify promising new directions of various cutting edge technologies	Remember
ME 14.411.2	To impart skills in preparing detailed report describing the project and results	Apply
ME 14.411.3	To effectively communicate by making an oral presentation before an evaluation committee	Understand
ME 14.411.4	To study research papers for understanding of a new field, in the absence of a textbook , to summarise and review them	Create

Faculty Name: Dr. Sanjeev Jakhar 12/12/2019

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Course Outcome

Course Name: Industrial Training Seminar
Course Code: ME 14.413
Credit Hours: 2
Semester, Year: Autumn, VII
Branch: Mechanical Engineering
Prerequisite: All Mechanical Engineering subjects

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
ME 14.413.1	Develop greater clarity about academic and career goals	Create
ME 14.413.2	Exercise the role of the professional/specialist/manager/supervisor confidently in the relevant industry	Apply
ME 14.413.3	Write formatted report explaining the work in industrial training and describing the experience	Apply
ME 14.413.4	Understand the value of team work.	Understand

Faculty Name: Mukul Kant Paliwal 10/12/2019

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Course Outcome

Course Name: Composite Material

Course Code: ME 14.417

Credit Hours: 4

Semester, Year: Autumn, IV

Branch: Mechanical Engineering

Prerequisite: ME 14.201, ME 14.205

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
ME 14.417.1	To understand the basic concept of composite materials.	Understand
ME 14.417.2	Apply the most appropriate manufacturing process for fabricating composite components	Apply
ME 14.417.3	Evaluate the elastic and strength properties of unidirectional laminates using micromechanics theory	Evaluate
ME 14.417.4	Understand of the mechanical and physical properties of polymeric, metallic, and ceramic composites	Understand
ME 14.417.5	Analyse the fracture, fatigue and impact performance of composites	Analyse

Faculty Name: Dr. Nitin Johri 13/02/2020

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Course Outcomes

Course Name: Professional Values and Ethics in Engineering

Course Code: ME 14.402

Year: IV Year

Semester: VIII Semester

Faculty Name: Dr. Atul Kumar

Module wise Course Outcome (CO)

CO	CO statement	Taxonomy
	At the end of the course the student will be able to:	
ME 14.402.1	Explain professional rights and responsibilities of an engineer, responsibilities of an engineer for safety and risk benefit analysis.	Understand
ME 14.402.2	The students will understand the basic perception of profession, professional ethics, various moral & social issues, Industrial standards, code of ethics and role of professional ethics in engineering field.	Create
ME 14.402.3	Demonstrate environment Ethics & computer ethics; know their responsibilities and rights.	Apply
ME 14.402.4	Describe Various roles of engineers in variety of global issues and able to apply ethical principles to resolve situations that arise in their professional lives.	Remember
ME 14.402.5	Recall and relate ethical concepts and materials to ethical problems in specific professions and professionalism.	Remember
ME 14.402.6	Measure types of ethical challenges and dilemmas confronting members of a range of professions (business, media, police, law, medicine, research)	Evaluate

12.2.20

Faculty Name – Dr. Atul Kumar

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Course Outcome

Course Name: CAD/CAM
Course Code: ME14.404
Credit Hours: 3
Semester, Year: Spring, IV
Branch: ME
Prerequisite: Mathematics (Matrix), Machine Design, C programming, Machine tool and Machining

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
ME14.206.1	Understand the basic fundamentals of Computer Aided Design (CAD) and concept of geometric transformations for modification of geometry	Understand
ME14.206.2	Formulate the concatenation of transformation matrices.	Apply
ME14.206.3	Formulate the representation of Bezier and cubic spline curves and surfaces. Application of CAD techniques for Finite Element Mesh generation.	Apply
ME14.206.4	Understand the concepts and Classification of Geometric Modelling, Kinematic Analysis and Simulation, Computer Aided Manufacturing (CAM)-NC, CNC, DNC	Analyze
ME14.206.5	Formulate part program as per design requirements for a machine tool.	Create
ME14.206.6	Understand the concepts and classification of Computer Aided Process Planning (CAPP) Systems, Flexible Manufacturing and Computer Integrated Manufacturing Systems.	Evaluate

08/Feb/20

Faculty Name: Dr. Vivek Pandey

MODY UNIVERSITY OF SCIENCE AND TECHNOLOGY
LAKSHMANGARH • RAJASTHAN
A Leading Women's University

School of Engineering and Technology (SET)
Lakshmangarh (Sikar), Rajasthan 332 311, India
Ph. No.: (1573) 225001-12 • Fax: (01573) 225042
email: dean.set@modyuniversity.ac.in • www.modyuniversity.ac.in

Course Outcome

Course Name: Operations Management
Course Code: ME 14.406
Credit Hours: 4
Semester, Year: Spring, IV
Branch: Mechanical Engineering
Prerequisite: Elementary knowledge of calculus

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
ME14.406.1	Understand the various types of manufacturing system & its characteristics.	Understand
ME14.406.2	Analyse the various types of forecasting techniques used in industries its characteristics.	Analyse
ME14.406.3	Understand the different approach of making network analysis.	Understand
ME14.406.4	Understand the different approach of material planning and control.	Understand
ME14.406.5	Apply the concept of Gantt chart in various manufacturing system.	Apply
ME14.406.6	Understand the concept of capacity planning and ERP in various manufacturing system.	Understand

Faculty Name: Dr. Kailash Choudhary Kail 13/2/2020

MODY UNIVERSITY
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Course Outcome

Course Name: CAD/CAM Laboratory
Course Code: ME14.408
Credit Hours: 1
Semester, Year: Spring, IV
Branch: ME
Prerequisite: ME 19.101, ME 14.206, CS 14.101

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
ME14.408.1	Implement simple C programs for the graphics representation of Transformation and projections, Bezier curves.	Understand
ME14.408.2	Understanding of various AutoCAD commands and creating simple objects	Apply
ME14.408.3	Creation of shafts, rounds, chamfers and slots using Solidworks. Sketch Tools & Datum planes. Objects by revolved feature, sweeps, patterns, copies, blends, loft feature. Assembling of part models using constraints. Assembly operations - part modifications, adding another assembly features display.	Create
ME14.408.4	Generation of GM codes for the given machine part for making the part using numeric control.	Create

Faculty Name: Mukul Kant Paliwal MKP 10/2/2020

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Course Outcome

Course Name: Major Project
Course Code: ME 14.410
Credit Hours: 10
Semester, Year: Spring, VIII
Branch: Mechanical Engineering
Prerequisite: All Mechanical Engineering subjects

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
ME 14.410.1	Formulation of research problem.	Analysis
ME 14.410.2	Able to understand literature review.	Understand
ME 14.410.3	Analyzing the obtained results.	Analysis
ME 14.410.4	Inculcate the research ethics.	Creating
ME 14.410.5	Able to report writing.	Applying
ME 14.410.6	Able to write a research paper.	Applying
ME 14.410.7	Understand the value of team work.	Understand
ME 14.410.8	Able to improve the presentation skills.	Creating

Faculty Name: Dr. Sanjeev Jakhar 12/2/2020

SCHOOL OF FASHION AND DESIGN

Course Name	**Basic of Pattern Making & Draping**
Course Code	MM121
Year	2019-20
Semester	Autumn
Faculty Name	Dr Adya Tiwari

CO Number	**Course Outcome statement** At the completion of the course, student will be able to	**Taxonomy Level**
FD213.1	Describeed different types of machines and machine choices to make, needle types, pattern drafting and draping concepts, taking body measurements	Understand
FD213.2	Demonstrate drafting basic pattern set for women in standard sizes, trouser drafting for men's wear	Apply
FD213.3	Developed patterns for variations of bodice using dart manipulation methods - slash & pivot techniques	Create
FD213.4	Types of Lower pattern and their pattern variations	Understand
FD213.5	Developed varied skirt patterns for different skirt styles	Create
FD213.6	Design and develop torso/dress block pattern	Create

Adya Tiwari
Signature of Faculty:

SCHOOL OF FASHION AND DESIGN

Course Name	**Garment Construction**
Course Code	MM131
Year	2019-20
Semester	Autumn
Faculty Name	Dr Adya Tiwari

CO Number	**Course Outcome statement** At the completion of the course, student will be able to	**Taxonomy Level**
FD223.1	Sewing machine operation and its maintenance, stitch different types of seams and seam finishes	Apply
FD223.2	Develop samples for adding fullness in garments, placket stitching, neckline finishes, choice of fasteners	Apply
FD223.3	Develop styles in collars, pockets, sleeve with cuff, skirt waistline finishing techniques	Apply
FD223.4	Develop styles of skirts by sewing samples	Apply
FD223.5	Assembling of a skirt with band and fastener	Create
FD223.6	Assembling of dress with fasteners	Create

Adya Tiwari
Signature of Faculty:

SCHOOL OF DESIGN

Course Outcomes

Course Name: Sourcing of Fashion Products

Course Code: MM 151

Year: II Year

Semester: 3rd Semester

Faculty Name: Ms. Shikha Kapoor

CO Number	**Course Outcome statement** At the completion of the course, student will be able to	**Taxonomy Level**
FM263.1	Understand the importance of global sourcing	Understand
FM263.2	production, trade and distribution of apparel products	Apply
FM263.3	Demonstrate the ability to identify fashion trends and forecasting.	Apply
FM263.4	Describe Fashion Concepts.	Understand
FM263.5	Develop design compositions.	Create
FM263.6	Exhibit, adapt, utilize & investigate the fashion design process through research, forecast, trend study, art plates, patterns, drapes etc.	Apply

Shikha Kapoor

Signature of the faculty

School of Design

Course Outcomes

Course Name: Introduction to Fashion
Course Code: MM 101

Year: 2019-20

Semester: 1st Semester

Faculty Name: Dr. Adya Tiwari

CO Number	**Course Outcome statement** At the completion of the course, student should be able to--	**Taxonomy Level**
MM101.1	Demonstrate complete knowledge and understanding of the importance of bringing design.	Understand
MM101.2	Demonstrate complete knowledge and understanding of the importance of design principles, design thinking and composition in fashion.	Understand
MM101.3	Apply learning through a development of tangible & non-tangible aspects of studio exercises.	Understand
MM101.4	Exhibit, adapt, utilize & investigate the process of fashion design thinking.	Analyze
MM101.7	Understand Retail cycle.	Understand
MM101.6	Demonstrate the ability to identify fashion trends and forecasting.	Understand

Signature of the faculty

School of Design

Course Outcomes

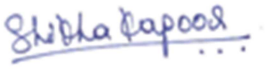
Course Name: Fashion Design Process
Course Code: MM 111

Year: 1 Year

Semester: 1st Semester

Faculty Name: Ms. Shikha Kapoor

CO Number	**Course Outcome statement** At the completion of the course, student should be able to--	**Taxonomy Level**
FM203.1	Demonstrate complete knowledge and understanding of the importance of bringing design to retail.	Understand
FM203.2	Understand the importance of quick response to the constant changes of the fashion systems and envision its future.	Understand
FM203.3	Should understand consumer demands and catering to it.	Understand
FM203.4	Research & Analyze trends, market, consumer and brands.	Analyze
FM203.7	Understand Retail cycle.	Understand
FM203.6	Identify project & client to develop a range of products following design process.	Create



Signature of the faculty

School of Design

Course Outcomes

Course Name: Fashion Figure Drawing

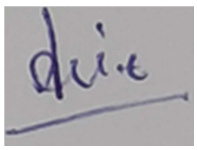
Course Code: MM141

Year: 2019-20

Semester: Autumn Semester

Faculty Name: Prof. (Dr.) Smriti Agarwal

CO Number	Course Outcome statement At the completion of the course, student will be able to	**Taxonomy Level**
FD233.1	Explore experiment and communicate expressions of body-forms.	Apply
FD233.2	Demonstrate fashion presentation skills, render fashion figure with details and basic garment drape.	Understand
FD233.3	Demonstrate competence in hand drawing and graphic skills for visual communication and presentation.	Apply
FD233.4	Understand the female body and movement for modeling	Analysis
FD233.5	Understand different form and movements in illustration.	Understand and apply
FD233.6	Develop women's wear collection	Create



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School of Fashion and Design

Course Outcomes

Course Name: **Historical Development of Indian Fashion Industry**

Course Code: MM161

Year: 2019-20

Semester: Autumn

Faculty Name: Dr. Adya Tiwari

CO Number	Course Outcome statement At the completion of the course, student should be able to--	Taxonomy Level
MM161.1	Demonstrate the significance of ancient Indian costume in context to fashion industry as it is today.	Apply
MM161.2	Conclude the variations in Indian costume through in different times in ancient India.	Evaluate
MM161.3	Explain how the clothing is used as a universal means of symbolizing roles and social positions.	Understand
MM161.4	Categorize historical Indian costumes.	Analyze
MM161.5	Determine how clothing communicates values, attitude.	Apply
MM161.6	Describe broader perspective of historical Indian costume in context of social, economic and industrial point of view.	Understand

Adya Tiwari
Signature of the faculty

School of Fashion and Design

Course Outcomes

Course Name: Computerized Fashion design-Introduction

Course Code: MM171

Year: 2019-20

Semester: Autumn

Faculty Name: Dr. Adya Tiwari

CO Number	Course Outcome statement At the completion of the course, student should be able to--	Taxonomy Level
MM171.1	Demonstrate an understanding of CAD software usage in visualization and presentation of Fashion products.	Understand
MM171.2	vestigate the role of computer as a more sophisticated nodology as compared to traditional methods of hand ving or illustration.	Evaluate
MM171.3	Explain how the clothing is used as a universal means of symbolizing roles and social positions.	Understand
MM171.4	Categorize various computerized design applications	Analyze
MM171.5	Understanding the computer application in fashion design	Apply
MM171.6	Exhibit awareness and understanding about the usage of contemporary technology/ equipment/ digital media resources in current fashion setting.	Apply

Adya Tiwari
Signature of the faculty

School of Design

Course Outcomes

Course Name: **Drawing & Colour**

Course Code: FD111

Year: 2019-20

Semester: First Semester

Faculty Name: Mr. Deepak Khandelwal

CO Number	Course Outcome statement At the completion of the course, student should be able to--	Taxonomy Level
FD111.1	Demonstrate complete knowledge and understanding of the importance of freehand sketching/drawing, its application & color study.	Apply
FD111.2	Apply learning through a development of 2D sketches and drawing.	Apply
FD111.3	Exhibit, adapt & utilize the role of drawing& color in design.	Analyze
FD111.4	Demonstrate the ability to handle drawing & color application.	Apply

Signature of the faculty

School of Design

Course Outcomes

Course Name: **Material & Process**

Course Code: FD20.121

Year: First Year

Semester: First Semester

Faculty Name: Mr. Deepak Khandelwal

CO Number	**Course Outcome statement** At the completion of the course, student should be able to--	**Taxonomy Level**
FD20.121.1	Demonstrate complete knowledge and understanding of the importance of Material manipulation &exploration and finishes.	Apply
FD20.121.2	Apply their learning through hands-on approach to skills, mediums and tools.	Apply
FD20.121.3	Exhibit, adapt, utilize & investigate the role of material for appropriate application& co relation & precision in design.	Analyze

Signature of the faculty

School of Design

Course Outcomes

Course Name: History of Art and Culture-I

Course Code: FD141

Year: 2019-20

Semester: 1st Semester

Faculty Name: Sukhvir Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FD141.1	Demonstrate complete knowledge and understanding of the importance of Eastern Culture	Understand
FD141.2	Demonstrate complete knowledge and understanding of the importance of Eastern/Oriental art	Understand
FD141.3	Apply learning through effective presentations & documentation of Oriental Crafts	Analyze
FD141.4	Analysis needs and Apply source of inspiration to develop documents regarding Indian Art and culture.	Analyze
FD141.5	Understand important works of Indian/Eastern art, in relation to contemporary practices	Understand
FD141.6	Exhibit, adapt, apply, utilize & investigate the role of Oriental art & culture.	Understand

Sukhvir Singh

Signature of the faculty

School of Design

Course Outcomes

Course Name: Design Concept-1

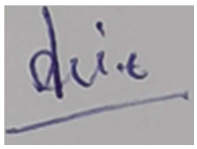
Course Code: FD101

Year: 2019-20

Semester: I/Autumn Semester

Faculty Name: Prof. (Dr.) Smriti Agarwal

CO Number	Course Outcome statement At the completion of the course, student will be able to	**Taxonomy Level**
FD101.1	Demonstrate complete knowledge and understanding of the importance of design principles, design thinking and composition.	Apply
FD101.2	Apply learning through a development of tangible & non-tangible aspects of studio exercises	Understand
FD101.3	Exhibit, adapt, utilize & investigate the process of design thinking	Apply
FD101.4	Demonstrate the ability to project their approach to their respective fields	Analysis
FD101.5	Use techniques of drawing to develop different motif.	Apply
FD101.6	Develop color balancing with tints and shades	Apply



Signature of the faculty

School of Design

Course Outcomes

Course Name: Communication Design-I

Course Code: FD 20.131

Year: 1st

Semester: 1st

Faculty Name: Mr. Sushil K. Bishnoi

CO Number	Course Outcome statement At the completion of the course, student should be able to--	Taxonomy Level
FD 131.1	Explain significance, effectiveness and importance of different sensory organs.	Understand
FD 131.2	Explain the evolution of communication.	Remember
FD 131.3	Recognize the role of communication in society.	Analyze
FD 131.4	Demonstrate use of tenses in different media writing.	Evaluate
FD 131.5	Demonstrate creative Writing – principles and methods of effective writing.	Apply
FD 131.6	Exhibit an ability to understand the masses and express utmost creativity through writing.	Create

Signature of the faculty

School of Design

Course Outcomes

Course Name: **Fashion Studies-II (Women's wear-Indian)**

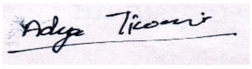
Course Code: FD 254

Year: 2019-20

Semester: Autumn

Faculty Name: Dr. Adya Tiwari

CO Number	**Course Outcome statement** At the completion of the course, student will be able to	**Taxonomy Level**
FM254.1	Identify the segment category of Indian Wear.	Remember
FM254.2	Outline market trends, forecasts and brands for specific Indian Wear ensembles	Analyse
FM254.3	Compose derivations, scrap books and doodles.	Create
FM254.4	Choose Fabrics and surface explorations	Evaluate
FM254.5	Assess client profile.	Evaluate
FM254.6	Design an Indian wear collection through design process	Create



Signature of the faculty

Adya Tiwari

School of Design

Course Outcomes

Course Name: Fashion Illustration and Presentation Women's wear

Course Code: FD233

Year: 2020-21

Semester: IV/Autumn Semester

Faculty Name: Prof. (Dr.) Smriti Agarwal

CO Number	Course Outcome statement At the completion of the course, student will be able to	**Taxonomy Level**
FD233.1	Explore experiment and communicate expressions of body-forms.	Apply
FD233.2	Demonstrate fashion presentation skills, render fashion figure with details and basic garment drape.	Understand
FD233.3	Demonstrate competence in hand drawing and graphic skills for visual communication and presentation.	Apply
FD233.4	Understand the female body and movement for modeling	Analysis

Signature of the faculty

School of Design

Course Outcomes

Course Name: Retail Structure and & Different Retailing Techniques

Course Code: MM 213

Year: 2nd

Semester: 3rd

Faculty Name: Mr. Sushil K. Bishnoi

CO Number	Course Outcome statement At the completion of the course, student should be able to--	Taxonomy Level
MM 213.1	Explain the importance of understanding the basics of retail market with respect to fashion business.	Understand
MM 213.2	Explain the different retail formats and their processes in professional manner.	Remember
MM 213.3	Recognize the economic influence of retail sector and appreciate the management process in retailing.	Analyze
MM 213.4	Demonstrate a strong sense of decision making.	Evaluate
MM 213.5	Demonstrate understanding of different basic and advance tools used in fashion retailing and appropriate skills	Apply
MM 213.6	Exhibit comprehensive knowledge of Fashion Retail and applying the principles in the real business world.	Apply

Signature of the faculty

School of Design

Course Outcomes

Course Name: Global issues and ethical Trading

Course Code: MM 233

Year: 2nd

Semester: 3rd

Faculty Name: Mr. Sushil K. Bishnoi

CO Number	Course Outcome statement At the completion of the course, student should be able to--	Taxonomy Level
MM 233.1	establish a deep understanding of the current global issues in the apparel industry and relevance of ethical trading	Understand
MM 233.2	appreciate the history and evolution of ethical trading	Remember
MM 233.3	Analyze and Explainthe current global scenario with judgmental perspective of ethical trade.	Analyze
MM 233.4	Explain and develop skills to tackle environmental and social issues present in garment industry at national and international level.	Evaluate
MM 233.5	Gain a basic understanding of practices and conduct of import and export trade and become aware of the challenges being faced by apparel companies.	Apply
MM 233.6	Acquire knowledge about the impact of research, and changes in technology through sustainability issues and environment hazards being addressed both at national and international level.	Apply

Signature of the faculty

School of Design

Course Outcomes

Course Name: Branding, Trend Forecasting, Promotion

Course Code: MM 243

Year: 2nd

Semester: 3rd

Faculty Name: Mr. Sushil K. Bishnoi

CO Number	Course Outcome statement At the completion of the course, student should be able to--	Taxonomy Level
MM 243.1	Study fashion forecasting in order to ideate future tastes and preference	Understand
MM 243.2	Examine branding and the ways that brands acquire and sustain value in the marketplace	Remember
MM 243.3	Able to analyse the international market technically to predict trends accurately	Analyze
MM 243.4	Analyze the international market technically to predict trends accurately.	Evaluate
MM 243.5	Demonstrate strategically creating Forecasting model for a market/brand	Apply
MM 243.6	Understand the process of brand promotion	Apply

Signature of the faculty

School of Fashion and Design

Course Outcomes

Course Name: **Historical Development of Indian Fashion Industry**

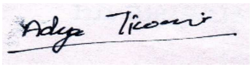
Course Code: MM161

Year: 2019-20

Semester: Autumn

Faculty Name: Dr. Adya Tiwari

CO Number	Course Outcome statement At the completion of the course, student should be able to--	Taxonomy Level
MM161.1	Demonstrate the significance of ancient Indian costume in context to fashion industry as it is today.	Apply
MM161.2	Conclude the variations in Indian costume through in different times in ancient India.	Evaluate
MM161.3	Explain how the clothing is used as a universal means of symbolizing roles and social positions.	Understand
MM161.4	Categorize historical Indian costumes.	Analyze
MM161.5	Determine how clothing communicates values, attitude.	Apply
MM161.6	Describe broader perspective of historical Indian costume in context of social, economic and industrial point of view.	Understand



Signature of the faculty

Adya Tiwari

School of Design

Course Outcomes

Course Name: Fashion Illustration and Presentation Women's wear

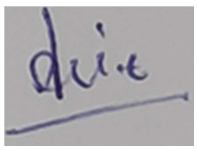
Course Code: FD233

Year: 2019-20

Semester: IV/Autumn Semester

Faculty Name: Prof. (Dr.) Smriti Agarwal

CO Number	Course Outcome statement At the completion of the course, student will be able to	**Taxonomy Level**
FD233.1	Explore experiment and communicate expressions of body-forms.	Apply
FD233.2	Demonstrate fashion presentation skills, render fashion figure with details and basic garment drape.	Understand
FD233.3	Demonstrate competence in hand drawing and graphic skills for visual communication and presentation.	Apply
FD233.4	Understand the female body and movement for modeling	Analysis
FD233.5	Understand different form and movements in illustration.	Understand and apply
FD233.6	Develop women's wear for casual wear	Creat



Signature of the faculty

School of Design

Course Outcomes

Course Name: Fashion Studies-I (Women's Wear-Casual)

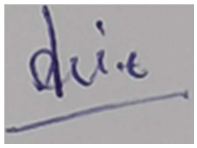
Course Code: FD253

Year: 2019-20

Semester: III/Autumn Semester

Faculty Name: Prof. (Dr.) Smriti Agarwal

CO Number	**Course Outcome statement** At the completion of the course, student will be able to	**Taxonomy Level**
FD253.1	Demonstrate complete knowledge and understanding of the fashion design process of women's wear (casual) for Spring Summer (S/S)2017	Apply
FD253.2	Apply design learning through construction of a range of chosen ensemble	Understand
FD253.3	Exhibit, adapt, utilize & investigate the fashion design process through research, forecast, trend study, art plates, patterns, drapes etc.	Apply
FD253.4	Sketch different styles of apparel with fabric effect	Apply
FD253.5	Use the design process for develop the range or concern specification.	Apply
FD253.6	Understand advance knowledge of pattern cutting.	Understand and Apply



Signature of the faculty

School of Liberal Arts/ School of Science

Course Outcomes

Course Name: **Fashion Economics**

Course Code: MM132

Year: 1 Year

Semester: 2nd Semester

Faculty Name: Prof. (Dr.) Smriti Agarwal

CO Number	**Course Outcome statement** At the completion of the course, student should be able to--	**Taxonomy Level**
MM132.1	Describe economics of world fashion industry.	Understand
MM132.2	Determine the key factors influencing fashion business.	Apply
MM132.3	Evaluate different strategies fashion economics.	Evaluate
MM1.4	Analyze the mechanisms of fashion market and its economic strategies	Analyze
MM110.5	Explain fashion economics cycles and different theories.	Understand
MM110.6	Describe basic statistical methods for data analysis.	Understand

Signature of the faculty

School of Science Design

Course Outcomes

Course Name: **Sustainable Design**

Course Code: AD316

Year: 3rd Year ,19-20

Semester: 6th Semester Autumn Semister

Faculty Name: Prof. (Dr.) Smriti Agarwal

CO Number	**Course Outcome statement** At the completion of the course, student should be able to--	**Taxonomy Level**
AD318.1	Describe the various aspects of sustainable design.	Understand
AD318.2	Predict the market potential of a product.	Analyze
AD318.3	Develop product prototype as per identified craft.	Create
AD318.4	Explain the concept of sustainable design.	Understand
AD318.5	Predict the future trends of market potential of craft products.	Apply
AD318.6	Differentiate estimation and costing of the products.	Understand

Signature of the faculty

School of Design

Course Outcomes

Course Name: **Fashion Materials & Exploration**

Course Code: FD243

Year: 2 Year

Semester: 3rd Semester

Faculty Name: Dr. Sukhvir Singh

CO Number	Course Outcome statement At the completion of the course, student should be able to--	Taxonomy Level
FD202.1	Describe different types of fabrics and materials used in garment manufacturing.	Remember
FD202.2	Explain the concept of innovative silhouettes.	Understand
FD202.3	Analyze suitable materials as per end use.	Analyze
FD202.4	Explain the selection of different type of fashion materials.	Understand
FD202.5	List experimental methods of using fabrics.	Remember
FD202.6	Generating creative draping using different fashion materials.	Create

Sukhvir Singh

Signature of the faculty

School of Fashion and Design

Course Outcomes

Course Name: Computerized Fashion design-Introduction

Course Code: FD263

Year: 2019-20

Semester: Autumn

Faculty Name: Ms. Shikha kapoor

CO Number	Course Outcome statement At the completion of the course, student should be able to--	Taxonomy Level
FD263.1	Demonstrate an understanding of CAD software usage in visualization and presentation of Fashion products.	Understand
FD263.2	vestigate the role of computer as a more sophisticated hodology as compared to traditional methods of hand ving or illustration.	Evaluate
FD263.3	Explain how the clothing is used as a universal means of symbolizing roles and social positions.	Understand
FD263.4	Categorize various computerized design applications	Analyze
FD263.5	Understanding the computer application in fashion design	Apply
FD263.6	Exhibit awareness and understanding about the usage of contemporary technology/ equipment/ digital media resources in current fashion setting.	Apply

Signature of the faculty

MODY UNIVERSITY OF SCIENCE AND TECHNOLOGY
LAKSHMANGARH • RAJASTHAN
A Leading Women's University

School of Design

Course Outcomes

Course Name: **Textile Study I**

Course Code: FD203

Year: 2 Year

Semester: 3rd Semester

Faculty Name: Dr. Sukhvir Singh

CO Number	Course Outcome statement At the completion of the course, student should be able to--	Taxonomy Level
FD202.1	Describe different types of textile fibers.	Remember
FD202.2	Explain the concept of weaving, spinning and knitting.	Understand
FD202.3	Analyze various weaves and their properties.	Analyze
FD202.4	Explain the selection of different fibers as per end use.	Understand
FD202.5	List functions of post spinning operations.	Remember
FD202.6	Generating woven fabrics of plain, twill and satin weave.	Create

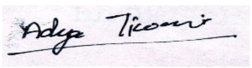
Sukhvir Singh

Signature of the faculty

SCHOOL OF FASHION AND DESIGN

Course Name	**Basic Pattern Making & Draping**
Course Code	FD213
Year	2019 - 2020
Semester	Autumn
Faculty Name	Dr Adya Tiwari

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FD213.1	Describe different types of machines and machine choices to make, needle types, pattern drafting and draping concepts, taking body measurements	Understand
FD213.2	Demonstrate drafting basic pattern set for women in standard sizes, trouser drafting for men's wear	Apply
FD213.3	Develop patterns for variations of bodice using dart manipulation methods - slash & pivot techniques	Create
FD213.4	Types of skirts and their pattern variations	Understand
FD213.5	Develop varied skirt patterns for different skirt styles	Create
FD213.6	Design and develop torso/dress block pattern	Create

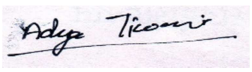


Signature of Faculty:

SCHOOL OF FASHION AND DESIGN

Course Name	**Basic Garment Construction**
Course Code	FD223
Year	2019-2020
Semester	Autumn
Faculty Name	Dr Adya Tiwari

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FD223.1	Sewing machine operation and its maintenance, stitch different types of seams and seam finishes	Apply
FD223.2	Develop samples for adding fullness in garments, placket stitching, neckline finishes, choice of fasteners	Apply
FD223.3	Develop styles in collars, pockets, sleeve with cuff, skirt waistline finishing techniques	Apply
FD223.4	Develop styles of skirts by sewing samples	Apply
FD223.5	Assembling of a skirt with band and fastener	Create
FD223.6	Assembling of dress with fasteners	Create



Signature of Faculty:

SCHOOL OF DESIGN

Course Outcomes

Course Name: Fashion Studies-I (Women's Wear-Casual)

Course Code: FD 253

Year: II Year

Semester: 3rd Semester

Faculty Name: Ms. Shikha Kapoor

CO Number	**Course Outcome statement** At the completion of the course, student will be able to	**Taxonomy Level**
FD253.1	To address a design brief with relevance to casual clothing.	Analyse
FD253.2	Design Casual Women's wear with appropriate silhouettes, embellishments, details ,prints, fabrics etc.	Create
FD253.3	Develop doodles according to the inspirations	Create
FD253.4	Construct a range of chosen ensemble.	Create
FD253.5	Make specification sheets with appropriate details of the designs	Apply
FD253.6	Exhibit, adapt, utilize & investigate the fashion design process through research, forecast, trend study, art plates, patterns, drapes etc.	Apply

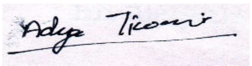
Shikha Kapoor

Signature of the faculty

SCHOOL OF FASHION AND DESIGN

Course Name	**Basic Pattern Making & Draping**
Course Code	FM213
Year	2019-20
Semester	Autumn
Faculty Name	Dr Adya Tiwari

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FD213.1	Describe different types of machines and machine choices to make, needle types, pattern drafting and draping concepts, taking body measurements	Understand
FD213.2	Demonstrate drafting basic pattern set for women in standard sizes, trouser drafting for men's wear	Apply
FD213.3	Develop patterns for variations of bodice using dart manipulation methods - slash & pivot techniques	Create
FD213.4	Types of skirts and their pattern variations	Understand
FD213.5	Develop varied skirt patterns for different skirt styles	Create
FD213.6	Design and develop torso/dress block pattern	Create



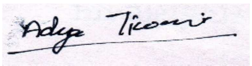
Adya Tiwari

Signature of Faculty:

SCHOOL OF FASHION AND DESIGN

Course Name	**Basic Garment Construction**
Course Code	FM223
Year	2019-20
Semester	Autumn
Faculty Name	Dr Adya Tiwari

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FD223.1	Sewing machine operation and its maintenance, stitch different types of seams and seam finishes	Apply
FD223.2	Develop samples for adding fullness in garments, placket stitching, neckline finishes, choice of fasteners	Apply
FD223.3	Develop styles in collars, pockets, sleeve with cuff, skirt waistline finishing techniques	Apply
FD223.4	Develop styles of skirts by sewing samples	Apply
FD223.5	Assembling of a skirt with band and fastener	Create
FD223.6	Assembling of dress with fasteners	Create



Adya Tiwari

Signature of Faculty:

School of Fashion and Design

Course Outcomes

Course Name: Computerized Fashion design-Introduction

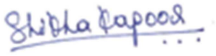
Course Code: FM233

Year: 2019-20

Semester: Autumn

Faculty Name: Ms. Shikha kapoor

CO Number	Course Outcome statement At the completion of the course, student should be able to--	Taxonomy Level
FM233.1	Demonstrate an understanding of CAD software usage in visualization and presentation of Fashion products.	Understand
FM233.2	vestigate the role of computer as a more sophisticated odology as compared to traditional methods of hand ing or illustration.	Evaluate
FM233.3	Explain how the clothing is used as a universal means of symbolizing roles and social positions.	Understand
FM233.4	Categorize various computerized design applications	Analyze
FM233.5	Understanding the computer application in fashion design	Apply
FM233.6	Exhibit awareness and understanding about the usage of contemporary technology/ equipment/ digital media resources in current fashion setting.	Apply



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School of Fashion and Design

Course Outcomes

Course Name: **History of Indian costumes**

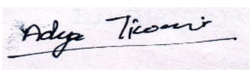
Course Code: FM 243

Year: 2019-20

Semester: Autumn

Faculty Name: Dr. Adya Tiwari

CO Number	Course Outcome statement At the completion of the course, student should be able to--	Taxonomy Level
FM 243.1	Demonstrate the significance of ancient Indian costume in context to the fashion industry as it is today.	Apply
FM 243.2	Conclude the variations in Indian costume through different times in ancient India.	Evaluate
FM 243.3	Explain how the clothing is used as a universal means of symbolizing roles and social positions.	Understand
FM243.4	Categorize historical Indian costumes.	Analyze
FM 243.5	Determine how clothing communicates values, attitude.	Apply
FM 243.6	Describe broader perspective of historical Indian costume in context of social, economic and industrial point of view.	Understand



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Adya Tiwari

SCHOOL OF DESIGN

Course Outcomes

Course Name: Study of Fashion Products

Course Code: FM 263

Year: II Year

Semester: 3rd Semester

Faculty Name: Ms. Shikha Kapoor

CO Number	**Course Outcome statement** At the completion of the course, student will be able to	**Taxonomy Level**
FM263.1	Understand the importance of global sourcing	Understand
FM263.2	production, trade and distribution of apparel products	Apply
FM263.3	Demonstrate the ability to identify fashion trends and forecasting.	Apply
FM263.4	Describe Fashion Concepts.	Understand
FM263.5	Develop design compositions.	Create
FM263.6	Exhibit, adapt, utilize & investigate the fashion design process through research, forecast, trend study, art plates, patterns, drapes etc.	Apply

Shikha Kapoor

Signature of the faculty

School of Design

Course Outcomes

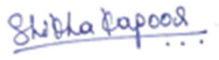
Course Name: Fashion Design Process
Course Code: FM 203

Year: 2 Year

Semester: 3rd Semester

Faculty Name: Ms. Shikha Kapoor

CO Number	Course Outcome statement At the completion of the course, student should be able to--	Taxonomy Level
FM203.1	Demonstrate complete knowledge and understanding of the importance of bringing design to retail.	Understand
FM203.2	Understand the importance of quick response to the constant changes of the fashion systems and envision its future.	Understand
FM203.3	Should understand consumer demands and catering to it.	Understand
FM203.4	Research & Analyze trends, market, consumer and brands.	Analyze
FM203.7	Understand Retail cycle.	Understand
FM203.6	Identify project & client to develop a range of products following design process.	Create



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SCHOOL OF DESIGN

Course Outcomes

Course Name: Fashion Studies

Course Code: FM 253

Year: II Year

Semester: 3rd Semester

Faculty Name: Ms. Shikha Kapoor

CO Number	**Course Outcome statement** At the completion of the course, student will be able to	**Taxonomy Level**
FM253.1	Describe the importance of design elements and principles.	Understand
FM253.2	Demonstrate complete knowledge of design thinking and composition in fashion.	Apply
FM253.3	Demonstrate the ability to identify fashion trends and forecasting.	Apply
FM253.4	Describe Fashion Concepts.	Understand
FM253.5	Develop design compositions.	Create
FM253.6	Exhibit, adapt, utilize & investigate the fashion design process through research, forecast, trend study, art plates, patterns, drapes etc.	Apply

Shikha Kapoor

Signature of the faculty

School of Design

Course Outcomes

Course Name: Fashion Illustration and Presentation men's wear

Course Code: FD325

Year: 2019-20

Semester: Autumn Semester

Faculty Name: Prof. (Dr.) Smriti Agarwal

CO Number	**Course Outcome statement** At the completion of the course, student will be able to	**Taxonomy Level**
FD325.1	Demonstrate complete knowledge and understanding of the men garment design and pattern.	Apply
FD325.2	Apply design learning through construction of a men's wear range with illustration.	Understand & Apply
FD325.3	Exhibit, adapt, utilize & investigate the fashion design process through digital software with different fabric effect	Apply
FD325.4	Sketch different styles of apparel with fabric effect	Apply
FD325.5	Use the different software for men's garments illustration able to direct editing	Apply
FD325.6	Understand the design communication and visually and verbally	Analysis

Signature of the faculty

School of Design

Course Outcomes

Course Name: **Design Studio –V (Metal Casting &Leather Craft)**

Course Code: AD 315

Year: Third Year

Semester: V Semester

Faculty Name: Mr. Deepak Khandelwal

CO Number	**Course Outcome statement** At the completion of the course, student should be able to--	**Taxonomy Level**
AD315.1	Understand various properties of Metal &Leather it's processing and product manufacturing process.	Understand
AD315.2	Able to draft required 2D patterns essential for leather product making.	Apply
AD315.3	Able to develop concept and detailed drawing for metal based manufacturing process.	Create
AD315.4	Develop knowledge and skill related to leather stitching and pasting.	Create
AD315.5	Concept model making using paper. Fashion product development with leather.	Apply and Create
AD315.6	Compilation of the entire learning of the module.	Create

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School of Design

Course Outcomes

Course Name: **Product Illustration**

Course Code: AD 335

Year: Third Year

Semester: V Semester

Faculty Name: Mr. Deepak Khandelwal

CO Number	**Course Outcome statement** At the completion of the course, student should be able to--	**Taxonomy Level**
AD335.1	Demonstrate complete knowledge and understating of the importance of product illustration.	Apply
AD335.2	Exhibit, adapt & utilize the role of product illustration in design.	Analyze
AD335.3	Demonstrate the ability to handle different color application.	Apply and Understand

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SCHOOL OF DESIGN

Course Outcomes

Course Name: VISUAL MERCHANDISING

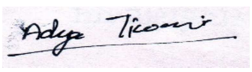
Course Code: AD 355

Year: 2019-20

Semester: Autumn

Faculty Name: Dr. Adya Tiwari

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
AD 355.1	Understand the need and importance of creativity and technicality of visual merchandising in retail.	Understand
AD 355.2	Examine concepts and skills learned in the classroom with respect of visual merchandising through visit to Malls.	Apply
AD 355.3	Analyze from various case studies about the window displays and floor layouts.	Analyze
AD 355.4	Compare and conclude the best window displays and floor layouts between brands through case studies.	Evaluate
AD 355.5	Develop window display and create floor layouts by designing a 3D model.	Create
AD 355.6	Identify their abilities as a potential visual merchandiser and expand their horizon as a merchandiser.	Remember



Adya Tiwari
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School of Design

Course Outcomes

Course Name: **Marketing and Promotion**

Course Code: AD 375

Year: 3rd Year

Semester: 5th Semester

Faculty Name: Dr. Sukhvir Singh

CO Number	Course Outcome statement At the completion of the course, student should be able to--	Taxonomy Level
FD202.1	Describe different types marketing mixes.	Remember
FD202.2	Explain the concept of market segmentation.	Understand
FD202.3	Analyze when to conduct market research.	Analyze
FD202.4	Explain the selection of different ways of branding.	Understand
FD202.5	List functions of marketing and brand mangers.	Remember
FD202.6	Generating market research reports specific to a problem.	Create

Sukhvir Singh

Signature of the faculty

School of Design

Course Outcomes

Course Name: Design Studio –IV (Ergonomics)

Course Code: AD305

Year: Third Year

Semester: V Semester

Faculty Name: Mr. Deepak Khandelwal

CO Number	**Course Outcome statement** At the completion of the course, student should be able to--	**Taxonomy Level**
AD326.1	Understand various factors affecting human performance.	Understand
AD326.2	Able to develop concept and detailed drawing for specialized problem.	Create
AD326.3	Exhibiting the knowledge and skill for product development.	Understand and Apply
AD326.4	Compilation of the entire learning from the module.	Create

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School of Design

Course Outcomes

Course Name: Trend, Spotting and forecasting

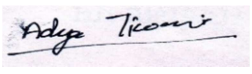
Course Code: AD 324

Year: 2019-20

Semester: Autumn

Faculty Name: Dr Adya Tiwari

CO Number	Course Outcome statement At the completion of the course, student should be able to--	Taxonomy Level
FM 326.1	Study fashion forecasting in order to ideate future tastes and preference	Understand
FM 326.2	Examine branding and the ways that brands acquire and sustain value in the marketplace	Understand
FM 326.3	Able to analyse the international market technically to predict trends accurately	Analyze
FM 326.4	Identify, understand, and apply the methods and tools used by Brands – by solving Case Studies.	Understand
FM 326.5	Strategically create Forecasting model for a market/brand – and to understand the various tools used to apply the same	Remember
FM 326.6	Understand the process of brand promotion .	Understand



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School of Design

Course Outcomes

Course Name: Trend, Spotting and forecasting

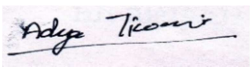
Course Code: AD 324

Year: 2019-20

Semester: Autumn

Faculty Name: Dr Adya Tiwari

CO Number	Course Outcome statement At the completion of the course, student should be able to--	Taxonomy Level
FM 326.1	Study fashion forecasting in order to ideate future tastes and preference	Understand
FM 326.2	Examine branding and the ways that brands acquire and sustain value in the marketplace	Understand
FM 326.3	Able to analyse the international market technically to predict trends accurately	Analyze
FM 326.4	Identify, understand, and apply the methods and tools used by Brands – by solving Case Studies.	Understand
FM 326.5	Strategically create Forecasting model for a market/brand – and to understand the various tools used to apply the same	Remember
FM 326.6	Understand the process of brand promotion .	Understand



Adya Tiwari
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School of Design

Course Outcomes

Course Name: **CAD Rhino**

Course Code: AD365

Year: 2019-20

Semester: VIth Semester

Faculty Name: Ms. Taruna Vasu

CO Number	**Course Outcome statement** At the completion of the course, student should be able to--	**Taxonomy Level**
AD365.1	Exploring the possibilities of 3D software.	Understand
AD365.2	Utilizing the features of the Rhino used for designing objects.	Remember and Apply
AD365.3	To create an ability to model with precision	Create
AD365.4	Creating a 3D prototype of products	Apply and Create
AD365.5	Rendering and exhibiting the products	Apply and Create

Signature of the faculty

School of Design

Course Outcomes

Course Name: Craft based Design Project

Course Code: AD325

Year: 2019-20

Semester: Autumn Semester

Faculty Name: Prof. (Dr.) Smriti Agarwal

CO Number	**Course Outcome statement** At the completion of the course, student will be able to	**Taxonomy Level**
AD325.1	Demonstrate complete knowledge and understanding of the Traditional craft scheme for artisans	Apply
AD325.2	Process learn for design development	Understand & Apply
AD325.3	Product development –learn the functional properties of product and market	Apply
AD325.4	Understand the cultural craft and development process	Apply
AD325.5	Research for documentation of traditional craft	Apply
AD325.6	Design development with application of contemporary elements.	Analysis

Signature of the faculty

School of Design

Course Outcomes

Course Name: Fashion Illustration and Presentation men's wear

Course Code: FD325

Year: 2019-20

Semester: Autumn Semester

Faculty Name: Prof. (Dr.) Smriti Agarwal

CO Number	**Course Outcome statement** At the completion of the course, student will be able to	**Taxonomy Level**
FD325.1	Demonstrate complete knowledge and understanding of the men garment design and pattern.	Apply
FD325.2	Apply design learning through construction of a men's wear range with illustration.	Understand & Apply
FD325.3	Exhibit, adapt, utilize & investigate the fashion design process through digital software with different fabric effect	Apply
FD325.4	Sketch different styles of apparel with fabric effect	Apply
FD325.5	Use the different software for men's garments illustration able to direct editing	Apply
FD325.6	Understand the design communication and visually and verbally	Analysis

Signature of the faculty

School of Design

Course Outcomes

Course Name: **Merchandising and Production Methods**

Course Code: FD335

Year: 3rd Year

Semester: 5th Semester

Faculty Name: Dr. Sukhvir Singh

CO Number	Course Outcome statement At the completion of the course, student should be able to--	Taxonomy Level
FD202.1	Describe different types of merchandising.	Remember
FD202.2	Explain the concept of visual and retail merchandising.	Understand
FD202.3	Analyze various types of retail and export formats.	Analyze
FD202.4	Explain the selection of different production methods.	Understand
FD202.5	List functions of different merchandise manager.	Remember
FD202.6	Generating different types of samples used in garment production.	Create

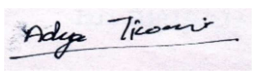
Sukhvir Singh

Signature of the faculty

SCHOOL OF FASHION AND DESIGN

Course Name	**Pattern Making & Grading menswear**
Course Code	FD305
Year	2019-20
Semester	Autumn
Faculty Name	Dr. Adya Tiwari

CO Number	**Course Outcome statement** At the completion of the course, student will be able to	**Taxonomy Level**
FD305. 1	Describe ISO & ASTM Standards, Specification for specific garment manufacturing and flat drawings, other features of specification sheets, garment cost sheet	Understand
FD305.2	Explain and differentiate specification sheets and cost sheets for men's wear garments full arm shirt, classic trouser, cigarette pants, yoke pants, jacket, waistcoat, ISO naming of stitches used	Understand
FD305.3	Drafting patterns for basic men's bodice, sleeve blocks, basic trouser blocks	Create
FD305.4	Menswear garment finishing methods for jackets, shirt collars, trouser bands, different types of fasteners used, placket styles	Understand
FD305.5	Develop menswear designs, flat drawings and spec sheets for shirt, jacket, waistcoat, classic trouser, jean pant, baggy trousers, cigarette pants	Create
FD305.6	Develop garments patterns for menswear shirt, trouser, jacket, waistcoat, jean pants, cigarette pants, baggy trousers by application of pattern alteration methods	Create



Adya Tiwari

Signature of Faculty:

SCHOOL OF FASHION AND DESIGN

Course Name	**Pattern Making & Grading menswear**
Course Code	FD305
Year	2019-2020
Semester	Autumn
Faculty Name	Ms. Smitha D Rao

CO Number	**Course Outcome statement** At the completion of the course, student will be able to	**Taxonomy Level**
FD305. 1	Describe ISO & ASTM Standards, Specification for specific garment manufacturing and flat drawings, other features of specification sheets, garment cost sheet	Understand
FD305.2	Explain and differentiate specification sheets and cost sheets for men's wear garments full arm shirt, classic trouser, cigarette pants, yoke pants, jacket, waistcoat, ISO naming of stitches used	Understand
FD305.3	Drafting patterns for basic men's bodice, sleeve blocks, basic trouser blocks	Create
FD305.4	Menswear garment finishing methods for jackets, shirt collars, trouser bands, different types of fasteners used, placket styles	Understand
FD305.5	Develop menswear designs, flat drawings and spec sheets for shirt, jacket, waistcoat, classic trouser, jean pant, baggy trousers, cigarette pants	Create
FD305.6	Develop garments patterns for menswear shirt, trouser, jacket, waistcoat, jean pants, cigarette pants, baggy trousers by application of pattern alteration methods	Create

Signature of Faculty:

SCHOOL OF FASHION AND DESIGN

Course Name	**Garment Construction for Men's Wear**
Course Code	FD315
Year	2019-20
Semester	Autumn
Faculty Name	Dr. Adya Tiwari

CO Number	**Course Outcome statement** At the completion of the course, student will be able to	**Taxonomy Level**
FD315. 1	Explain fabric layout and cutting of trousers, shirt, jacket, waistcoat and seam allowances, fabric consumption and estimation	Understand
FD315.2	Describe types of seams used, linings, interlinings, fusible applied in various menswear garments	Understand
FD315.3	Construction of menswear full arm formal shirt according to standard size and finishing with right seams finishes and fasteners	Create
FD315.4	Construction of menswear trouser styles for classic trouser, baggy trousers, jean pants with yoke, baggy trousers	Create
FD315.5	Construction of menswear waistcoat according to standard size and finishing with right seams finishes and fasteners	Create
FD315.6	Construction of menswear jacket according to standard size and finishing with right seams finishes, linings, interlinings, and fasteners	Create

Adya Tiwari
Signature of Faculty:

SCHOOL OF FASHION AND DESIGN

Course Name	**Garment Construction menswear**
Course Code	FD315
Year	2019-2020
Semester	Autumn
Faculty Name	Ms. Smitha D Rao

CO Number	**Course Outcome statement** At the completion of the course, student will be able to	**Taxonomy Level**
FD315. 1	Explain fabric layout and cutting of trousers, shirt, jacket, waistcoat and seam allowances, fabric consumption and estimation	Understand
FD315.2	Describe types of seams used, linings, interlinings, fusible applied in various menswear garments	Understand
FD315.3	Construction of menswear full arm formal shirt according to standard size and finishing with right seams finishes and fasteners	Create
FD315.4	Construction of menswear trouser styles for classic trouser, baggy trousers, jean pants with yoke, baggy trousers	Create
FD315.5	Construction of menswear waistcoat according to standard size and finishing with right seams finishes and fasteners	Create
FD315.6	Construction of menswear jacket according to standard size and finishing with right seams finishes, linings, interlinings, and fasteners	Create

Signature of Faculty:

SCHOOL OF DESIGN

Course Outcomes

Course Name: Fashion Studies- III (Men's Wear Project) Part A

Course Code: FD 355

Year: III Year

Semester: 5th Semester

Faculty Name: Ms. Shikha Kapoor

CO Number	**Course Outcome statement** At the completion of the course, student will be able to	**Taxonomy Level**
FM356 &366.1	Develop Boards according to Client requirements	Create
FM356 &366.2	Develop prototypes, tech packs, and patterns.	Create
FM356 &366.3	Compose derivations, scrap books, doodles, and rendered illustrations surface ornamentations and promotional plans for men's wear.	Create
FM356 &366.4	Choose Fabrics and surface explorations for specific markets and segments of men's wear.	Evaluate
FM356 &366.5	Assess market, brand and client profile for men's Wear	Evaluate
FM356 &366.6	Develop a range of men's wear through design process	Create

Shikha Kapoor

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Course Outcomes

Course Name: Fashion Studies- III (Men's Wear Project) Part B

Course Code: FD 365

Year: III Year

Semester: 5th Semester

Faculty Name: Ms. Shikha Kapoor

CO Number	**Course Outcome statement** At the completion of the course, student will be able to	**Taxonomy Level**
FM356 &366.1	Develop Boards according to Client requirements	Create
FM356 &366.2	Develop prototypes, tech packs, and patterns.	Create
FM356 &366.3	Compose derivations, scrap books, doodles, and rendered illustrations surface ornamentations and promotional plans for men's wear.	Create
FM356 &366.4	Choose Fabrics and surface explorations for specific markets and segments of men's wear.	Evaluate
FM356 &366.5	Assess market, brand and client profile for men's Wear	Evaluate
FM356 &366.6	Develop a range of men's wear through design process	Create

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Course Outcomes

Course Name: Product pricing and selling

Course Code: FM 305

Year: 2019-20

Semester: Autumn

Faculty Name: Mr. Sushil Kumar Bishnoi

CO Number	Course Outcome statement At the completion of the course, student should be able to--	Taxonomy Level
FM305.1	Introduction to product cost, techniques used in buying and planning process.	Understand
FM305.2	Demonstrate grounding in accounting and costing approaches used in the Fashion Industries.	Apply
FM305.3	Develop strategy for order and project management.	Create
FM305.4	To study Calculating mark ups and mark downs.	Understand
FM305.5	To understand strategies used for pricing.	Understand
FM305.6	Explain appropriate quantitative and qualitative approaches to identify, formulate and solve problems relating to contemporary business challenges.	Understand

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Course Outcomes

Course Name: **Enterprise Resource Planning**

Course Code: FM 315

Year: 2019-20

Semester: Autumn

Faculty Name: Dr Adya Tiwari

CO Number	Course Outcome statement At the completion of the course, student should be able to--	Taxonomy Level
FM315.1	Describe the concept of Enterprise Resource Planning and Management.	Understand
FM315.2	Demonstrate various practical applications of manufacturing.	Apply
FM315.3	Develop strategy for order and project management.	Create
FM315.4	Describe various terms such as BOM, WOM, Limitation and scope of ERP.	Understand
FM315.5	Explain characteristics of an Entrepreneur.	Understand
FM315.6	Explain different applications of various accounting.	Understand

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Course Outcomes

Course Name: Retail Structure and & Different Retailing Techniques

Course Code: FM 325

Year: 3rd

Semester: 6th

Faculty Name: Mr. Sushil K. Bishnoi

CO Number	Course Outcome statement At the completion of the course, student should be able to--	Taxonomy Level
MM 325.1	Explain the importance of understanding the basics of retail market with respect to fashion business.	Understand
MM 325.2	Explain the different retail formats and their processes in professional manner.	Remember
MM 325.3	Recognize the economic influence of retail sector and appreciate the management process in retailing.	Analyze
MM 325.4	Demonstrate a strong sense of decision making.	Evaluate
MM 325.5	Demonstrate understanding of different basic and advance tools used in fashion retailing and appropriate skills	Apply
MM 325.6	Exhibit comprehensive knowledge of Fashion Retail and applying the principles in the real business world.	Apply

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Course Outcomes

Course Name: Fashion Communication and Publishing

Course Code: FM 335

Year: 3rd

Semester: 6th

Faculty Name: Mr. Sushil K. Bishnoi

CO Number	Course Outcome statement At the completion of the course, student should be able to--	Taxonomy Level
MM 335.1	Explain the history of magazine production from its beginning to its latest trends, with a specific focus on the fashion magazine.	Understand
MM 335.2	Explain the business of publishing; the role of publishers and how they relate to other departments on a typical commercial magazine	Remember
MM 335.3	Recognize and understand how editorial departments work.	Analyze
MM 335.4	Demonstrate creating good content based around preparation, commissioning and checking/subbing material; planning cycles; news, features and reviews	Evaluate
MM 335.5	Demonstrate Writing for advertising, for Public Relations, and for the New Media – strategies.	Apply
MM 335.6	Exhibit the creative and business sides of magazine publishing and develop a magazine business proposal and mock-up based on their own.	Create

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Course Outcomes

Course Name: Fashion Event Management

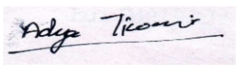
Course Code: FM 345

Year: 3rd

Semester: 6th

Faculty Name: Dr Adya Tiwari

CO Number	Course Outcome statement At the completion of the course, student should be able to--	Taxonomy Level
MM 345.1	Explain the event Management, Size & type of event, Event team, Code of ethics.	Understand
MM 345.2	Explain Principles of event Management	Remember
MM 345.3	Recognize Protocols, Dress codes, staging, staffing	Analyze
MM 345.4	Demonstrate management of social media tools aimed at fashion event management and various fashion shows and social awareness events;	Evaluate
MM 345.5	Demonstrate Writing creatively for an upcoming event; work with event layout and, eventually, create new ones, according to the target audience of the magazine itself.	Apply
MM 345.6	Exhibit fashion event conduction proposals and project in all their mechanical and editorial aspects	Create



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Course Outcomes

Course Name: Fashion Event Management

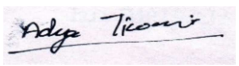
Course Code: FM 345

Year: 3rd

Semester: 6th

Faculty Name: Dr Adya Tiwari

CO Number	Course Outcome statement At the completion of the course, student should be able to--	Taxonomy Level
MM 345.1	Explain the event Management, Size & type of event, Event team, Code of ethics.	Understand
MM 345.2	Explain Principles of event Management	Remember
MM 345.3	Recognize Protocols, Dress codes, staging, staffing	Analyze
MM 345.4	Demonstrate management of social media tools aimed at fashion event management and various fashion shows and social awareness events;	Evaluate
MM 345.5	Demonstrate Writing creatively for an upcoming event; work with event layout and, eventually, create new ones, according to the target audience of the magazine itself.	Apply
MM 345.6	Exhibit fashion event conduction proposals and project in all their mechanical and editorial aspects	Create



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Course Outcomes

Course Name: Supply Chain & Product Sourcing

Course Code: FM 355

Year: 3rd

Semester: 6th

Faculty Name: Mr. Sushil K. Bishnoi

CO Number	Course Outcome statement At the completion of the course, student should be able to--	Taxonomy Level
MM 355.1	Understand micro and macro factors affecting fashion sourcing and supply chains, and apply appropriate strategies to resolve problems in a global context.	Understand
MM 355.2	Understand the imperative for balance between fashion innovation, risk and commerce to determine sustainable supply chain models.	Remember
MM 355.3	Evaluate sustainability and environmental problems that may occur in fashion supply chains	Analyze
MM 355.4	Understand of the role and functions of SCM in a market-oriented society.	Evaluate
MM 355.5	Demonstrate comprehensive analysis and discussion of key contemporary issues and problems.	Apply
MM 355.6	Demonstrate the principles of logistics management through SCM	Apply

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Course Outcomes

Course Name: **Production Planning and Control**

Course Code: FM 313

Year: 3rd Year

Semester: 5th Semester

Faculty Name: Dr. Sukhvir Singh

CO Number	Course Outcome statement At the completion of the course, student should be able to--	Taxonomy Level
FD202.1	Describe different types of manufacturing systems.	Remember
FD202.2	Explain the concept of garment production process.	Understand
FD202.3	Analyze various dyeing and printing defects.	Analyze
FD202.4	Explain the selection of manufacturing system as per the needs.	Understand
FD202.5	List functions of SAM, SMV, WIP, Bottleneck	Remember
FD202.6	Generating line balancing calculation.	Create

Sukhvir Singh

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Course Outcomes

Course Name: **Major Project**

Course Code: FD 407

Year: 4th Year

Semester: 8th Semester

Faculty Name: Dr. Sukhvir Singh

CO Number	Course Outcome statement At the completion of the course, student should be able to--	Taxonomy Level
FD202.1	Describe the use of different types of materials.	Remember
FD202.2	Explain the concept of fashion design process.	Understand
FD202.3	Analyze various steps of design process.	Analyze
FD202.4	Explain the selection of different materials as per requirement of garment collection.	Understand
FD202.5	List of various items used in garments.	Remember
FD202.6	Generating five garments based on different themes.	Create

Sukhvir Singh

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Course Outcomes

Course Name: Internship

Course Code: FM 407

Year: 4th

Semester: 7th

Faculty Name: Mr. Sushil K. Bishnoi

CO Number	Course Outcome statement At the completion of the course, student should be able to--	Taxonomy Level
FM 407.1	Understand a broad range of marketing/fashion concepts and terms.	Understand
FM 407.2	Understand the importance of the basic elements of the market mix, target market and the development of a marketing strategy.	Remember
FM 407.3	Apply marketing/fashion concepts to changing marketing situations.	Analyze
FM 407.4	Demonstrate a strong sense of decision making.	Evaluate
FM 407.5	Develop the initiative and work habits that will make them successful in a broad range of all marketing/fashion environments.	Apply
FM 407.6	Gain experience in specific skills in the marketing/fashion merchandising industry.	Apply

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Course Outcomes

Course Name: Major Project

Course Code: FM 417

Year: 4th

Semester: 7th

Faculty Name: Mr. Sushil K. Bishnoi

CO Number	Course Outcome statement At the completion of the course, student should be able to--	Taxonomy Level
FM 417.1	carry out literature survey, compile text material and pursue project on any specific topic	Understand
FM 417.2	Understand the importance of the basic elements of the market mix, target market and the development of a marketing strategy.	Remember
FM 417.3	Apply marketing/fashion concepts to changing marketing situations.	Analyze
FM 417.4	Demonstrate a strong sense of decision making.	Evaluate
FM 417.5	Develop the initiative and work habits that will make them successful in a broad range of all marketing/fashion environments.	Apply
FM 417.6	Gain experience in specific skills in the marketing/fashion merchandising industry.	Apply

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Course Outcomes

Course Name: **Fashion Economics**

Course Code: MM132

Year: 2019-20

Semester: II Semester/Spring

Faculty Name: Prof. (Dr.) Smriti Agarwal

CO Number	**Course Outcome statement** At the completion of the course, student should be able to--	**Taxonomy Level**
MM132.1	Describe economics of world fashion industry.	Understand
MM132.2	Determine the key factors influencing fashion business.	Apply
MM132.3	Evaluate different strategies fashion economics.	Evaluate
MM132.4	Analyze the mechanisms of fashion market and its economic strategies	Analyze
MM110.5	Explain fashion economics cycles and different theories.	Understand
MM110.6	Describe basic statistical methods for data analysis.	Understand

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Course Outcomes

Course Name: Merchandiser's Roles & Responsibilities

Course Code: MM 112

Year: 1st

Semester: 2nd

Faculty Name: Mr. Sushil K. Bishnoi

CO Number	Course Outcome statement At the completion of the course, student should be able to--	Taxonomy Level
FM 214.1	Explain the key roles and responsibilities of a Merchandiser in the retail sector	Understand
FM 214.2	Development & presentations of product lines in both the manufacturing and retail sectors (domestic & global market)e and ensuring organizational profitability	Remember
FM 214.3	Monitoring stock levels and performance range as well as promotional strategies	Analyze
FM 214.4	Demonstrate complete knowledge and understanding of the importance of the roles and responsibilities of a Merchandiser.	Evaluate
FM 214.5	Apply learning through analysis, data collection, observation, developmental strategies to Explain potential customers.	Apply
FM 214.6	Exhibit, adapt, utilize &investigate the responsibilities of a Merchandiser in ensuring organizational profitability	Apply

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Course Outcomes

Course Name: Types of Buyers and Buying Organizations

Course Code: MM 122

Year: 1st

Semester: 2nd

Faculty Name: Mr. Sushil K. Bishnoi

CO Number	Course Outcome statement At the completion of the course, student should be able to--	Taxonomy Level
MM 122.1	Explain different motivations of a consumer and organizational buyers	Understand
MM 122.2	Formulate strategies for approaching consumer and organizational buyers	Remember
MM 122.3	Recognize the importance of relationship management	Analyze
MM 122.4	Demonstrate complete knowledge and understanding of the importance of the types of buyers and organizational buying behavior.	Evaluate
MM 122.5	Apply learning through data collection, study, observation, analysis of the life cycle of buying patterns.	Apply
MM 122.6	Exhibit, adapt, utilize &investigate the buying behavior and pattern of an organization to facilitate effective operational strategies.	Apply

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Course Outcomes

Course Name: Fashion Brand Management

Course Code: MM 152

Year: 1st

Semester: 2nd

Faculty Name: Mr. Sushil K. Bishnoi

CO Number	Course Outcome statement At the completion of the course, student should be able to--	Taxonomy Level
MM 152.1	Demonstrate complete knowledge, skills and understanding of the importance of brand management	Understand
MM 152.2	Apply learning in the field of marketing, communication and event planning, brand management, retail, visual merchandising, e-commerce and the search for new trends	Remember
MM 152.3	Recognize the importance of relationship management	Analyze
MM 152.4	Develop a brand identity to match the spirit of the period and play a leading role in managing brand labels.	Evaluate
MM 152.5	Apply Principles & practices of Fashion brand management and their application in fashion companies, consulting firms, trade associations, fashion, and luxury and lifestyle trends.	Apply
MM 152.6	Exhibit, adapt, utilize &investigate the key role of brand identity & futuristic fashions.	Apply

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Course Outcomes

Course Name: **Fashion Marketing**

Course Code: MM110

Year: 1 Year

Semester: 2nd Semester

Faculty Name: Dr. Sukhvir Singh

CO Number	Course Outcome statement At the completion of the course, student should be able to--	Taxonomy Level
MM110.1	Describe systematically the steps involved in a market research.	Understand
MM110.2	Predict consumer behavior based on segmentation variables.	Apply
MM110.3	Design different strategies related to fashion marketing.	Create
MM110.4	Explain fashion marketing functions, system and process.	Understand
MM110.5	Explain 4P and 7P of marketing mixes.	Understand
MM110.6	Describe basic statistical methods for data analysis.	Understand

Sukhvir Singh

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Course Outcomes

Course Name: Communication Design-II

Course Code: FD 132

Year: 1st

Semester: 1st

Faculty Name: Mr. Sushil K. Bishnoi

CO Number	Course Outcome statement At the completion of the course, student should be able to--	Taxonomy Level
FD 132.1	Explain significance, effectiveness and importance of different sensory organs.	Understand
FD 132.2	Explain the evolution of communication.	Remember
FD 132.3	Recognize the role of communication in society.	Analyze
FD 132.4	Demonstrate use of tenses in different media writing.	Evaluate
FD 132.5	Demonstrate creative Writing – principles and methods of effective writing.	Apply
FD 132.6	Exhibit an ability to understand the masses and express utmost creativity through writing.	Create

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Course Outcomes

Course Name: Design Concept-II

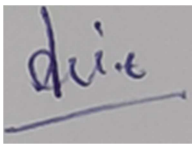
Course Code: FD102

Year: 2019-20

Semester: II Semester/Spring

Faculty Name: Prof. (Dr.) Smriti Agarwal

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FD102.1	Use different techniques for developing representation skill to aid design ideation & visualization	Apply
FD102.2	Demonstrate complete knowledge and understanding of the2D-3D illustration	Apply
FD102.3	Understand and develop surface in different way	Analysis
FD102.4	Analysis need and Apply source of inspiration to develop surface.	Analysis
FD102.5	Exhibit, adapt, apply, utilize & investigate the role of design ideation and visualization.	Apply
FD102.6	Ability of the student to represent 3D objects along with surface material specification	Apply



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Course Outcomes

Course Name: History of Art and Culture-II

Course Code: FD142

Year: 2019-20

Semester: II Semester/Spring

Faculty Name: Prof. (Dr.) Smriti Agarwal

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FD142.1	Demonstrate complete knowledge and understanding of the importance of western art & culture	Understand
FD142.2	Demonstrate complete knowledge and understanding of the social cultural development during World War-I,II	Understand
FD142.3	Apply learning through effective presentations & documentation of significant change in the art movements.	Analysis
FD142.4	Analysis need and Apply source of inspiration to develop documents regarding the ages in different geographical, cultural& socio-economical context.	Analysis
FD142.5	Exhibit, adapt, apply, utilize & investigate the role of Oriental art& culture prepare theoretical report with avoidances	Understand
FD142.6	Ability of the student to represent Textures along with Historical art.	Understand

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Course Outcomes

Course Name: **Visualization & Representation**

Course Code: FD112

Year: 2019-20

Semester: 2nd Semester

Faculty Name: Mr. Deepak Khandelwal

CO Number	**Course Outcome statement** At the completion of the course, student should be able to--	**Taxonomy Level**
FD112.1	Demonstrate complete knowledge and understanding of surface rendering techniques.	Apply
FD112.2	Apply learning through a development of all material rendering.	Apply
FD112.3	Exhibit, adapt, apply & utilize the study of light and shade in design.	Remember and Apply
FD112.4	Ability of the student to represent 3D objects along with surface and material specification.	Create

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Course Outcomes

Course Name: **Material Exploration & Prototyping**

Course Code: FD122

Year: 2019-20

Semester: 2nd Semester

Faculty Name: Mr. Deepak Khandelwal

CO Number	Course Outcome statement At the completion of the course, student should be able to--	Taxonomy Level
FD122.1	Demonstrate complete knowledge and understanding of the importance of pre and post production aspects of material.	Apply
FD112.2	Apply learning through hands-on experience of exploring tools, equipment & machinery for undertaking the process of design.	Apply and Remember
FD112.3	Exhibit, adapt, utilize, and investigate the role of material exploration for design translation through an assimilation of diverse inputs.	Analyze and Apply

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Course Outcomes

Course Name: **Fashion Studies-II (Women's wear-Indian)**

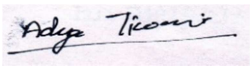
Course Code: FD 254

Year: 2020-21

Semester: 4th Semester (autumn)

Faculty Name: Dr. Adya Tiwari

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FM254.1	Identify the segment category of Indian Wear.	Remember
FM254.2	Outline market trends, forecasts and brands for specific Indian Wear ensembles	Analyse
FM254.3	Compose derivations, scrap books and doodles.	Create
FM254.4	Choose Fabrics and surface explorations	Evaluate
FM254.5	Assess client profile.	Evaluate
FM254.6	Design an Indian wear collection through design process	Create



Adya Tiwari

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Course Outcomes

Course Name: Dissertation

Course Code: MM 204

Year: 2nd

Semester: 4th

Faculty Name: Mr. Sushil K. Bishnoi

CO Number	Course Outcome statement At the completion of the course, student should be able to--	Taxonomy Level
MM 204.1	Understand a full range of research skills to arrive at holistic solutions.	Understand
MM 204.2	Understand and utilize specialized skills across a focused area of study.	Remember
MM 204.3	Exhibit comprehensive knowledge of the subject and presenting one's work to a professional standard.	Analyze
MM 204.4	Demonstrate individually design and conduct research into fashion merchandising areas.	Evaluate
MM 204.5	Demonstrate capacity for critical evaluation and judgment of new knowledge, concepts and evidence form a range of sources to propose a commercially feasible solution for the situation at hand.	Apply
MM 204.6	Apply quantitative skills to analyze, interpret and extrapolate market, production and financial data.	Apply

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Course Outcomes

Course Name: Portfolio Development

Course Code: MM 214

Year: 2nd

Semester: 4th

Faculty Name: Mr. Sushil K. Bishnoi

CO Number	Course Outcome statement At the completion of the course, student should be able to--	Taxonomy Level
MM 214.1	Understand the Portfolio development process and different categories of portfolios and their usage.	Understand
MM 214.2	Understand web resources for optimal outreach and accessibility.	Remember
MM 214.3	Exhibit comprehensive knowledge of the subject and presenting one's work to a professional standard.	Analyze
MM 214.4	Demonstrate a strong sense of visual communication.	Evaluate
MM 214.5	Structure the design and research process and record/ document in a comprehensible manner.	Apply
MM 214.6	Demonstrates appropriate skills and knowledge for the broader context of subject such as textiles, photography and graphics.	Apply

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Course Outcomes

Course Name: **Dissertation**

Course Code: MM202

Year: 2 Year

Semester: 4th Semester

Faculty Name: Dr. Sukhvir Singh

CO Number	Course Outcome statement At the completion of the course, student should be able to--	Taxonomy Level
MM202.1	Explain the research methodologies used for different types of research design.	Understand
MM202.2	Analyse the trends in data collected from primary and secondary sources.	Analyse
MM202.3	Conclude the findings from literature review and experimental work.	Evaluate
MM202.4	Describe basic statistical tools and techniques.	Understand
MM202.5	Interpret behavior of consumers, trends competition and commercial analysis.	Understand
MM202.6	Differentiate which factor if significantly influencing the observed response.	Understand

Sukhvir Singh

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School of Design

Course Outcomes

Course Name: Design Studio II (Ready to wear Accessories)

Course Code: AD 214

Year: 2nd Year

Semester: 4th Semester

Faculty Name: Shikha Kapoor

CO Number	Course Outcome statement At the completion of the course, student should be able to--	Taxonomy Level
AD214.1	Understand the history and importance of fashion accessories in apparel industry.	Understand
AD214.2	Coordinate accessories and outfits.	Apply
AD214.3	Restyle from a plain accessory.	Create
AD214.4	Design and illustrate accessories	Create
AD214.5	Make different ready to wear accessories.	Create
AD214.6	Compile entire learning in the form of a document.	Analyze

Shikha Kapoor

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School of Design

Course Outcomes

Course Name: Design Studio II (Ready to wear Accessories)

Course Code: AD 254

Year: 2nd Year

Semester: 4th Semester

Faculty Name: Shikha Kapoor

CO Number	Course Outcome statement At the completion of the course, student should be able to--	Taxonomy Level
AD254.1	Understand the history and importance of fashion accessories in apparel industry.	Understand
AD254.2	Coordinate accessories and outfits.	Apply
AD254.3	Restyle from a plain accessory.	Create
AD254.4	Design and illustrate accessories	Create
AD254.5	Make different ready to wear accessories.	Create
AD254.6	Compile entire learning in the form of a document.	Analyze

Shikha Kapoor

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Course Outcomes

Course Name: Accessories Design Synthesis

Course Code: AD 264

Year: 2nd Year

Semester: 4th Semester

Faculty Name: Shikha Kapoor

CO Number	Course Outcome statement At the completion of the course, student should be able to--	Taxonomy Level
AD264.1	Classify and define Fashion accessories.	Remember
AD264.2	Explain Various types of fashion Accessories	Understand
AD264.3	Understand development and production of fashion accessories.	Understand
AD264.4	Interpret Fashion and Marketing trends of accessories.	Understand
AD264.5	Design sketch render and create fashion accessories.	Create
AD264.6	Compile entire learning in the form of a document.	Analyze

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Course Outcomes

Course Name: Accessories Design Synthesis

Course Code: AD 274

Year: 2nd Year

Semester: 4th Semester

Faculty Name: Shikha Kapoor

CO Number	Course Outcome statement At the completion of the course, student should be able to--	Taxonomy Level
AD274.1	Classify and define Fashion accessories.	Remember
AD274.2	Explain Various types of fashion Accessories	Understand
AD274.3	Understand development and production of fashion accessories.	Understand
AD274.4	Interpret Fashion and Marketing trends of accessories.	Understand
AD274.5	Design sketch render and create fashion accessories.	Create
AD274.6	Compile entire learning in the form of a document.	Analyze

Shikha Kapoor

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School of Design

Course Outcomes

Course Name: Fashion Studies

Course Code: AD224

Year: 2019-20

Semester: IVsemester/Spring

Faculty Name: Prof. (Dr.) Smriti Agarwal

CO Number	Course Outcome statement At the completion of the course, student will be able to	**Taxonomy Level**
AD224.1	Explore Fashion terminology and understand how ,apply n production	Apply
AD224.2	Demonstrate product and accessories as analysis of industry demand.	Apply
AD224.3	Understand competence in global fashion market & designer	Analysis
AD224.4	Understand the fashion forecast and applications.	Analysis
AD224.5	Examine the current forecast and develop products accordingly	Apply
AD224.6	Analysis the fashion market and modify range and finalize for collection	Apply

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Course Outcomes

Course Name: Introduction to craft

Course Code: AD244

Year: 2019-20

Semester: IV/Spring Semester

Faculty Name: Prof. (Dr.) Smriti Agarwal

CO Number	**Course Outcome statement** At the completion of the course, student will be able to	**Taxonomy Level**
AD244.1	Determine complete knowledge and understanding of the relationship between craft and region.	Understand
AD244.2	Knowhow apply in creative techniques in traditional craft	Apply
AD244.3	Exhibit, adapt, utilize & investigate the process of form exploration, different crafts	Apply
AD244.4	Apply innovative ideas for relevant craft combined with each other	Apply
AD244.5	Apply learning through innovative jewelry with different body parts with analysis scientific view.	Understand and Apply
AD244.6	Demonstrate different area of printings	Apply

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Course Outcomes

Course Name: Fashion Illustration & Presentation (Women's Wear-Indian Wear)

Course Code: FD234

Year: 2019-20

Semester: IV/Spring Semester

Faculty Name: Prof. (Dr.) Smriti Agarwal

CO Number	**Course Outcome statement** At the completion of the course, student will be able to	**Taxonomy Level**
FD234.1	Determine complete knowledge and understanding of the relationship between silhouettes and body form	Apply
FD234.2	Knowhow apply in creative rendering with esthetic values.	Understand
FD234.3	Exhibit, adapt, utilize & investigate the process of form exploration, body types, movement and contour in women's wear	Apply
FD234.4	Apply innovative ideas for relevant Indian Costume design.	Analysis
FD234.4	Demonstrate competence in hand drawing and graphic skills.	Apply
FD234.4	Determine body form and manipulate design according to figure for visual communication.	Apply

Signature of the faculty

School of Design

Course Outcomes

Course Name: Form Realization

Course Code: FD244

Year: 2019-20

Semester: IV/Spring Semester

Faculty Name: Prof. (Dr.) Smriti Agarwal

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FD244.1	Determine complete knowledge and understanding of the relationship between fabric, body type & garment.	Apply
FD244.2	Knowhow apply in creative pattern making & draping with esthetic values.	Understand
FD244.3	Exhibit, adapt, utilize & investigate the process of form exploration, body types, movement and contour in women's wear	Apply
FD244.4	Apply innovative ideas for relevant design.	Analysis
FD244.4	Apply learning through innovative draping and pattern ideas.	Apply
FD244.4	Determine body form and manipulate design according to figure	Apply

Signature of the faculty

School of Design

Course Outcomes

Course Name: Fashion Studies-II (Women's wear Indian)

Course Code: FD254

Year: 2019-20

Semester: IV/Spring Semester

Faculty Name: Prof. (Dr.) Smriti Agarwal

CO Number	Course Outcome statement At the completion of the course, student will be able to	**Taxonomy Level**
FD233.1	Explore experiment and develop range for women's wear	Apply
FD233.2	Demonstrate fashion presentation skills, render fashion figure with details of women's wear	Apply
FD233.3	Demonstrate competence of specification with cost analysis.	Apply
FD233.4	Define complete design process for women's wear	Remember
FD233.5	Apply design learning through construction of different techniques,	Apply
FD233.6	Exhibit all steps of design process with production	Apply

Signature of the faculty

School of Design

Course Outcomes

Course Name:

Course Code: FD253

Year: 2020-21

Semester: III

Faculty Name: Prof. (Dr.) Smriti Agarwal

CO Number	**Course Outcome statement** At the completion of the course, student will be able to	**Taxonomy Level**
FD253.1	Demonstrate complete knowledge and understanding of the fashion design process of women's wear (casual) for Spring Summer (S/S)2017	Apply
FD253.2	Apply design learning through construction of a range of chosen ensemble	Understand
FD253.3	Exhibit, adapt, utilize & investigate the fashion design process through research, forecast, trend study, art plates, patterns, drapes etc.	Apply
FD253.4	Sketch different styles of apparel with fabric effect	Apply

Signature of the faculty

School of Liberal Arts/ School of Science

Course Outcomes

Course Name: **Fashion Economics**

Course Code: MM132

Year: 2019-20

Semester: 2nd Semester/Spring

Faculty Name: Prof. (Dr.) Smriti Agarwal

CO Number	**Course Outcome statement** At the completion of the course, student should be able to--	**Taxonomy Level**
MM132.1	Describe economics of world fashion industry.	Understand
MM132.2	Determine the key factors influencing fashion business.	Apply
MM132.3	Evaluate different strategies fashion economics.	Evaluate
MM1.4	Analyze the mechanisms of fashion market and its economic strategies	Analyze
MM110.5	Explain fashion economics cycles and different theories.	Understand
MM110.6	Describe basic statistical methods for data analysis.	Understand

Signature of the faculty

School of Design

Course Outcomes

Course Name: **Fashion Studies-II (Women's wear-Indian)**

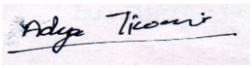
Course Code: FD 254

Year: 2019-20

Semester: Spring

Faculty Name: Dr. Adya Tiwari

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FM254.1	Identify the segment category of Indian Wear.	Remember
FM254.2	Outline market trends, forecasts and brands for specific Indian Wear ensembles	Analyse
FM254.3	Compose derivations, scrap books and doodles.	Create
FM254.4	Choose Fabrics and surface explorations	Evaluate
FM254.5	Investigate the fashion design process through research	Evaluate
FM254.6	Design an Indian wear collection through design process	Create



Adya Tiwari

Signature of the faculty

School of Design

Course Outcomes

Course Name: **Traditional Textiles & Crafts**

Course Code: FD274

Year: 2nd Year

Semester: 4th Semester

Faculty Name: Dr. Sukhvir Singh

CO Number	Course Outcome statement At the completion of the course, student should be able to--	Taxonomy Level
FD274.1	Describe traditionally used embroideries, weaving, dyeing, painting and printing.	Understand
FD274.2	Demonstrate various practical applications of traditional textile techniques.	Apply
FD274.3	Develop visual and samples of different Indian traditional textiles.	Create
FD274.4	Describe various factors influencing different traditional textiles.	Understand
FD274.5	Explain characteristics Indian traditional textiles.	Understand
FD274.6	Explain different traditional textile techniques of Indian states.	Understand

Sukhvir Singh

Signature of the faculty

School of Design

Course Outcomes

Course Name: **Textile Study II**

Course Code: FD204

Year: 2 Year

Semester: 4th Semester

Faculty Name: Dr. Sukhvir Singh

CO Number	Course Outcome statement At the completion of the course, student should be able to--	Taxonomy Level
FD204.1	Describe different types of dyeing and printing processes and methods.	Remember
FD204.2	Explain the concept of pretreatment and textile finishes.	Understand
FD204.3	Analyze various dyeing and printing defects.	Analyze
FD204.4	Explain the selection of different dyes and print paste ingredients based on end use and as per the type of material.	Understand
FD204.5	List functions of merchandise manager.	Remember
FD204.6	Generating dyed fabrics and print materials though various techniques.	Create

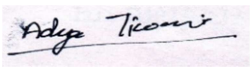
Sukhvir Singh

Signature of the faculty

SCHOOL OF FASHION AND DESIGN

Course Name	**Advance Pattern Making & Draping**
Course Code	FD214
Year	2019-20
Semester	Spring
Faculty Name	Dr Adya Tiwari

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FD213.1	Described different types of needle types, pattern drafting and draping concepts, Dummies and mannequins, taking body measurements	Understand
FD213.2	Demonstrate advance drafting pattern set for women in standard sizes, trouser drafting for men's wear	Apply
FD213.3	Developed different methods of Drafting patterns for variations of bodice using dart manipulation methods - slash & pivot techniques	Create
FD213.4	Types of Lower pattern and their pattern variations	Understand
FD213.5	Developed varied skirt patterns for different skirt styles	Create
FD213.6	Design and develop torso/dress block pattern	Create



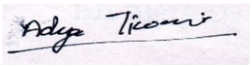
Adya Tiwari

Signature of Faculty:

SCHOOL OF FASHION AND DESIGN

Course Name	**Advanced Garment Construction**
Course Code	FD224
Year	2019-20
Semester	Spring
Faculty Name	Dr. Adya Tiwari

CO Number	**Course Outcome statement** At the completion of the course, student will be able to	**Taxonomy Level**
FD224.1	Operate SNLS machine and Over lock machine with 5 thread	Apply
FD224.2	Demonstrate garment construction methods and techniques	Apply
FD224.3	Create Bodice Block Variations, Skirt / Cascades Variations, Sleeve Variations, Trouser Variations, Cowl necklines	Create
FD224.4	Construct corset and strapless foundation	Create
FD224.5	Develop skirt variations	Create
FD224.6	Design and stitch Indian Wear	Create

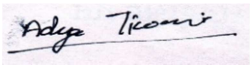


Signature of Faculty:

SCHOOL OF FASHION AND DESIGN

Course Name	**Photoshop**
Course Code	FD264
Year	2019-20
Semester	Spring
Faculty Name	Dr. Adya Tiwari

CO Number	**Course Outcome statement** At the completion of the course, student will be able to	**Taxonomy Level**
FD264.1	Describe uses of raster software in CAD Fashion Designing, understand the various tools and workspace of Adobe Photoshop Software	Understand
FD264.2	Demonstrate fashion photo montage and collage techniques in photoshop	Apply
FD264.3	Create Fashion Presentation Boards and extract color palette for fashion mood board	Create
FD264.4	Describe methods of 3D Rendering and animation effects in photoshop, changing facial features using filter commands, familiarize with various filter commands in photoshop	Understand
FD264.5	Develop fabric textures and surface effects for fabric repeat patterns and draping textures on croqui	Create
FD264.6	Develop abstract collages for visual communication of design ideas for a collection plan	Create



Signature of Faculty:

SCHOOL OF FASHION AND DESIGN

Course Outcomes

Course Name: Fashion Movement

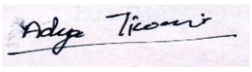
Course Code: FM 244

Year: 2019-20

Semester: Spring

Faculty Name: Dr Adya Tiwari

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FM204.1	Understand the need and importance of creativity and technicality of Fashion.	Understand
FM204.2	Examine concepts and skills learned in the classroom with respect of Fashion movement visit to websites.	Apply
FM204.3	Analyze from various case studies about the window displays and floor layouts.	Analyze
FM204.4	Define the fashion elements of fashion and fashion life cycle	Understand
FM204.5	Develop window display and create floor layouts by designing a 3D model.	Create
FM204.6	Identify their abilities as a potential visual merchandiser and expand their horizon as a merchandiser.	Remember



Adya Tiwari
Signature of the faculty

School of Design

Course Outcomes

Course Name: Buyers and Organizations

Course Code: FM 214

Year: 2nd

Semester: 4th

Faculty Name: Mr. Sushil K. Bishnoi

CO Number	Course Outcome statement At the completion of the course, student should be able to--	Taxonomy Level
FM 214.1	Explain different motivations of a consumer and organizational buyers	Understand
FM 214.2	Explain strategies for approaching consumer and organizational buyers	Remember
FM 214.3	Recognize the importance of relationship management	Analyze
FM 214.4	Demonstrate complete knowledge and understanding of the importance of the types of buyers and organizational buying behavior.	Evaluate
FM 214.5	Apply learning through data collection, study, observation, analysis of the life cycle of buying patterns.	Apply
FM 214.6	Exhibit, adapt, utilize &investigate the buying behavior and pattern of an organization to facilitate effective operational strategies.	Apply

Signature of the faculty

School of Design

Course Outcomes

Course Name: Buyers and Organizations

Course Code: FM 224

Year: 2nd

Semester: 4th

Faculty Name: Mr. Sushil K. Bishnoi

CO Number	Course Outcome statement At the completion of the course, student should be able to--	Taxonomy Level
FM 224.1	Explain different motivations of a consumer and organizational buyers	Understand
FM 224.2	Explain strategies for approaching consumer and organizational buyers	Remember
FM 224.3	Recognize the importance of relationship management	Analyze
FM 224.4	Demonstrate complete knowledge and understanding of the importance of the types of buyers and organizational buying behavior.	Evaluate
FM 224.5	Apply learning through data collection, study, observation, analysis of the life cycle of buying patterns.	Apply
FM 224.6	Exhibit, adapt, utilize &investigate the buying behavior and pattern of an organization to facilitate effective operational strategies.	Apply

Signature of the faculty

School of Design

Course Outcomes

Course Name: Basics of Merchandising

Course Code: FM 234

Year: 2nd

Semester: 4th

Faculty Name: Mr. Sushil K. Bishnoi

CO Number	Course Outcome statement At the completion of the course, student should be able to--	Taxonomy Level
FM 234.1	Explainthe key roles and responsibilities of a Merchandiser in the Buyer's Merchandise Planning	Understand
FM 234.2	Understanding Various Buying Styles	Remember
FM 234.3	Understanding Buyer Behaviour and its Process	Analyze
FM 234.4	Understanding Buyer's end operations and Merchandise goals, planning and Value delivery process from the perspective of a Merchandiser.	Evaluate
FM 234.5	Exhibit, adapt, utilize &investigate the responsibilities of a Merchandiser in ensuring delivery of value to the buyer and buying organizations.	Apply
FM 234.6	Ability to Explainbuyer's requirements and decision making process along with evaluation yardsticks.	Apply

Signature of the faculty

SCHOOL OF FASHION AND DESIGN

Course Outcomes

Course Name: Fashion Movement

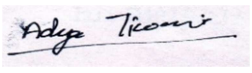
Course Code: FM 244

Year: 2019-20

Semester: Spring

Faculty Name: Dr Adya Tiwari

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FM336.1	Understand the need and importance of creativity and technicality of Fashion.	Understand
FM336.2	Examine concepts and skills learned in the classroom with respect of Fashion movement visit to websites.	Apply
FM336.3	Analyze from various case studies about the window displays and floor layouts.	Analyze
FM336.4	Define the fashion elements of fashion and fashion life cycle	Understand
FM336.5	Develop window display and create floor layouts by designing a 3D model.	Create
FM336.6	Identify their abilities as a potential visual merchandiser and expand their horizon as a merchandiser.	Remember



Adya Tiwari
Signature of the faculty

School of Design

Course Outcomes

Course Name: Buyers and Organizations

Course Code: FM 254

Year: 2nd

Semester: 4th

Faculty Name: Mr. Sushil K. Bishnoi

CO Number	Course Outcome statement At the completion of the course, student should be able to--	Taxonomy Level
FM 254.1	Explain different motivations of a consumer and organizational buyers	Understand
FM 254.2	Explain strategies for approaching consumer and organizational buyers	Remember
FM 254.3	Recognize the importance of relationship management	Analyze
FM 254.4	Demonstrate complete knowledge and understanding of the importance of the types of buyers and organizational buying behavior.	Evaluate
FM 254.5	Apply learning through data collection, study, observation, analysis of the life cycle of buying patterns.	Apply
FM 254.6	Exhibit, adapt, utilize & investigate the buying behavior and pattern of an organization to facilitate effective operational strategies.	Apply

Signature of the faculty

School of Design

Course Outcomes

Course Name: **Heritage Study Project**

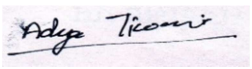
Course Code: AD326

Year: 2019-20

Semester: Spring

Faculty Name: Dr. Adya Tiwari

CO Number	Course Outcome statement At the completion of the course, student should be able to--	Taxonomy Level
AD326.1	Understating of heritage of the nation and local region	Understand
AD326.2	Research about historical perspective of the heritage site.	Analyze and Apply
AD326.3	Understanding of various traditional elements and crafts used in the formation in design.	Apply and Remember
AD326.4	Understanding of various contemporary sites and uses of various traditional elements in design.	Apply and Remember
AD326.5	Compilation of the entire learning in a form of document	Apply and Create
AD326.6	Upload the compile document on Academia.edu for further review	Apply and create



Adya Tiwari
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School of Design

Course Outcomes

Course Name: **Heritage Study Project**

Course Code: AD336

Year: 2020-21

Semester: Spring

Faculty Name: Mr. Deepak Khandelwal

CO Number	Course Outcome statement At the completion of the course, student should be able to--	Taxonomy Level
AD336.1	Understating of heritage of the nation and local region	Understand
AD336.2	Research about historical perspective of the heritage site.	Analyze and Apply
AD336.3	Understanding of various traditional elements and crafts used in the formation in design.	Apply and Remember
AD336.4	Understanding of various contemporary sites and uses of various traditional elements in design.	Apply and Remember
AD336.5	Compilation of the entire learning in a form of document	Apply and Create
AD336.6	Upload the compile document on Academia.edu for further review	Apply and Create

Signature of the faculty

School of Design

Course Outcomes

Course Name: **Design Studio VI (Traditional Craft & Contemporary Products)**

Course Code: AD306

Year: 2019-20

Semester: VIth Semester

Faculty Name: Mr. Deepak Khandelwal

CO Number	Course Outcome statement At the completion of the course, student should be able to--	Taxonomy Level
AD306.1	Understanding and apply of various crafts and processes.	Understand and apply
AD306.2	Learning of the socio-cultural context of the craft.	Understand
AD306.3	Research and understanding of various contemporary craft and products.	Remember and Apply
AD306.4	Product development by using traditional craft processes.	Create
AD306.5	Compilation of the entire learning in a form of document.	Apply and Create
AD306.6	Upload the compile document on Academia.edu for further review.	Apply and Create

Signature of the faculty

School of Design

Course Outcomes

Course Name: **Fashion Business and Entrepreneurship**

Course Code: AD346

Year: 3rd Year

Semester: 6th Semester

Faculty Name: Dr. Sukhvir Singh

CO Number	Course Outcome statement At the completion of the course, student should be able to--	Taxonomy Level
AD346.1	Describe the concept of market management.	Understand
AD346.2	Predict the market potential of a product.	Analyse
AD346.3	Develop strategy for recruitment and training of HRD.	Create
AD346.4	Explain market research and market segmentation variables.	Understand
AD346.5	Explain characteristics of an Entrepreneur.	Understand
AD346.6	Describe brand management and brand value.	Understand

Sukhvir Singh

Signature of the faculty

School of Design

Course Outcomes

Course Name: **Product Photography**

Course Code: AD356

Year: 2019-20

Semester: VI Semester

Faculty Name: Mr. Deepak Khandelwal

CO Number	**Course Outcome statement** At the completion of the course, student should be able to--	**Taxonomy Level**
AD356.1	Students will be able to familiarize with the vitality of the subject	Understand
AD356.2	Students will develop their sensibility to a certain minimum extent which allows them to differentiate good and bad photographs.	Create
AD356.3	Students will feel conversant with the terminology used while discussing exposures and lighting conditions. Proper training and tutorials shall enable them to effectively utilize a studio environment to their advantage.	Apply & Create
AD356.4	Students will be able to edit or fine tune their photographs using Adobe's software.	Apply & Create

Signature of the faculty

SCHOOL OF DESIGN

Course Outcomes

Course Name: Practical Training
Course Code: BI 312
Year: 2019-20
Semester: VI
Name of Faculty: Ms. Sonakshi Pundir

Course Code	Course Name	CO No.	CO Statement	Taxonomy
BI 312	Practical Training	BI 312.1	Able to get acquainted with the demands of the profession.	Understand
		BI 312.2	Able to carry out independent critical study of a building of interior designing importance,	Apply
		BI 312.3	Abel to understand innovative building material and study of observed and drafted details	Apply
		BI 312.4	Able to explain responsibilities & liabilities of the Profession and understand the process of Contract and Project management	Understand
		BI 312.5	Able to analyze real life time problems which help in honing their skills.	Apply
		BI 312.6	Abel to make presentation regarding client briefing and material selection.	Create

Signature of the faculty

School of Science Design

Course Outcomes

Course Name: **Sustainable Design**

Course Code: AD316

Year: 19-20

Semester: VI Semester /spring

Faculty Name: Prof. (Dr.) Smriti Agarwal

CO Number	**Course Outcome statement** At the completion of the course, student should be able to--	**Taxonomy Level**
AD316.1	Describe the various aspects of sustainable design.	Understand
AD316.2	Predict the market potential of a product based on sustainable structure	Analyze
AD316.3	Develop product prototype as per identified craft with low wastage	Create
AD316.4	Explain the concept of sustainable design.	Understand
AD316.5	Predict the future trends of market potential of craft products.	Apply
AD316.6	Compilation of the entire learning in a form of document	Understand

Signature of the faculty

School of Fashion and Design

Course Outcomes

Course Name: **Internship**

Course Code: FD306

Year: 2020-21

Semester: VIII /Spring Semester

Faculty Name: Prof. (Dr.) Smriti Agarwal

CO Number	Course Outcome statement At the completion of the course, student should be able to--	Taxonomy Level
FD306.1	Describe Explore career alternatives and assess abilities in their field of study.	Understand &Apply
FD306.2	Determine out and professionally uses appropriate disciplinary resources and methods	Analyse & Apply
FD306.3	Develop communication, interpersonal and other critical skills	Apply
FD306.4	Identifies and describes professional expectations within the organization and clients etc.	Understand
FD306.5	Predict the future trends of market potential and production	Apply
FD306.6	Differentiate estimation and costing of the products.	Understand

Signature of the faculty

School of Design

Course Outcomes

Course Name: **Basics of Portfolio Development**

Course Code: FD326

Year: 3 Year

Semester: 6th Semester

Faculty Name: Dr. Sukhvir Singh

CO Number	Course Outcome statement At the completion of the course, student should be able to--	Taxonomy Level
FD326.1	Describe how to use design elements effectively and efficiently in given space.	Understand
FD326.2	Using the design thinking knowledge in visualizing expected portfolio outcome.	Apply
FD326.3	Generate ideas of visual and material exploration.	Create
FD326.4	Design different patterns and compositions with appropriate colors, textures and prints.	Create
FD326.5	Interpret results of design research in presentable form.	Understand
FD326.6	Describe the use of text, styles, colors, textures in given space.	Understand

Sukhvir Singh

Signature of the faculty

School of Design

Course Outcomes

Course Name: Global Issues and Ethical Trading

Course Code: FM 306

Year: 3rd

Semester: 6th

Faculty Name: Mr. Sushil K. Bishnoi

CO Number	Course Outcome statement At the completion of the course, student should be able to--	Taxonomy Level
FM 306.1	establish a deep understanding of the current global issues in the apparel industry and relevance of ethical trading	Understand
FM 306.2	appreciate the history and evolution of ethical trading	Remember
FM 306.3	Analyze and Explainthe current global scenario with judgmental perspective of ethical trade.	Analyze
FM 306.4	Explain and develop skills to tackle environmental and social issues present in garment industry at national and international level.	Evaluate
FM 306.5	Gain a basic understanding of practices and conduct of import and export trade and become aware of the challenges being faced by apparel companies.	Apply
FM 306.6	Acquire knowledge about the impact of research, and changes in technology through sustainability issues and environment hazards being addressed both at national and international level.	Apply

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School of Design

Course Outcomes

Course Name: Fashion Trend Forcasting, Promotion, and Fashion Brand Management

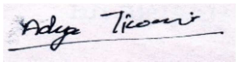
Course Code: FM 326

Year: 3rd

Semester: 6th

Faculty Name: Dr Adya Tiwari

CO Number	Course Outcome statement At the completion of the course, student should be able to--	Taxonomy Level
FM 326.1	Study fashion forecasting in order to ideate future tastes and preference	Understand
FM 326.2	Examine branding and the ways that brands acquire and sustain value in the marketplace	Remember
FM 326.3	Able to analyse the international market technically to predict trends accurately	Analyze
FM 326.4	Identify, understand, and apply the methods and tools used by Brands – by solving Case Studies.	Evaluate
FM 326.5	Strategically create Forecasting model for a market/brand – and to Explain the various tools used to apply the same	Apply
FM 326.6	Explain the process of brand promotion .	Create



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School of Design

Course Outcomes

Course Name: Digital Media Marketing

Course Code: FM 346

Year: 3rd

Semester: 6th

Faculty Name: Mr. Sushil K. Bishnoi

CO Number	Course Outcome statement At the completion of the course, student should be able to--	Taxonomy Level
FM 346.1	relate easily to the need and importance of creativity and well as technicality in digital media marketing	Understand
FM 346.2	apply concepts and skills learned in the classroom with respect of digital media.	Remember
FM 346.3	To learn the techniques and art of creating attractive digital media	Analyze
FM 346.4	To learn from various websites about the best website development interfaces and their designs.	Evaluate
FM 346.5	develop commercial and service aspects in field of digital media marketing	Apply
FM 346.6	Enhance their competency in knowing the methods of marketing, story board development, layouts for various fast fashion and luxury fashion brands.	Create

Signature of the faculty

School of Design

Course Outcomes

Course Name: Dissertation

Course Code: FM 356

Year: 4th

Semester: 8th

Faculty Name: Mr. Sushil K. Bishnoi

CO Number	Course Outcome statement At the completion of the course, student should be able to--	Taxonomy Level
FM 356.1	Understand a full range of research skills to arrive at holistic solutions.	Understand
FM 356.2	Understand and utilize specialized skills across a focused area of study.	Remember
FM 356.3	Exhibit comprehensive knowledge of the subject and presenting one's work to a professional standard.	Analyze
FM 356.4	Demonstrate individually design and conduct research into fashion merchandising areas.	Evaluate
FM 356.5	Demonstrate capacity for critical evaluation and judgment of new knowledge, concepts and evidence form a range of sources to propose a commercially feasible solution for the situation at hand.	Apply
FM 356.6	Apply quantitative skills to analyze, interpret and extrapolate market, production and financial data.	Create

Signature of the faculty

School of Design

Course Outcomes

Course Name: Fashion Product Management

Course Code: FM366

Year: 2019-20

Semester: Spring

Faculty Name: Dr. Adya Tiwari

CO Number	**Course Outcome statement** At the completion of the course, student will be able to-	**Taxonomy Level**
FM366.1	Understantd easily to the need and importance of fashion product management	Understand
FM366.2	Explain the process of public relations in product management.	Understand
FM366.3	Carry out negotiation and understand the building competition.	Understand
FM366.4	Evaluate the preproduction activities for given situation	Evaluate
FM366.5	Solve problem relating to contemporary product categories related challenges.	Apply
FM366.6	Confidently select appropriate quantitative and qualitative approaches to identify, and formulate the problem relating to contemporary product categories related challenges.	Create

Adya Tiwari

Faculty Signature

School of Design

Course Outcomes

Course Name: **Market research**

Course Code: FM316

Year: 3 Year

Semester: 6th Semester

Faculty Name: Dr. Sukhvir Singh

CO Number	Course Outcome statement At the completion of the course, student should be able to--	Taxonomy Level
FM316.1	Describe systematically each step involved in market research.	Understand
FM316.2	Predict when to conduct market research and demographic trends.	Apply
FM316.3	Design different techniques of compiling market research data.	Create
FM316.4	Design different patterns and compositions with appropriate colors, textures and prints.	Create
FM316.5	Interpret results of design research in presentable form.	Understand
FM316.6	Describe the research gap through literature review.	Understand

Sukhvir Singh

Signature of the faculty

SCHOOL OF DESIGN

Course Outcomes

Course Name: VISUAL MERCHANDISING

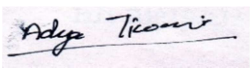
Course Code: FM 336

Year: 2020-21

Semester: Spring

Faculty Name: Dr. Adya Tiwari

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FM336.1	Understand the need and importance of creativity and technicality of visual merchandising in retail.	Understand
FM336.2	Examine concepts and skills learned in the classroom with respect of visual merchandising through visit to Malls.	Apply
FM336.3	Analyze from various case studies about the window displays and floor layouts.	Analyze
FM336.4	Compare and conclude the best window displays and floor layouts between brands through case studies.	Evaluate
FM336.5	Develop window display and create floor layouts by designing a 3D model.	Create
FM336.6	Identify their abilities as a potential visual merchandiser and expand their horizon as a merchandiser.	Remember



Adya Tiwari
Signature of the faculty

School of Fashion and Design

Course Outcomes

Course Name: **Internship**

Course Code: FD408

Year: 2019-20

Semester: 8th Semester/Spring Semester

Faculty Name: Prof. (Dr.) Smriti Agarwal

CO Number	Course Outcome statement At the completion of the course, student should be able to--	Taxonomy Level
FD408.1	Describe Explore career alternatives and assess abilities in their field of study.	Understand &Apply
FD408.2	Determine out and professionally uses appropriate disciplinary resources and methods	Analyse & Apply
FD408.3	Develop communication, interpersonal and other critical skills	Apply
FD408.4	Identifies and describes professional expectations within the organization and clients etc.	Understand
FD408.5	Predict the future trends of market potential and production	Apply
FD408.6	Differentiate estimation and costing of the products.	Understand

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School of Design

Course Outcomes

Course Name: Dissertation

Course Code: FM 402

Year: 4th

Semester: 8th

Faculty Name: Mr. Sushil K. Bishnoi

CO Number	Course Outcome statement At the completion of the course, student should be able to--	Taxonomy Level
FM 402.1	Understand a full range of research skills to arrive at holistic solutions.	Understand
FM 402.2	Understand and utilize specialized skills across a focused area of study.	Remember
FM 402.3	Exhibit comprehensive knowledge of the subject and presenting one's work to a professional standard.	Analyze
FM 402.4	Demonstrate individually design and conduct research into fashion merchandising areas.	Evaluate
FM 402.5	Demonstrate capacity for critical evaluation and judgment of new knowledge, concepts and evidence form a range of sources to propose a commercially feasible solution for the situation at hand.	Apply
FM 402.6	Apply quantitative skills to analyze, interpret and extrapolate market, production and financial data.	Create

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School of Design

Course Outcomes

Course Name: Portfolio Development

Course Code: FM 404

Year: 2nd

Semester: 4th

Faculty Name: Mr. Sushil K. Bishnoi

CO Number	Course Outcome statement At the completion of the course, student should be able to--	Taxonomy Level
FM 404.1	Understand the Portfolio development process and different categories of portfolios and their usage.	Understand
FM 404.2	Understand web resources for optimal outreach and accessibility.	Remember
FM 404.3	Exhibit comprehensive knowledge of the subject and presenting one's work to a professional standard.	Analyze
FM 404.4	Demonstrate a strong sense of visual communication.	Evaluate
FM 404.5	Structure the design and research process and record/ document in a comprehensible manner.	Apply
FM 404.6	Demonstrates appropriate skills and knowledge for the broader context of subject such as textiles, photography and graphics.	Create

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Course Outcome

Course Name: Electronic Devices and Circuits
Course Code: EC 19.201
Credit Hours: 3
Semester, Year: Autumn, II Year
Branch: ECE, BME, EE
Prerequisite: Basic Electronics and Physics of Electron

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
EC 19.201.1	Know about the multistage amplifier using BJT and FET in various configuration.	Remember
EC 19.201.2	Understand the basic concepts of BJT, FET and MOSFETs.	Understand
EC 19.201.3	Apply the basic electronics engineering knowledge to solve the circuit problems.	Apply
EC 19.201.4	Analyze various amplifiers on the basis of their performance.	Analyze
EC 19.201.5	Evaluate the performance amplifiers and oscillators.	Evaluate
EC 19.201.6	Design mini projects using BJT, FET and MOSFET.	Create

Faculty Name: Dr. Ranjana Thalore

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Course Outcome

Course Name: Project
Course Code: EE 19.631
Credit Hours: 04
Semester, Year: Autumn, 2021
Branch: Electrical Engineering
Prerequisite: Lab Skill

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
EE19.631 .1	Basic Concepts of Power system	Understand
EE19.631.2	Elements of High Voltage Transformer, Generator and motor action.	Analyze
EE19.631 .3	Constructional parts of Thirstier and their function, Principle of operation, Armature winding- Lap and wave, Simplex and duplex, Method of excitation.	Understand
EE19.631.4	Design, analyze and synthesize Process of building up of voltage, Causes of failure of voltage build-up and remedies, Parallel operation of Drives generators, Applications.	Create
EE19.631 .5	Design, analyze and synthesize single phase c Power Electronics cycle converters Connections and Operation.	Create

(Dr. Sudhir Y Kumar)
Faculty Name

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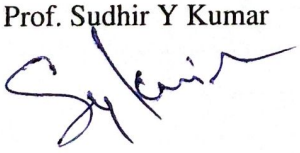
Course Outcome

Course Name: Power system and Smart Grid (Elective-I)
Course Code: EE 19.509
Credit Hours: 3
Semester, Year: Autumn, IV
Branch: ELECTRICAL ENGINEERING
Prerequisite: Transmission and Distribution, Power System Analysis

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
EE 19.509.1	Understand the Supply Side and Demand Side of Electricity Basics of electricity, Fossil fuels and hydro power plants, Renewable and alternative energy.	Understand
EE 19.509.2	Analyze Transmission and Distribution Network: Physical law of electricity, AC vs. DC power flow.	Analyze
EE 19.509.3	Apply State Space Analysis of Discrete Time Systems.	Apply
EE 19.509.4	Create Basic Elements of Smart Grid: The origin of power grid, dependency on power grid, desirable features of power grid.	Create
EE 19.509.5	Evaluate Key Characteristics of Smart Grid: Demand-side participation.	Evaluate
EE 19.509.6	Understand Issues Related to Smart Grid: Communication and sensing in a smart grid.	Understand

Faculty Name: Prof. Sudhir Y Kumar



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End Term Examination – Autumn Semester (2019-20)

Year	:	M.Tech(RE) II yr		Credits	:	4
Course Code	:	EE 19.601		Course Title	:	Seminar
Time Allowed	:	3 Hrs		Max. Marks	:	100

Q. No.		Max. Marks.	Course Outcome Number	Bloom Taxonomy
1.	i.	2	EE 19.601.1	Remember
	ii.	2	EE 19.601 .2	Apply
	iii.	2	EE 19.601 .2	Apply
	iv.	2	EE 19.601 .2	Apply
	v.	2	EE 19.601 .2	Apply
	vi.	2	EE 19.601 .3	Understand
	vii.	2	EE 19.601 .3	Understand
	viii.	2	EE 19.601 .1	Remember
	ix.	2	EE 19.601 .3	Understand
	x.	2	EE 19.601 .1	Remember
2.	a.	6	EE 19.601 .2	Understand
	b.	6	EE 19.601 .2	Apply
	c.	4	EE 19.601 .1	Remember
3.	a.	8	EE 19.601 .6	Create
	b.	8	EE 19.601 .6	Create
4.	a.	8	EE 19.601 .4	Analyze
	b.	8	EE 19.601 .4	Analyze
5.	a.	6	EE 19.601 .2	Understand
	b.	10	EE 19.601 .3	Apply
6.	a.	8	EE 19.601 .4	Analyze
	b.	8	EE 19.601 .5	Evaluate

7.	a.	8	EE 19.601 .4	Analyze
	b.	8	EE 19.601 .5	Evaluate
8	a.	8	EE 19.601 .5	Evaluate
	b.	8	EE 19.601 .4	Analyze

CO Number	Total CO Marks	%CO
EE 19.601 .1	10	8
EE 19.601 .2	26	20
EE 19.601 .3	16	12
EE 19.601 .4	40	30
EE 19.601 .5	24	18
EE 19.601 .6	16	12
Total	**132**	**100**

Taxonomy	Total Taxonomy Marks	% Taxonomy
Remember	10	8
Understand	26	20
Apply	16	12
Analyze	40	30
Evaluate	24	18
Create	16	12
Total	**132**	**100**

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End Term Examination – Autumn Semester (2019-20)

Year	:	EE III yr		Credits	:	3
Course Code	:	EE-14.405		Course Title	:	Electrical Machine Design
Time Allowed	:	3 Hrs		Max. Marks	:	100

Q. No.		Max. Marks.	Course Outcome Number	Bloom Taxonomy
1.	i.	2	EE 14.405.1	Remember
	ii.	2	EE 14.405.2	Apply
	iii.	2	EE 14.405.2	Apply
	iv.	2	EE 14.405.2	Apply
	v.	2	EE 14.405.2	Apply
	vi.	2	EE 14.405.3	Understand
	vii.	2	EE 14.405.3	Understand
	viii.	2	EE 14.405.1	Remember
	ix.	2	EE 14.405.3	Understand
	x.	2	EE 14.405.1	Remember
2.	a.	6	EE 14.405.2	Understand
	b.	6	EE 14.405.2	Apply
	c.	4	EE 14.405.1	Remember
3.	a.	8	EE 14.405.6	Create
	b.	8	EE 14.405.6	Create
4.	a.	8	EE 14.405.4	Analyze
	b.	8	EE 14.405.4	Analyze
5.	a.	6	EE 14.405.2	Understand
	b.	10	EE 14.405.3	Apply
6.	a.	8	EE 14.405.4	Analyze
	b.	8	EE 14.405.5	Evaluate
7.	a.	8	EE 14.405.4	Analyze

	b.	8	EE 14.405.5	Evaluate
8	a.	8	EE 14.405.5	Evaluate
	b.	8	EE 14.405.4	Analyze

CO Number	Total CO Marks	%CO
EE 14.405.1	10	8
EE 14.405.2	26	20
EE 14.405.3	16	12
EE 14.405.4	40	30
EE 14.405.5	24	18
EE 14.405.6	16	12
Total	**132**	**100**

Taxonomy	Total Taxonomy Marks	% Taxonomy
Remember	10	8
Understand	26	20
Apply	16	12
Analyze	40	30
Evaluate	24	18
Create	16	12
Total	**132**	**100**

Dr. D L Punia

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Course Outcome (CO)

Course Name: Basic RE Simulation Laboratory-I
Course Code: EE 19.531
Credit Hours: 1
Semester, Year: (autumn), I
Branch: B. Tech. (EE)
Prerequisite: Elements of Electrical Engineering

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy	Q. No.
	At the end of the course, Student will be able to:	Layer	
EE 19.531.1	To study the Building a One-Line Diagram of conventional power system and study of various power system components..	Remember	1, 2
EE 19.531.2	Understand Building a simulation model of power system with renewable like solar and wind.	Understand	2, 3
EE 19.531.3	Apply Calculation of Transmission Line Parameters.	Apply	3, 4, 8
EE 19.531.4	Analyze Load flow analysis.	Analyze	4, 5, 9
EE 19.531.5	Evaluate the Simulation of various faults and short circuit analysis for a given power system techniques.	Evaluate	5, 6, 10
EE 19.531.6	Create new projects based Simulation and study of various power quality events like voltage sag, harmonics.	Create	7

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CO Number	Total CO Marks	%CO
EE 19.531.1	10	14
EE 19.531.2	10	14
EE 19.531.3	15	21
EE 19.531.4	15	21
EE 19.531.5	15	22
EE 19.531.6	5	8
Total	**70**	**100**

Taxonomy	Total Taxonomy Marks	% Taxonomy
Remember	10	14
Understand	10	14
Apply	15	21
Analyze	15	21
Evaluate	15	22
Create	5	8
Total	**70**	**100**

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Course Outcome (CO)

Course Name: Seminar
Course Code: EE 19.601
Credit Hours: 2
Semester, Year: (autumn), IV
Branch: B. Tech. (EE)
Prerequisite:

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy	Q. No.
	At the end of the course, Student will be able to:	Layer	
EE 19.601.1	Remember concepts of communication systems, analog and digital signals as well as important parameters of communication.	Remember	1, 2
EE 19.601.2	Understand linear modulation and demodulation techniques, various angular modulation and demodulation techniques as well as distinct digital communication techniques.	Understand	2, 3
EE 19.601.3	Apply critical mathematical expressions and distinct digital communication techniques to solve engineering problems.	Apply	3, 4, 8
EE 19.601.4	Analyze different modulation and demodulation techniques, various angular modulation and demodulation schemes as well as advanced communication techniques.	Analyze	4, 5, 9
EE 19.601.5	Evaluate different digital communication and advanced communication techniques.	Evaluate	5, 6, 10
EE 19.601.6	Create new projects based on advanced communication techniques and solve novel numerical problems.	Create	7

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CO Number	Total CO Marks	%CO
EE 19.601.1	10	14
EE 19.601.2	10	14
EE 19.601.3	15	21
EE 19.601.4	15	21
EE 19.601.5	15	22
EE 19.601.6	5	8
Total	**70**	**100**

Taxonomy	Total Taxonomy Marks	% Taxonomy
Remember	10	14
Understand	10	14
Apply	15	21
Analyze	15	21
Evaluate	15	22
Create	5	8
Total	**70**	**100**

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Course Outcome

Course Name: Electrical Machines Design
Course Code: EE 14.405
Credit Hours: 04
Semester, Year: Autumn, 2020
Branch: Electrical Engineering
Prerequisite: Electrical Machines & Engineering Mathematics

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
EE 14.405.1	Fundamentals of Electrical Machine Design: Standard specification of frame size, conductors and insulation, Magnetization and loss curves.	Understand
EE 14.405 .2	Elements of Rotating Machines, Generator and motor action, Construction details, output equation, main dimensions.	Analyze
EE 14.405.3	Choice of specific loadings, design of stator, design of squirrel cage and slip ring rotor equivalent circuit parameter from design data.	Understand
EE 14.405.4	Computer Aided Design Need for computer aided design, Analysis method, Synthesis.	Create
EE 14.405.5	Design, analyze and synthesize magnetism in the design of transformer and rotating electrical machines.	Create

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Faculty Name

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Course Outcome

Course Name: Transmission & Distribution
Course Code: EE 14.301
Credit Hours: 4
Semester, Year: 5th, 3rd
Branch: EE
Prerequisite: Network Analysis & Synthesis

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
EE14.301.1	Understand the basic concept of Structure of a power system, Effect of Transmission voltage, Load factor, diversity factor, plant capacity factor, plant utilization factor	Understand
EE14.301.2	Analyze the various encoding techniques, switching techniques Transmission Line Parameter, Configuration.	Analyze
EE14.301.3	Understand the concepts of Mechanical Design of Transmission Lines.	Understand
EE14.301.4	Understand the concept of Underground Cables, Types of Insulation for Cable, Sheath, Armor and Covering.	Understand
EE14.301.5	Analyze various IEEE formats, Sag Templates, Vibration dampers.	Analyze
EE14.301.6	Analyze the working mechanism of Insulator and Corona Circuits.	Analyze
EE14.301.7	Understand the process of Comparison of various Distribution systems.	Understand
EE14.301.8	Understand various protocols of application layer Kelvin"s law, Limitation of Kelvin"s law.	Understand

Faculty Name: Dr. Devi Lal Punia.

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Course Outcome

Course Name: Energy Resources
Course Code: EE19.501
Credit Hours: 4
Semester, Year: Autumn, I
Branch: Renewable Energy
Prerequisite: Power Plant Engineering

Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
EE19.501.1	Understanding of commercial energy and renewable energy sources.	Understand
EE19.501.2	Analyze the Knowledge in working principle of various energy systems.	Analyse
EE19.501.3	Infer and evaluate Capability to do basic design of renewable energy systems.	Create
EE19.501.4	Analyse and Design the concept of Commercial Energy resources available and Bio Energy resources.	Analyse
EE19.501.5	Analyse and Design the concept of Solar Energy and Wind Energy.	Analyse
EE19.501.6	Analyse and Design the concept of other renewable energy resources and non-conventional energy resources.	Analyse

Dr. Th. Paraskumar Singh
10.08.2019

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Course Outcome

Course Name: Dissertation Preliminary
Course Code: EE 19.633
Credit Hours: 08
Semester, Year: Autumn, 2021
Branch: Electrical Engineering
Prerequisite:

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
EE19.633 .1	Basic Concepts of Power system	Understand
EE19.633.2	Elements of High Voltage Transformer, Generator and motor action.	Analyze
EE19.633 .3	Constructional parts of Thirstier and their function, Principle of operation, Armature winding- Lap and wave, Simplex and duplex, Method of excitation.	Understand
EE19.633.4	Design, analyze and synthesize Process of building up of voltage, Causes of failure of voltage build-up and remedies, Parallel operation of Drives generators, Applications.	Create
EE19.633 .5	Design, analyze and synthesize single phase c Power Electronics cycle converters Connections and Operation.	Create

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Faculty Name 10.08.2019

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Course Outcome

Course Name: Basic RE Simulation Laboratory-II
Course Code: EE19.533
Credit Hours: 1
Semester, Year: Autumn, III
Branch: Renewable Energy
Prerequisite: Power System I, Power System II

Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
EE19.533.1	Understand the basics of ETAP simulation software.	Understand
EE19.533.2	Experiment on Power Transmission lines modeling, testing and analysis.	Apply
EE19.533.3	Analysis of short circuit and transient stability for standard systems.	Apply
EE19.533.4	Perform stability analysis using various techniques.	Apply

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10.08.2019.

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Course Outcome (CO)

Course Name: Electrical Machines-I Laboratory
Course Code: EE 14.223
Credit Hours: 1
Semester, Year: (autumn), II
Branch: B. Tech. (EE)
Prerequisite: Fundamental of Electrical Engg

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy	Q. No.
	At the end of the course, Student will be able to:	Layer	
EE 19.223.1	Remember concepts of communication systems, analog and digital signals as well as important parameters of communication.	Remember	1, 2
EE 19.223.2	Understand linear modulation and demodulation techniques, various angular modulation and demodulation techniques as well as distinct digital communication techniques.	Understand	2, 3
EE 19.223.3	Apply critical mathematical expressions and distinct digital communication techniques to solve engineering problems.	Apply	3, 4, 8
EE 19.223.4	Analyze different modulation and demodulation techniques, various angular modulation and demodulation schemes as well as advanced communication techniques.	Analyze	4, 5, 9
EE 19.223.5	Evaluate different digital communication and advanced communication techniques.	Evaluate	5, 6, 10
EE 19.223.6	Create new projects based on advanced communication techniques and solve novel numerical problems.	Create	7

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CO Number	Total CO Marks	%CO
EE 19.223.1	10	14
EE 19.223.2	10	14
EE 19.223.3	15	21
EE 19.223.4	15	21
EE 19.223.5	15	22
EE 19.223.6	5	8
Total	**70**	**100**

Taxonomy	Total Taxonomy Marks	% Taxonomy
Remember	10	14
Understand	10	14
Apply	15	21
Analyze	15	21
Evaluate	15	22
Create	5	8
Total	**70**	**100**

Dr. Dr. Th. Paraskumar Singh
10.08.2019.

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Course Outcome

Course Name: Electrical Machines I
Course Code: EE14.203
Credit Hours: 4
Semester, Year: Autumn, II
Branch: Electrical Engineering
Prerequisite: Elements of Electrical Engineering (EE 19.101)

Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
EE14.203.1	Apply the knowledge of basic magnetic circuital concepts of electrical machines.	Apply
EE14.203.2	Apply the knowledge of basic constructional, torque, emf, losses, efficiency, windings, commutation process etc., concepts of rotating electrical machines.	Analyse
EE14.203.3	Infer and evaluate different operational findings of dc generator.	Create
EE14.203.4	Infer and evaluate different operational findings of dc motor.	Create
EE14.203.5	Apply the knowledge of basic constructional, torque, emf, losses, efficiency, windings, etc., concepts of transformer.	Evaluate
EE14.203.6	Infer and evaluate different operational findings of transformer.	Create

Dr. Th. Paraskumar Singh
10.08.2019

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Course Outcome

Course Name: Elements of Electrical Engg.
Course Code: EE 19.101
Credit Hours: 4
Semester, Year: Autumn 2019-20, I Year
Branch: EE
Prerequisite: Basics of Engg. Physics, Mathematics

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
EE 19.101.1	Gain fundamental knowledge of the basic electrical elements such as resistance, capacitors and inductances.	Remember
EE 19.101.2	Understand circuit representation as graphs and implementation of KVL and KCL in the circuits and to solve the circuit problems by Laplace transformation method and also by applying various networks theorems.	Understand
EE 19.101.3	Apply Thevenin and Norton theorems and concept of linearity and superposition to analyze and design circuits and networks.	Apply
EE 19.101.4	Analyze small RLC circuits by hand. Use network techniques, like node analysis and loop analysis, to write equations for large linear circuits.	Analyze
EE 19.101.5	Evaluate Hurwitz polynomials, positive real functions, LC immittance function, synthesis of LC driving point immittance, RC driving point impedances, RL admittances, synthesis of RLC functions.	Evaluate
EE 19.101.6	Implement mini projects based on concepts of analog communication.	Create

Faculty Name: Dr. Th. Paraskumar Singh
10.08.2019

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Course Outcome

Course Name: Solar Energy Engineering
Course Code: EE 19.503
Credit Hours: 4
Semester, Year: Autumn, I (2019)
Branch: Renewable Energy
Prerequisite: Power Plant Engineering (EE 14.305)

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
EE 19.503.1	Understand availability of solar radiation, solar geometry, instrument used for measuring solar radiation.	Understand
EE 19.503.2	Explain working, construction and performance evaluation of solar thermal devices.	Evaluate
EE 14.503.3	Understand a solar resource assessment of a potential site. And estimation of shadow formation, tilt angle and orientation of PV panels.	Create
EE 14.503.4	Describe and analyze of various thermal energy storage systems.	Analyze
EE 14.503.5	Analyze and design solar thermal systems for appropriate application.	Analyze
EE 14.503.6	Have appropriate knowledge on solar energy based thermal power plant.	Create

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10.08.2019

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Course Outcome

Course Name: Control System Engineering
Course Code: EE 14.303
Credit Hours: 4
Semester, Year: Autumn, III (2019)
Branch: Electrical Engineering
Prerequisite: Network Analysis and Synthesis (EE 14.201)

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
EE 14.303.1	Student will able to identify open loop and closed loop control system.	Understand
EE 14.303.2	Student will able to formulate mathematical model for physical systems (analogous system).	Create
EE 14.303.3	Students will be able to simplify representation of complex systems using reduction techniques.	Create
EE 14.303.4	Student will able to Analyze and use standard test signals to identify performance characteristics of first and second order systems.	Analyze
EE 14.303.5	Student will able to apply Routh-Hurwitz and plotting techniques like root locus, polar plot, niquist plot, bode plot and Nichols chart for stability analysis.	Apply
EE 14.303.6	Student will able to analyze and design the system in state space representation.	Analyze

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Course Outcome

Course Name: Power System Laboratory
Course Code: EE 14.421
Credit Hours: 1
Semester, Year: Autumn, IV (2019)
Branch: Electrical Engineering
Prerequisite: Power System Protection, Transmission & Distribution

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
EE 14.421.1	Develop an insightful knowledge on various protective relays, load flow studies and solar PV panels.	Understand
EE 14.421.2	Test of Gas Actuated Buchhloz relay, over-current, under voltage, under frequency, microprocessor based earth fault and differential type relays.	Analyze
EE 14.421.3	Understand simulation studies using MATLAB / ETAP software and apply on load flow studies in power system.	Apply
EE 14.421.4	Model, Design and evaluate power system problems (sending and receiving end transmission line parameters, load flow studies), buck-boost converter and solar panel characteristics using MATLAB software.	Evaluate

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Dr. Sunita Kumari
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Course Outcome

Course Name: Power System Protection
Course Code: EE 17.419
Credit Hours: 4
Semester, Year: Autumn, IV (2019)
Branch: Electrical Engineering
Prerequisite: Electrical Machines & Power Plant Engineering

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
EE 17.419.1	Understand of different protection schemes adopted in power system, operation of various switchgear equipment and protection of different electrical equipments.	Understand
EE 17.419.2	Apply the working principle and characteristic of various types of relays and its applications	Apply
EE 17.419.3	Identify, apply, and evaluate settings for over-current, directional over-current, distance, differential and pilot protection schemes	Evaluate
EE 17.419.4	Select the appropriate protection schemes for power lines, transformer, generator and bus bar protection schemes and analyze power system faults for balanced and unbalanced conditions	Analyze
EE 17.419.5	Understand the basic types and ratings of circuit breaker and its terminologies.	Understand
EE 17.419.6	Apply and evaluate the knowledge of science and engineering for the installation/testing of circuit breakers.	Create

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Course Outcome

Course Name: FUNDAMENTALS OF SIGNAL PROCESSING
Course Code: EC 14.307
Credit Hours: 4
Semester, Year: AUTUMN, III
Branch: ELECTRICAL ENGINEERING
Prerequisite:

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
EC 14.307.1	Fundamentals of Signal Operations, Convolution	Understand
EC 14.307.2	Signals and System Causality and Stability, Magnitude & Frequency Response	Analyze
EC 14.307.3	Transformations of Signal (Fourier, Z-Transform, FFT, etc.)	Apply
EC 14.307.4	FIR & IIR Filters	Create
EC 14.307.5	Realization of Filter	Evaluate
EC 14.307.6	Sampling Theory	Understand

Manish Kumar

Faculty Name: Dr. Manish Kumar

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Course Outcome

Course Name: Heat Transfer & Fluid Mechanics

Course Code: ME 19.501

Credit Hours: 4

Semester, Year: Autumn, I

Branch: Renewable Engineering

Prerequisite: Physics & Mathematics

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
ME 19.501.1	To understand the basic concepts of conduction and application of different equations of conduction for three dimensional system	Understand
ME 19.501.2	To apply the concept of convection in different types of system like heat exchanger, boundary layer analysis etc.	Apply
ME 19.501.3	To analyse the concept of radiation in different types of surface as well systems	Analyse
ME 19.501.4	To understand the various types of fluid and their properties	Understand
ME 19.501.5	To analyse various types of flow field in different types of fluid governing systems	Analyse

Faculty Name: Dr. Vivek Pandey

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Course Outcome (CO)

Course Name: Network Analysis and Synthesis Laboratory
Course Code: EE 14.221
Credit Hours: 1
Semester, Year: (autumn), II
Branch: B. Tech. (EE)
Prerequisite: Fundamental of Electrical Engg

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy	Q. No.
	At the end of the course, Student will be able to:	Layer	
EE 14.221.1	Remember concepts of communication systems, analog and digital signals as well as important parameters of communication.	Remember	1, 2
EE 14.221.2	Understand linear modulation and demodulation techniques, various angular modulation and demodulation techniques as well as distinct digital communication techniques.	Understand	2, 3
EE 14.221.3	Apply critical mathematical expressions and distinct digital communication techniques to solve engineering problems.	Apply	3, 4, 8
EE 14.221.4	Analyze different modulation and demodulation techniques, various angular modulation and demodulation schemes as well as advanced communication techniques.	Analyze	4, 5, 9
EE 14.221.5	Evaluate different digital communication and advanced communication techniques.	Evaluate	5, 6, 10
EE 14.221.6	Create new projects based on advanced communication techniques and solve novel numerical problems.	Create	7

Neetu Sharma

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CO Number	Total CO Marks	%CO
EE 14.221.1	10	14
EE 14.221.2	10	14
EE 14.221.3	15	21
EE 14.221.4	15	21
EE 14.221.5	15	22
EE 14.221.6	5	8
Total	**70**	**100**

Taxonomy	Total Taxonomy Marks	% Taxonomy
Remember	10	14
Understand	10	14
Apply	15	21
Analyze	15	21
Evaluate	15	22
Create	5	8
Total	**70**	**100**

Dr. Jeetu Sharma

Jeetu Sharma

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Course Outcome (CO)

Course Name: Advanced RE Simulation Laboratory
Course Code: EE 19.532
Credit Hours: 1
Semester, Year: (spring), I
Branch: M. Tech. (RE)
Prerequisite: Fundamental of MATLAB

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy	Q. No.
	At the end of the course, Student will be able to:	Layer	
EE 19.532.1	Remember concepts of communication systems, analog and digital signals as well as important parameters of communication.	Remember	1, 2
EE 19.532.2	Understand linear modulation and demodulation techniques, various angular modulation and demodulation techniques as well as distinct digital communication techniques.	Understand	2, 3
EE 19.532.3	Apply critical mathematical expressions and distinct digital communication techniques to solve engineering problems.	Apply	3, 4, 8
EE 19.532.4	Analyze different modulation and demodulation techniques, various angular modulation and demodulation schemes as well as advanced communication techniques.	Analyze	4, 5, 9
EE 19.532.5	Evaluate different digital communication and advanced communication techniques.	Evaluate	5, 6, 10
EE 19.532.6	Create new projects based on advanced communication techniques and solve novel numerical problems.	Create	7

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CO Number	Total CO Marks	%CO
EE 14.221.1	10	14
EE 14.221.2	10	14
EE 14.221.3	15	21
EE 14.221.4	15	21
EE 14.221.5	15	22
EE 14.221.6	5	8
Total	**70**	**100**

Taxonomy	Total Taxonomy Marks	% Taxonomy
Remember	10	14
Understand	10	14
Apply	15	21
Analyze	15	21
Evaluate	15	22
Create	5	8
Total	**70**	**100**

Dr. Jeetu Sharma

Jeetu Sharma

	b.	8	EE 14.405.5	Evaluate
8	a.	8	EE 14.405.5	Evaluate
	b.	8	EE 14.405.4	Analyze

CO Number	Total CO Marks	%CO
EE 14.405.1	10	8
EE 14.405.2	26	20
EE 14.405.3	16	12
EE 14.405.4	40	30
EE 14.405.5	24	18
EE 14.405.6	16	12
Total	**132**	**100**

Taxonomy	Total Taxonomy Marks	% Taxonomy
Remember	10	8
Understand	26	20
Apply	16	12
Analyze	40	30
Evaluate	24	18
Create	16	12
Total	**132**	**100**

Dr. D L Punia

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CO Number	Total CO Marks	%CO
EC 14.221.1	10	14
EC 14.221.2	10	14
EC 14.221.3	15	21
EC 14.221.4	15	21
EC 14.221.5	15	22
EC 14.221.6	5	8
Total	**70**	**100**

Taxonomy	Total Taxonomy Marks	% Taxonomy
Remember	10	14
Understand	10	14
Apply	15	21
Analyze	15	21
Evaluate	15	22
Create	5	8
Total	**70**	**100**

Dr. ~~JECtu Sharma~~ Jeetu Sharma

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Course Outcome (CO)

Course Name: Principles and Practices of Management
Course Code: EE 14.442
Credit Hours: 3
Semester, Year: (spring), IV
Branch: B. Tech. (EE)
Prerequisite:

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy	Q. No.
	At the end of the course, Student will be able to:	Layer	
EE 14.442.1	Remember concepts of communication systems, analog and digital signals as well as important parameters of communication.	Remember	1, 2
EE 14.442.2	Understand linear modulation and demodulation techniques, various angular modulation and demodulation techniques as well as distinct digital communication techniques.	Understand	2, 3
EE 14.442.3	Apply critical mathematical expressions and distinct digital communication techniques to solve engineering problems.	Apply	3, 4, 8
EE 14.442.4	Analyze different modulation and demodulation techniques, various angular modulation and demodulation schemes as well as advanced communication techniques.	Analyze	4, 5, 9
EE 14.442.5	Evaluate different digital communication and advanced communication techniques.	Evaluate	5, 6, 10
EE 14.442.6	Create new projects based on advanced communication techniques and solve novel numerical problems.	Create	7

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CO Number	Total CO Marks	%CO
EE 14.442.1	10	14
EE 14.442.2	10	14
EE 14.442.3	15	21
EE 14.442.4	15	21
EE 14.442.5	15	22
EE 14.442.6	5	8
Total	**70**	**100**

Taxonomy	Total Taxonomy Marks	% Taxonomy
Remember	10	14
Understand	10	14
Apply	15	21
Analyze	15	21
Evaluate	15	22
Create	5	8
Total	**70**	**100**

Dr. Divya Mathur

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Course Outcome (CO)

Course Name: Basic RE Simulation Laboratory-I
Course Code: EE 19.531
Credit Hours: 1
Semester, Year: (autumn), I
Branch: B. Tech. (EE)
Prerequisite: Elements of Electrical Engineering

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy	Q. No.
	At the end of the course, Student will be able to:	Layer	
EE 19.531.1	To study the Building a One-Line Diagram of conventional power system and study of various power system components..	Remember	1, 2
EE 19.531.2	Understand Building a simulation model of power system with renewable like solar and wind.	Understand	2, 3
EE 19.531.3	Apply Calculation of Transmission Line Parameters.	Apply	3, 4, 8
EE 19.531.4	Analyze Load flow analysis.	Analyze	4, 5, 9
EE 19.531.5	Evaluate the Simulation of various faults and short circuit analysis for a given power system techniques.	Evaluate	5, 6, 10
EE 19.531.6	Create new projects based Simulation and study of various power quality events like voltage sag, harmonics.	Create	7

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Course Outcome (CO)

Course Name: Advanced RE Simulation Laboratory
Course Code: EE 19.532
Credit Hours: 1
Semester, Year: (spring), I
Branch: M. Tech. (RE)
Prerequisite: Fundamental of MATLAB

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy	Q. No.
	At the end of the course, Student will be able to:	Layer	
EE 19.532.1	Remember concepts of communication systems, analog and digital signals as well as important parameters of communication.	Remember	1, 2
EE 19.532.2	Understand linear modulation and demodulation techniques, various angular modulation and demodulation techniques as well as distinct digital communication techniques.	Understand	2, 3
EE 19.532.3	Apply critical mathematical expressions and distinct digital communication techniques to solve engineering problems.	Apply	3, 4, 8
EE 19.532.4	Analyze different modulation and demodulation techniques, various angular modulation and demodulation schemes as well as advanced communication techniques.	Analyze	4, 5, 9
EE 19.532.5	Evaluate different digital communication and advanced communication techniques.	Evaluate	5, 6, 10
EE 19.532.6	Create new projects based on advanced communication techniques and solve novel numerical problems.	Create	7

Course Outcome (CO)

Course Name: Advanced RE Simulation Laboratory
Course Code: EE 19.532
Credit Hours: 1
Semester, Year: (spring), I
Branch: M. Tech. (RE)
Prerequisite: Fundamental of MATLAB

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy	Q. No.
	At the end of the course, Student will be able to:	Layer	
EE 19.532.1	Remember concepts of communication systems, analog and digital signals as well as important parameters of communication.	Remember	1, 2
EE 19.532.2	Understand linear modulation and demodulation techniques, various angular modulation and demodulation techniques as well as distinct digital communication techniques.	Understand	2, 3
EE 19.532.3	Apply critical mathematical expressions and distinct digital communication techniques to solve engineering problems.	Apply	3, 4, 8
EE 19.532.4	Analyze different modulation and demodulation techniques, various angular modulation and demodulation schemes as well as advanced communication techniques.	Analyze	4, 5, 9
EE 19.532.5	Evaluate different digital communication and advanced communication techniques.	Evaluate	5, 6, 10
EE 19.532.6	Create new projects based on advanced communication techniques and solve novel numerical problems.	Create	7

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Course Outcome (CO)

Course Name: Advanced RE Simulation Laboratory
Course Code: EE 19.532
Credit Hours: 1
Semester, Year: (spring), I
Branch: M. Tech. (RE)
Prerequisite: Fundamental of MATLAB

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy	Q. No.
	At the end of the course, Student will be able to:	Layer	
EE 19.532.1	Remember concepts of communication systems, analog and digital signals as well as important parameters of communication.	Remember	1, 2
EE 19.532.2	Understand linear modulation and demodulation techniques, various angular modulation and demodulation techniques as well as distinct digital communication techniques.	Understand	2, 3
EE 19.532.3	Apply critical mathematical expressions and distinct digital communication techniques to solve engineering problems.	Apply	3, 4, 8
EE 19.532.4	Analyze different modulation and demodulation techniques, various angular modulation and demodulation schemes as well as advanced communication techniques.	Analyze	4, 5, 9
EE 19.532.5	Evaluate different digital communication and advanced communication techniques.	Evaluate	5, 6, 10
EE 19.532.6	Create new projects based on advanced communication techniques and solve novel numerical problems.	Create	7

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Course Outcome (CO)

Course Name: Solar Photovoltaic Engineering
Course Code: EE 19.506
Credit Hours: 4
Semester, Year: (spring), II
Branch: M. Tech. (RE)
Prerequisite: Solar System Engineering

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy	Q. No.
	At the end of the course, Student will be able to:	Layer	
EE 19.506.1	Remember concepts of solar systems, analog and digital signals as well as important parameters of solar.	Remember	1, 2
EE 19.506.2	Understand linear modulation and demodulation techniques, various angular modulation and demodulation techniques as well as distinct digital solar techniques.	Understand	2, 3
EE 19.506.3	Apply critical mathematical expressions and distinct digital solar techniques to solve engineering problems.	Apply	3, 4, 8
EE 19.506.4	Analyze different modulation and demodulation techniques, various angular modulation and demodulation schemes as well as advanced solar techniques.	Analyze	4, 5, 9
EE 19.506.5	Evaluate different digital solar and advanced solar techniques.	Evaluate	5, 6, 10
EE 19.506.6	Create new projects based on advanced solar techniques and solve novel numerical problems.	Create	7

Course Outcome (CO)

Course Name: Power Electronics for Renewable Energy Source (Elective II)
Course Code: EE 19.512
Credit Hours: 1
Semester, Year: (autumn), I
Branch: B. Tech. (EE)
Prerequisite: Power Electronics, Renewable Energy

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy	Q. No.
	At the end of the course, Student will be able to:	Layer	
EE 19.512.1	Remember concepts of communication systems, analog and digital signals as well as important parameters of communication.	Remember	1, 2
EE 19.512.2	Understand linear modulation and demodulation techniques, various angular modulation and demodulation techniques as well as distinct digital communication techniques.	Understand	2, 3
EE 19.512.3	Apply critical mathematical expressions and distinct digital communication techniques to solve engineering problems.	Apply	3, 4, 8
EE 19.512.4	Analyze different modulation and demodulation techniques, various angular modulation and demodulation schemes as well as advanced communication techniques.	Analyze	4, 5, 9
EE 19.512.5	Evaluate different digital communication and advanced communication techniques.	Evaluate	5, 6, 10
EE 19.512.6	Create new projects based on advanced communication techniques and solve novel numerical problems.	Create	7

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Course Outcome (CO)

Course Name: Power Electronics for Renewable Energy Source (Elective-II)
Course Code: EE 19.512
Credit Hours: 1
Semester, Year: (autumn), I
Branch: B. Tech. (EE)
Prerequisite: Power Electronics, Renewable Energy

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy	Q. No.
	At the end of the course, Student will be able to:	Layer	
EE 19.512.1	Remember concepts of communication systems, analog and digital signals as well as important parameters of communication.	Remember	1, 2
EE 19.512.2	Understand linear modulation and demodulation techniques, various angular modulation and demodulation techniques as well as distinct digital communication techniques.	Understand	2, 3
EE 19.512.3	Apply critical mathematical expressions and distinct digital communication techniques to solve engineering problems.	Apply	3, 4, 8
EE 19.512.4	Analyze different modulation and demodulation techniques, various angular modulation and demodulation schemes as well as advanced communication techniques.	Analyze	4, 5, 9
EE 19.512.5	Evaluate different digital communication and advanced communication techniques.	Evaluate	5, 6, 10
EE 19.512.6	Create new projects based on advanced communication techniques and solve novel numerical problems.	Create	7

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email: dean.set@modyuniversity.ac.in • www.modyuniversity.ac.in

Course Outcome

Course Name: Digital Electronics
Course Code: EC 14.203
Credit Hours: 4 (3-1-0-4)
Semester, Year: IV (Spring), II
Branch: EE
Prerequisite: Basics of mathematics, electrical, electronics and computers

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	Layer
EC 14.203.1	Remember number systems, digital codes and Boolean laws. Remember the concept of designing of advanced digital circuits and memories.	Remember
EC 14.203.2	Understand number systems, digital codes and Boolean laws. Understand the concept of designing of advanced digital circuits and memories.	Understand
EC 14.203.3	Apply various Boolean laws to solve engineering problems. Apply the concepts of digital electronics to create new circuits.	Applying
EC 14.203.4	Analyze the influence of various logical expressions simplification and logic families. Analyze the performance of basic digital circuits.	Analyze
EC 14.203.5	Evaluate the influence of various logical expressions simplification. Evaluate the performance of basic digital circuits.	Evaluating
EC 14.203.6	Design and create basic combinational circuits. Logically create and understand different memory cells. Create basic and advanced sequential logic circuits. Create synchronous and asynchronous basic digital circuits.	Creating

Dr. Vikas Rana 30/12/2020

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Course Outcome (CO)

Course Name: Electrical Machines I Laboratory
Course Code: EE 14.223
Credit Hours: 1
Semester, Year: (autumn), II
Branch: B. Tech. (EE)
Prerequisite: Fundamental of Electrical Engg

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy	Q. No
	At the end of the course, Student will be able to:	Layer	
EE 19.223.1	Remember concepts of communication systems, analog and digital signals as well as important parameters of communication.	Remember	1, 2
EE 19.223.2	Understand linear modulation and demodulation techniques, various angular modulation and demodulation techniques as well as distinct digital communication techniques.	Understand	2, 3
EE 19.223.3	Apply critical mathematical expressions and distinct digital communication techniques to solve engineering problems.	Apply	3, 4, 8
EE 19.223.4	Analyze different modulation and demodulation techniques, various angular modulation and demodulation schemes as well as advanced communication techniques.	Analyze	4, 5, 9
EE 19.223.5	Evaluate different digital communication and advanced communication techniques.	Evaluate	5, 6, 10
EE 19.223.6	Create new projects based on advanced communication techniques and solve novel numerical problems.	Create	7

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Course Outcome

Course Name: Advanced Mathematics
Course Code: MA19.509
Credit Hours: 4
Semester, Year: Autumn-2019, I
Branch: EE
Prerequisite: Mathematics-I, Mathematics-II & Mathematics-III

Module wise Course Outcome (CO)

Module	Course Outcome Number	Course Outcome	Bloom Taxonomy
		At the end of the course, Student will be able to:	
Unit 1	MA19.509.1	Basics of numerical methods, finite differences and probability. Probability	Remember
Unit 2	MA19.509.2	Explain the calculations of Distribution functions for discrete and continuous random variables. Forward, Backward and different interpolation for equal and unequal data.	Understand
Unit 3	MA19.509.3	Solve the problems related to Baye's Theorem. correlation and regression coefficient, sampling distribution, Concepts of stochastic processes by Monto Carlo method. Apply the different distributions like binomial, Poisson, normal, uniform etc.	Apply
Unit 4	MA19.509.4	Define the different aspects of Total Probability Theorem, Baye`s theorem, Probability mass function, Probability density function, correlation and regression coefficient, sampling and queue.	Analyse
Unit 5	MA19.509.5	Evaluate Numerical integration, Compare all the aspects of PDF, PMF, Sampling distribution, Hypothesis.	Evaluate
Unit 5	MA19.509.6	Create Hypothesis, correlation and Regressions.	Create

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Course Outcome

Course Name: Advanced Mathematics
Course Code: MA19.509
Credit Hours: 4
Semester, Year: Autumn-2019, I
Branch: EE
Prerequisite: Mathematics-I, Mathematics-II & Mathematics-III

Module wise Course Outcome (CO)

Module	Course Outcome Number	Course Outcome	Bloom Taxonomy
		At the end of the course, Student will be able to:	
Unit 1	MA19.509.1	Basics of numerical methods, finite differences and probability. Probability	Remember
Unit 2	MA19.509.2	Explain the calculations of Distribution functions for discrete and continuous random variables. Forward, Backward and different interpolation for equal and unequal data.	Understand
Unit 3	MA19.509.3	Solve the problems related to Baye's Theorem, correlation and regression coefficient, sampling distribution, Concepts of stochastic processes by Monto Carlo method. Apply the different distributions like binomial, Poisson, normal, uniform etc.	Apply
Unit 4	MA19.509.4	Define the different aspects of Total Probability Theorem, Baye`s theorem, Probability mass function, Probability density function, correlation and regression coefficient, sampling and queue.	Analyse
Unit 5	MA19.509.5	Evaluate Numerical integration, Compare all the aspects of PDF, PMF, Sampling distribution, Hypothesis.	Evaluate
Unit 5	MA19.509.6	Create Hypothesis, correlation and Regressions.	Create

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Course Outcome (CO)

Course Name: Electronic Devices and Circuits Laboratory
Course Code: EC 14.221
Credit Hours: 1
Semester, Year: (autumn), II
Branch: B. Tech. (EC)
Prerequisite: Fundamental of Electronics Engg.

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy	Q. No.
	At the end of the course, Student will be able to:	Layer	
EC 14.221.1	Remember concepts of communication systems, analog and digital signals as well as important parameters of communication.	Remember	1, 2
EC 14.221.2	Understand linear modulation and demodulation techniques, various angular modulation and demodulation techniques as well as distinct digital communication techniques.	Understand	2, 3
EC 14.221.3	Apply critical mathematical expressions and distinct digital communication techniques to solve enginECring problems.	Apply	3, 4, 8
EC 14.221.4	Analyze different modulation and demodulation techniques, various angular modulation and demodulation schemes as well as advanced communication techniques.	Analyze	4, 5, 9
EC 14.221.5	Evaluate different digital communication and advanced communication techniques.	Evaluate	5, 6, 10
EC 14.221.6	Create new projects based on advanced communication techniques and solve novel numerical problems.	Create	7

Jeetu Sharma

MODY UNIVERSITY OF SCIENCE AND TECHNOLOGY
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School of Architecture

Course Outcomes

	Faculty Name:		Mahesh Kumar	
	program Name		B.Arch	
	AY		2019-20	
	Semester		V	
Course Code	**Course Name**	**CO Number**	**CO Statement**	**Taxonomy**
			After completing the course, Students will be able to	
AD 361	**Climatology**	**AD 361.1**	Analyse impacts of climate on architectural design and dealing with them.	Analyse
		AD 361.2	explain climatic perameters & the classification of climatic zones of india.	Understand
		AD 361.3	apply solar passive cooling & heating techniques.	Apply
		AD 361.4	make solutions for environmental impacts like global warming, heat iceland effect etc.	Create
		AD 361.5	Apply the concept of green buildings & certification criterias for LEED, GRIHA, IGBC.	Apply
		AD 361.6	design the climatic responsive buildings.	Create
	Faculty Signature			

		School of Architecture		
			Course Outcomes	
	ne:		Payal Gupta	
	me		B.Arch	
	AY		2019-20	
	Semester		5th	
Course Code	**Course Name**	**CO Number**	**CO Statement**	**Taxonomy**
			After completing the course, Students will be able to	
AD 351	**Advance Building Services (HVAC & mechanical)**	**AD 351.1**	**Develop** understanding of daylighting	Understand
		AD 351.2	**Develop** understanding of lighting and their application in design.	Apply
		AD 351.3	**Comprehends** ventilation and lighting as important element in design and its application while planning spaces	Apply
		AD 351.4	**Develop** understanding of fundamentals of architectural acoustics.	Understand
		AD 351.5	**Explain** different phenomenon and principles related to sound propagation and their implications on building design.	Understand
		AD 351.6	**Summarize** the common acoustical defects in an auditorium and the ways to avoid / correct them.	Understand
		AD 351.7	**Describe** the different types of noise, their transmission and the measures to isolate / control them.	Remember
	Faculty Signature			

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			Course Outcomes	
	Faculty Name:		Chavi Jain	
	Program Name		B.Arch.	
	AY		2019-20	
	Semester		5th	
Course Code	**Course Name**	**CO Number**	**CO Statement**	**Taxonomy**
			After completing the course, Students will be able to	
AD 311	**Architectural Design - V**	**AD 311.1**	apply various advanced structural systems and latest building materials.	Apply
		AD 311.2	analyze new technology, structural system and materials.	Analyze
		AD 311.3	analyze & Formulate through drawings or models methods developed to meet various requirements.	Analyze
		AD 311.4	new techniques and systems in their design.	Apply
		AD 311.5	services (studied in previous and present semester) at building level in their design.	Apply
		AD 311.6	create study models with precision (or Graphics) of chosen structure for designed space.	Create
	Faculty Signature			

MODY UNIVERSITY OF SCIENCE AND TECHNOLOGY
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School of Architecture

Course Outcomes

Pallavi
B.Arch.
2019-20
5th

CO Number	CO Statement	Taxonomy
	After completing the course, Students will be able to	
AD 321.1	learn about doors and windows in steel and aluminum sections. Also integration of openings with partitions in steel and aluminum used in interior of buildings.	Understand
AD 321.2	understand the variety of available metal sections for varied uses.	Understand
AD 321.3	able to evaluate the best suitable material and type of Door,Window and Partitions.	Evaluate
AD 321.4	gain knowledge of properties & specifications of ferrous & nonferrous metals.	Remember
AD 321.5	apply Damp/ waterproofing techniques.	Apply
AD 321.6	create drawings and designs based on the acquired knowledge.	Create

		School of Architecture		
			Course Outcomes	
	Faculty Name:		Vikas Kumar pandey	
	program Name		B.Arch	
	AY		2019-20	
	Semester		5th	
Course Code	**Course Name**	**CO Number**	**CO Statement**	**Taxonomy**
			After completing the course, Students will be able to	
AD 331	**Structure Design & Systems-V**	**AD 331.1**	To design concrete mix as per IS10269:2012	Evaluate
		AD 331.2	To design RCC elements such as beams, slab, columns, footings	Create
		AD 331.3	To Design RCC stair-case.	Create
		AD 331.4	To describe the role of ingredients of concrete	Create
	Faculty Signature			

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School of Architecture

Course Outcomes

	Faculty Name:		Gagan Jain	
	Program Name		B.Arch.	
	AY		2019-20	
	Semester		5th	
Course Code	**Course Name**	**CO Number**	**CO Statement**	**Taxonomy**
			After completing the course, Students will be able to	
AD 341	**Landscape Architecture**	**AD 341.1**	recognize the various land forms, natural patterns and systems	Remember
		AD 341.2	identify the elements & principles of landscape architecture	Remember
		AD 341.3	Identify the historic landscape patterns	Remember
		AD 341.4	Identify the development processes and cycles in the urban landscapes	Remember
		AD 341.5	Recognizes how it has been done in the past along with present state of art	Remember
		AD 341.6	Understand the role of urban biodiversity	Apply
		AD 341.7	Conduct a Landscape analysis and evaluate it with required functions	Apply
		AD 341.8	knowledge base to deal with complex urban and human induced landscape design issues.	Apply
		AD 341.9	Develop a site plan with landscape design and relate with environment and ecology	Apply
	Faculty Signature			

		School of Architecture		
			Course Outcomes	
	Faculty Name:		Mahesh Kumar	
	program Name		B.Arch	
	AY		2019-20	
	Semester		VII	
Course Code	**Course Name**	**CO Number**	**CO Statement**	**Taxonomy**
			After completing the course, Students will be able to	
AD 411	**Architectural Design VII**	**AD 411.1**	explain about the Architectural design fundamentals & design methods.	Understand
		AD 411.2	apply the sustainable aspects in achitectural design.	apply
		AD 411.3	apply urban design contexts.	apply
		AD 411.4	explain the role of architecture in shaping up large scale projects.	Understand
		AD 411.5	create architecture which fits into a specific context.	Create
		AD 411.6	apply the ECBC, NBC & development authorities norms in their design project.	Apply
	Faculty Signature			

		School of Architecture		
			Course Outcomes	
	Faculty Name:		Payal Gupta	
	program Name		B.Arch	
	AY		2020-21	
	Semester		7th	
Course Code	**Course Name**	**CO Number**	**CO Statement**	**Taxonomy**
			After completing the course, Students will be able to	
AD 411	**Architectural Design VII**	**AD 411.1**	**Value** various advanced structural systems and latest building materials.	Remember
		AD 411.2	**Questions** new technology, structural system and materials.	Understand
		AD 411.3	**Formulate** through drawings or models methods developed to meet various requirements.	Create
		AD 411.4	**Apply** new techniques and systems in their design.	Apply
		AD 411.5	**Apply** services (studied in previous and present semester) at building level in their design.	Apply
		AD 411.6	**Build** study models with precision (or Graphics) of chosen structure for designed space.	Create
	Faculty Signature			

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Course Outcomes

	Faculty Name:		Kamlesh P M	
	Program Name		B.Arch.	
	AY		2019-20	
	Semester		7TH	
Course Code	**Course Name**	**CO Number**	**CO Statement**	**Taxonomy**
			After completing the course, Students will be able to	
AD 441	**Professional Practice-II (Valuation & Contract documents)**	**AD 441.1**	Create Architectural enterpenureship	Create
		AD 441.2	Analyze Architectural competition	Analyze
		AD 441.3	Recognize legal aspects of execution process	Understand
		AD 441.4	Evaluate Valuation of properties and its rent.	Evaluate
		AD 441.5	Apply out sourcing in Architectural profession.	Apply
		AD 441.6	Compare special laws rules and regulations related to profession	Apply
	Faculty Signature			

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School of Architecture

Course Outcomes

	Faculty Name:		Kamlesh P M, Payal, Mahesh, Aswini, Pallavi, Chavi, Gagan	
	Program Name		B.Arch.	
	AY		2019-20	
	Semester		7TH	
Course Code	**Course Name**	**CO Number**	**CO Statement**	**Taxonomy**
			After completing the course, Students will be able to	
AD 451	**Dissertation**	**AD 451.1**	Identify research papers published in Journals for a study	Remamber
		AD 451.2	Organize a study based on literature survey	Apply
		AD 451.3	Identify research methods for study	Apply
		AD 451.4	Identify area of research for thesis	Remamber
		AD 451.5	Apply research methods in case study	Apply
		AD 451.6	Present paper in a seminar	Remamber
		AD 451.7	Practice Citation	Understand
		AD 451.8	Develop ethics of publication	Understand
		AD 451.9	Identify research papers published in Journals for a study	Remamber
	Faculty Signature			

		School of Planning,Architecture & Interior Design		
			Course Outcomes	
	Faculty Name:		Ashwini Tiwari	
	program Name		B.Arch	
	AY		2019-20	
	Semester		VII	
Course Code	**Course Name**	**CO Number**	**CO Statement**	**Taxonomy**
			After completing the course, Students will be able to	
AD 421	**Advance Building Construction-I**	**AD 421.1**	work on complex aspects of construction.	Create
		AD 421.2	apply systems & techniques of construction systems for large spans.	Apply
		AD 421.3	design with plastic, PVC, water proofing materials etc.	Create
		AD 421.4	apply special concreting methods.	Apply
		AD 421.5	design temporary structures.	create
		AD 421.6	apply alternate construction techniques in their design projects.	apply
	Faculty Signature			

Advance building Construction I `
AD 421
Course outcome

S.No.	Outcome	Taxonomy
AD 421.1	Understanding of material properties	Understand
AD 421.2	Types of special concrete	Remember
AD 421.3	Appropriate material and technology for different types of construction	Evaluate
AD 421.4	Models of different kind of trusses	Create
AD 421.5	Application of various materials in construction	Apply
AD 421.6	Application and analysis of temporary structures	Analyze

Faculty

Ar. Ashwini Tiwari

Professional Practice- II`
AD 441
Course outcome

S.No.	Outcome	Taxonomy
AD 441.1	Understand Architectural entrepreneurship	Understand
AD 441.2	Create Architectural entrepreneurship	Remember
AD 441.3	Evaluate Valuation of properties and its rent.	Evaluate
AD 441.4	Create Architectural entrepreneurship	Create
AD 441.5	Apply outsourcing in Architectural profession.	Apply
AD 441.6	Analyze Architectural competition.	Analyze

Faculty

Ar. Ashwini Tiwari

		School of Architecture		
			Course Outcomes	
	Faculty Name:		Payal Gupta	
	program Name		B.Arch	
	AY		2019-20	
	Semester		9th	
Course Code	**Course Name**	**CO Number**	**CO Statement**	**Taxonomy**
			After completing the course, Students will be able to	
AD 511	**Architectural Design VIII**	**AD 511.1**	**Apply** the experience gained during the training semester in current design projects	**Apply**
		AD 511.2	To **compare** the built and un-built environment around.	**Remember**
		AD 511.3	**Organize** to work in a team.	**Remember**
		AD 511.4	**Plot** an appropriate program for a project.	**Apply**
		AD 511.5	**Formulate** and **Highlight** the issues.	**Understand**
		AD 511.6	**Justifies** the environment for sensitivity.	**Apply**
	Faculty Signature			

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School of Architecture

Course Outcomes

	Faculty Name:		Kamlesh P M	
	Program Name		B.Arch.	
	AY		2019-20	
	Semester		9th	
Course Code	**Course Name**	**CO Number**	**CO Statement**	**Taxonomy**
			After completing the course, Students will be able to	
AD 521	**Professional Practice-III (Legal implications & business management)**	**AD 521.1**	Students will understand complex technicality of the profession	Understand
		AD 521.2	Apply out sourcing in Architectural profession.	Apply
		AD 521.3	Compare special laws rules and regulations related to profession	Apply
		AD 521.4	Recognize legal aspects of execution process	Understand
	Faculty Signature			

School of Architecture

Course Outcomes

	Faculty Name:		Gagan Jain, Gaurav Nadda	
	Program Name		B.Arch.	
	AY		2019-20	
	Semester		9th	
Course Code	**Course Name**	**CO Number**	**CO Statement**	**Taxonomy**
			After completing the course, Students will be able to	
AD 531	**Advance Building Construction - II**	**AD 531.1**	learn about earthquake resistant construction techniques.	Understand
		AD 531.2	able to make construction details of pile & raft foundation.	Create
		AD 531.3	create structures like geodesic domes & space frame structure	Create
		AD 531.4	able to apply precast & pre-stressed construction techniques.	Apply
		AD 531.5	analyze various fire proof finishes & insulation materials	Analyze
		AD 531.6	learn about alternative materials like ferro cement.	Remember
	Faculty Signature			

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School of Architecture

Course Outcomes

	Faculty Name:		Tarun Gupta	
	Program Name		B.Arch.	
	AY		2019-20	
	Semester		9th	
Course Code	**Course Name**	**CO Number**	**CO Statement**	**Taxonomy**
			After completing the course, Students will be able to	
AD 541	**Thesis Orientation**	**AD 541.1**	Students get equipped with the skill in the basics of dissertation writing and critical thinking	Understand
		AD 541.2	learn to Review a book and a research paper; basics of a book review, selection of reading material for review; techniques of reviewing.	Apply
		AD 541.3	basics of undertaking case study	Understand
		AD 541.4	learn referencing and cross-referencing, writing bibliography and completing the paper	Apply

Faculty Signature

Professional Practice- III`
AD 521
Course outcome

S.No.	Outcome	Taxonomy
AD 521.1	Understand Architectural entrepreneurship	Understand
AD 521.2	Create Architectural entrepreneurship	Remember
AD 521.3	Evaluate Valuation of properties and its rent.	Evaluate
AD 521.4	Create Architectural entrepreneurship	Create
AD 521.5	Apply outsourcing in Architectural profession.	Apply
AD 521.6	Analyze Architectural competition.	Analyze

Faculty

Ar. Ashwini Tiwari

		School of Architecture		
			Course Outcomes	
	Faculty Name:		Mahesh Kumar	
	program Name		B.Arch	
	AY		2019-20	
	Semester		II	
Course Code	**Course Name**	**CO Number**	**CO Statement**	**Taxonomy**
			After completing the course, Students will be able to	
BR 112	**Basic Design & workshop- II**	**BR 112.1**	Students will aware about the application of the architectural design process for small scale projects of human habitat	Understand
		BR 112.2	To evaluate the human behavioral needs into architectural program requirements	Evaluate
		BR 112.3	To understand about theinformation on context and the human-space relationship	Understand
		BR 112.4	Students will be able to analyze the desired written and presentations skills to express their designs.	Analyze
		BR 112.5	To understand the architectural spaces in a design project	Understand
		BR 112.6	Students will be able to understand the communication of the architectural drawings with the help of various mediums.	Understand
	Faculty Signature			

		School of Architecture		
			Course Outcomes	
	Faculty Name:		Mahesh Kumar	
	program Name		B.Arch	
	AY		2019-20	
	Semester		II	
Course Code	**Course Name**	**CO Number**	**CO Statement**	**Taxonomy**
			After completing the course, Students will be able to	
BR 172	**Vernacular and Traditional Architecture**	**BR 172.1**	Acquire knowledge about the vernacular architecture of India	Understand
		BR 172.2	Acquire various approaches and concepts in Traditional architecture	Understand
		BR 172.3	Analyze the settlement pattern and housing typologies in various regions.	Analyze
		BR 172.4	Make sheets with free hand sketching on the various traditional techniques.	Create
		BR 172.5	Exposure to the various traditional material and techniques by case studies.	Understand
		BR 172.6	Make models of the vernacular traditional houses.	Create
	Faculty Signature			

		School of Architecture		
			Course Outcomes	
	Faculty Name:		Mahesh Kumar	
	program Name		B.Arch	
	AY		2019-20	
	Semester		II	
Course Code	**Course Name**	**CO Number**	**CO Statement**	**Taxonomy**
			After completing the course, Students will be able to	
BR 182	**Theory of Design**	**BR 182.1**	Students will be able to understand the organization of forms and spaces	Understand
		BR 182.2	Students will learn Formulation of design	Understand
		BR 182.3	Students will remember the Principles and design Philosophies of famous architects.	Remember
		BR 182.4	Students will learn the Concept and individual work of Architects of world	Understand
		BR 182.5	Students will analyze the Works of Master Architects of India	Analyze
		BR 182.6	Students will apply the principles of theory of design in their architectural project.	Apply
	Faculty Signature			

MODY UNIVERSITY OF SCIENCE AND TECHNOLOGY LAKSHMANGARH • RAJASTHAN A Leading Women's University		School of Architecture		
			Course Outcomes	
	Faculty Name:		Payal Gupta	
	program Name		B.Arch	
	AY		2019-20	
	Semester		2nd	
Course Code	**Course Name**	**CO Number**	**CO Statement**	**Taxonomy**
			After completing the course, Students will be able to	
BR 142	**History of Architecture-I**	**BR 142.1**	Learn the development and architecture of classical period.	Understand
		BR 142.2	Learn the various architectural form, character and planning in India.	Understand
		BR 142.3	Evaluate and analyze the architectural form of northern and southern India.	Analyze
		BR 142.4	Make sheets with free hand sketching on the architectural styles.	Create
		BR 142.5	Exposure to the Islamic architectural style through case studies.	Understand
		BR 142.6	Make sketchbook and models on the architectural styles with respect to the timeline.	Create
	Faculty Signature			

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			Course Outcomes	
	Faculty Name:		Payal Gupta	
	program Name		B.Arch	
	AY		2019-20	
	Semester		2nd	
Course Code	**Course Name**	**CO Number**	**CO Statement**	**Taxonomy**
			After completing the course, Students will be able to	
BR 162	**Architectural Drawing – II (Manual)**	**BR 162.1**	**Recognize** the need to combine the use of manual drawing tools and techniques for drafting and freehand drawing for architectural design communication	Understand
		BR 162.2	**Apply** the projected drawing method of exterior and interior perspective	Apply
		BR 162.3	**Construct** one and two point perspective drawings from floor plans and elevations	Analyze
		BR 162.4	**Produce** by Drawing/sketching 3- Dimensional Architectural drawings using and freehand techniques.	Create
		BR 162.5	**Demonstrate** an understanding of furniture, people and accessories in one and two point projected perspective drawing.	Create
		BR 162.6	**Construct** conceptual and presentation drawings as a design presentation tool for various purposes	Create
	Faculty Signature			

		School of Architecture		
			Course Outcomes	
	Faculty Name:		Chavi Jain	
	Program Name		B.Arch.	
	AY		2019-20	
	Semester		2nd	
Course Code	**Course Name**	**CO Number**	**CO Statement**	**Taxonomy**
			After completing the course, Students will be able to	
BR 122	**Building Materials & Construction -II**	**BR 122.1**	understand the properties, characteristics, strength, manufacture, processing and application of materials such as brick, cement,sand and coarse aggregates etc.	Understand
		BR 122.2	learn about types of brick bonds & methods of brick construction.	Remember
		BR 122.3	understand the construction details & construction method of shallow foundations.	Understand
		BR 122.4	able to draw the details of Arches in stone & brick masonry.	Create
		BR 122.5	learn about binding materials for walls.	Remember
		BR 122.6	able to incorporate building materials & construction technologies in their design projects.	Apply
	Faculty Signature			

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			Course Outcomes	
	Faculty Name:		Vikas Kumar pandey	
	program Name		B.Arch	
	AY		2019-20	
	Semester		2nd	
Course Code	**Course Name**	**CO Number**	**CO Statement**	**Taxonomy**
			After completing the course, Students will be able to	
BR 132	**Architectural Structure-II**	**BR 132.1**	To describe the limit state approach for design.	Understand
		BR 132.2	To analyze the simple trusses.	Analyse
		BR 132.3	To analyze beams with any type of loading and to draw SFD and BMD	Analyse
		BR 132.4	Solve for bending stresses in cross-section of member	Apply
		BR 132.5	Draw grid for architectural plan and preliminary sizing of members.	Create
	Faculty Signature			

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School of Architecture

Course Outcomes

	Faculty Name:		Kanchan	
	Program Name		B.Arch.	
	AY		2019-20	
	Semester		2nd	
Course Code	**Course Name**	**CO Number**	**CO Statement**	**Taxonomy**
			After completing the course, Students will be able to	
BR 152	**Art and Graphics - II**	**BR 152.1**	understand about the analytical skills to develop design and its management.	Understand
		BR 152.2	understand about the depth knowledge of visualization and enhanced conception of ideas.	Understand
		BR 152.3	able to create shades and shadows, solar path and its relation to build masses.	Create
		BR 152.4	able to create various rendering mediums on different materials.	Create
		BR 152.5	understand about the analytical skills to develop design and its management.	Understand
	Faculty Signature			

ARCHITECTURE DESIGN-VI`
AD 312
Course outcome

S.No.	Outcome	Taxonomy
AD 312.1	**Value** various indigenous and latest building materials	**Value**
AD 312.2	**Demonstrates** architectural and structural vocabulary through verbal and written communication	**Demonstrates**
AD 312.3	**Develop** sensitivity towards building bye-laws.	**Develop**
AD 312.4	**Build** with precision block models**,** study models, site models	**Build**
AD 312.5	**Forms** correlation between design and other subjects studied in previous semesters and till present	**Forms**
AD 312.6	**Communicate** through drawings or models methods developed to meet various requirements	**Communicate**

Faculty

Ar. Ashwini Tiwari

MODY UNIVERSITY OF SCIENCE AND TECHNOLOGY
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School of Architecture

Course Outcomes

Faculty Name:	Kamlesh P
Program Name	B.Arch.
AY	2019-20
Semester	6TH

Course Code	Course Name	CO Number	CO Statement	Taxonomy
			After completing the course, Students will be able to	
AD 342	**Professional Practice-I (Professional Ethics)**	**AD 342.1**	Students will learn the responsibilities & liabilities of the Profession	Understand
		AD 342.2	understand the process of Contract and project management.	Understand
		AD 342.3	Idea of profession and essential difference among profession, trade and business.	Understand
		AD 342.4	Profession of architecture, its essential tenets, duties and liabilities.	Understand

Faculty Signature

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			Course Outcomes	
	Faculty Name:		Pallavi K	
	Program Name		B.Arch.	
	AY		2019-20	
	Semester		6TH	
Course Code	**Course Name**	**CO Number**	**CO Statement**	**Taxonomy**
			After completing the course, Students will be able to	
AD 352	**Town Planning & Building Bylaws**	**AD 352.1**	Students will have an introduction to the discipline of urban and regional planning.	Understand
		AD 352.2	Learn the Building bye-laws pertaining in various parts of the country.	Understand
		AD 352.3	Explore the discipline of Town Planning in ancient and modern context.	Understand
		AD 352.4	Evaluate the bye laws of different cities in India through presentations.	Analyze
		AD 352.5	make presentation sheets on theories of town planning.	Create
		AD 352.6	make conceptual models on prominent theories of town planning.	Create
		AD 352.7	make detailed model on the planning of Chandigarh city.	Create
	Faculty Signature			

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			Course Outcomes	
	Faculty Name:		Chavi Jain	
	Program Name		B.Arch.	
	AY		2019-20	
	Semester		6TH	
Course Code	**Course Name**	**CO Number**	**CO Statement**	**Taxonomy**
			After completing the course, Students will be able to	
AD 362	**Research Methodology – I**	**AD 362.1**	make students able to understand the importance of research in education.	Understand
		AD 362.2	student will be able to conduct the field surveys for various research projects.	Apply
		AD 362.3	able to prepare research papers, articles & seminars.	Apply
		AD 362.4	students will be highly benefitted in completing the thesis work in easy ways.	Analyze
	Faculty Signature			

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			Course Outcomes	
	Faculty Name:		Mahesh Kumar	
	program Name		B.Arch	
	AY		2019-20	
	Semester		X	
Course Code	**Course Name**	**CO Number**	**CO Statement**	**Taxonomy**
			After completing the course, Students will be able to	
AD 532	**Sustainable Passive Design**	**AD 532.1**	Analyse impacts of climate on architectural design and dealing with them.	Analyse
		AD 532.2	explain climatic perameters & the classification of climatic zones of india.	Understand
		AD 532.3	apply solar passive cooling & heating techniques.	Apply
		AD 532.4	make solutions for environmental impacts like global warming, heat iceland effect etc.	Create
		AD 532.5	Apply the concept of green buildings & certification criterias for LEED, GRIHA, IGBC.	Apply
		AD 532.6	design the climatic responsive buildings.	Create
	Faculty Signature			

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Course Outcomes

	Faculty Name:		Payal Gupta	
	program Name		B.Arch	
	AY		2019-20	
	Semester		10 th	
Course Code	**Course Name**	**CO Number**	**CO Statement**	**Taxonomy**
			After completing the course, Students will be able to	
AD 512	**Architectural Design Thesis**	**AD 512.1**	Designs a Thesis project responsive to the contextual and program requirements.	Create
		AD 512.2	Combines the systematic/methodological learning from various stages of study and analysis in design process towards culmination of an informed design.	Create
		AD 512.3	Communicates the ideas clearly using writing, verbal and visual presentation.	Remember
		AD 512.4	Demonstrates self-reliance when working independently	Apply
		AD 512.5	Integrates ideas with design requirements	Create
		AD 512.6	Compares data and information gathered from Pre-design research	Analyze
		AD 512.7	Evaluates data and information gathered from Pre-design research and summarizes the information to used for design	Evaluate
		AD 512.8	Applies various codes, standards and regulations governing the project.	Apply
		AD 512.9	Demonstrates synthesis of creativity and technical knowledge	Apply
		AD 512.10	Demonstrate the ability for decision making required to progress the understanding already developed.	Apply
		AD 512.11	Demonstrate the ideas clearly using detailed physical Model.	Apply
	Faculty Signature			

		School of Architecture		
			Course Outcomes	
	Faculty Name:		Ashwini Tiwari	
	program Name		B.Arch	
	AY		2019-20	
	Semester		10th	
Course Code	**Course Name**	**CO Number**	**CO Statement**	**Taxonomy**
			After completing the course, Students will be able to	
AD 572	**Disaster Management (Advance Elective II)**	**AD 572.1**	Knowledge of Natural and Manmade disasters.	Understand
		AD 572.2	Learn to manage Natural and Manmade disasters. from micro to macro level.	Apply
	Faculty Signature			

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School of Architecture

Course Outcomes

	Faculty Name:		Mahesh Kumar	
	program Name		B.Arch	
	AY		2020-21	
	Semester		I	
Course Code	**Course Name**	**CO Number**	**CO Statement**	**Taxonomy**
			After completing the course, Students will be able to	
AR 20.101	**Basic Design & workshop-I**	**AR 20.101.1**	To **recognize** and select drawing tools and techniques for drafting basic drawing	**Remember**
		AR 20.101.2	To apply the observation and logical skills to involve understanding of a space creation.	**Apply**
		AR 20.101.3	To **identify** a type of line, intensity, thickness, text to draw a shape.	**Remember**
		AR 20.101.4	To **implement** a scale, dimension for a layout of sheet or drawing	**Create**
		AR 20.101.5	To **demonstrate** a line, plane or solid into drawing using orthographic projections	**Apply**
		AR 20.101.6	To **construct** the drawings of complex compositions	**Create**
	Faculty Signature			

		School of Architecture		
			Course Outcomes	
	Faculty Name:		Mahesh Kumar	
	program Name		B.Arch	
	AY		2020-21	
	Semester		I	
Course Code	**Course Name**	**CO Number**	**CO Statement**	**Taxonomy**
			After completing the course, Students will be able to	
AR 20.113	**Environmental Studies**	**AR 20.113.1**	students will aware about the scientific knowledge and current debates on the environment at three nested scales, including their interlink ages – Global, Regional and Local.	Understand
		AR 20.113.2	students will understand cause-and-effect relationships between various human, natural and climatic factors that impinges upon ecological systems and their linkages.	Evaluate
		AR 20.113.3	Students will be sensitive with global & national environmental issues, the scale of impacts, important conventions, laws and policies in the field of biodiversity, and environmental protection.	Remember
		AR 20.113.4	Students will understand about global warming effects.	Understand
		AR 20.113.5	Students will be able to analyze various climatic zones of india.	Analyze
		AR 20.113.6	Students will include environmental and ecological concerns in their designs.	Apply
	Faculty Signature			

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Course Outcomes

Faculty Name:	Anjali Gupta / Barsha Kunda
Program Name	B.Arch.
AY	2020-21
Semester	1st.

Course Code	Course Name	CO Number	CO Statement	Taxonomy
			After completing the course, Students will be able to	
AR 20.111	**Basic Design and Visual Art - I**	**AR 20.111.1**	Emphasis on analytical skill to develop design and its management.	Remember
		AR 20.111.2	Gain depth knowledge of visualization and enhance conception of ideas.	Understand
		AR 20.111.3	Learn about observation and logical skills to involve understanding of a space creation.	Understand
		AR 20.111.4	Learn desired written and presentations skills to express their designs.	Remember
		AR 20.111.5	Visualize the idea and concept with expression of thoughts via appropriate communication method.	Understand
		AR 20.111.6	Able to design minor architectural projects as mentioned above.	Remember

Faculty Signature

		School of Architecture		
			Course Outcomes	
	Faculty Name:		Vikas Kumar pandey	
	program Name		B.Arch	
	AY		2020-21	
	Semester		1st	
Course Code	**Course Name**	**CO Number**	**CO Statement**	**Taxonomy**
			After completing the course, Students will be able to	
AR 20.103	**Building material & construction Technology - I**	**AR 20.103.1**	To define basic building elements	Remember
		AR 20.103.2	To explain the types and necessity of stone masonry	Understand
		AR 20.103.3	To define mud as a building material & types of mud construction technology.	Remember
		AR 20.103.4	To be able to make construction details of stone, timber & bamboo construction.	create
		AR 20.103.5	To be aware of the properties and applications of Timber, bamboo & lime as a building material.	evaluate
		AR 20.103.6	To apply construction techniques in design projects.	apply
	Faculty Signature			

		School of Architecture		
			Course Outcomes	
	Faculty Name:		Vikas Kumar pandey	
	program Name		B.Arch	
	AY		2020-21	
	Semester		1st	
Course Code	**Course Name**	**CO Number**	**CO Statement**	**Taxonomy**
			After completing the course, Students will be able to	
AR 20.105	**Structural Design System- I**	**AR 20.105.1**	To describe mechanical properties of materials.	Understand
		AR 20.105.2	To Draw stress strain curves for structural materials.	Apply
		AR 20.105.3	To analyze simply supported and cantilever structural elements	Evaluate
		AR 20.105.4	Describe the various structural elements and there function.	Understand
		AR 20.105.5	Explain the loads acting on structures.	Understand
	Faculty Signature			

		School of Architecture		
			Course Outcomes	
	Faculty Name:		Anjali Gupta / Barsha Kunda	
	Program Name		B.Arch.	
	AY		2020-21	
	Semester		1st.	
Course Code	**Course Name**	**CO Number**	**CO Statement**	**Taxonomy**
			After completing the course, Students will be able to	
AR 20.107	**Architectural Graphic Skills Manual - I**	**AR 20.107.1**	Learn about observation and logical skills to involve understanding of a space creation.	Understand
		AR 20.107.2	Learn desired written and presentations skills to express their designs.	Understand
		AR 20.107.3	Able to visualize the idea and concept with expression of thoughts via appropriate communication method.	Analyze
		AR 20.107.4	Able to learn all aspects of visually interactive design.	Understand
		AR 20.107.5	Able to express all drawing contents through all taught mediums of communication.	Apply
	Faculty Signature			

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School of Architecture

Course Outcomes

Faculty Name:	Lokenath Saha / Barsha Kunda
Program Name	B.Arch.
AY	2020-21
Semester	1st.

Course Code	Course Name	CO Number	CO Statement	Taxonomy
			After completing the course, Students will be able to	
AR 20.109	History of Architecture, Art and Culture I	AR 20.109.1	Learn the development and architecture of ancient civilizations.	Understand
		AR 20.109.2	Learn the various architectural form and character in the historical period.	Understand
		AR 20.109.3	Evaluate and analyze various civilizations.	Analyze
		AR 20.109.4	Make sheets with free hand sketching on all the civilizations.	Create
		AR 20.109.5	Exposure to the various architectural styles through presentations.	Understand
		AR 20.109.6	Make sketchbook and models on the architectural styles with respect to the timeline.	Create

Faculty Signature

		School of Architecture		
			Course Outcomes	
	Faculty Name:		Mahesh Kumar	
	program Name		B.Arch	
	AY		2020-21	
	Semester		III	
Course Code	**Course Name**	**CO Number**	**CO Statement**	**Taxonomy**
			After completing the course, Students will be able to	
AR 20.207	**Architectural Graphic Skills (Computer aided) - I**	**AR 20.207.1**	**Develop** understanding of computer aided drafting	Understand
		AR 20.207.2	**Comprehends** computer aided drafting and its parameter as tools and its application in architecture	Apply
		AR 20.207.3	**Demonstrate** the concepts of CAD drafting methods and techniques in 2D and 3D through various architectural projects of progressive complexity	Create
		AR 20.207.4	**Evaluates** CAD techniques for quicker methods and presentation skills	Understand
		AR 20.207.5	**Develop** understanding of computer aided drafting	Understand
		AR 20.207.6	**Comprehends** computer aided drafting and its parameter as tools and its application in architecture	Apply
	Faculty Signature			

		School of Architecture		
			Course Outcomes	
	Faculty Name:		Mahesh Kumar	
	program Name		B.Arch	
	AY		2020-21	
	Semester		III	
Course Code	**Course Name**	**CO Number**	**CO Statement**	**Taxonomy**
			After completing the course, Students will be able to	
AR 20.213	**Architectural workshop– II**	**AR 20.213.1**	Knowledge about analysis of existing piece of furniture in its functional & technical aspects	Understand
		AR 20.213.2	To learn Materials used for furniture design and their properties.	Learn
	Faculty Signature			

		School of Architecture		
			Course Outcomes	
	Faculty Name:		Mahesh Kumar	
	program Name		B.Arch	
	AY		2020-21	
	Semester		III	
Course Code	**Course Name**	**CO Number**	**CO Statement**	**Taxonomy**
			After completing the course, Students will be able to	
AR 20.215	**Architecture Climatology**	**AR 20.215.1**	Students will be able to classify the factors of comfort.	Understand
		AR 20.215.2	Students will infer the impact of climatic forces on built structures	Understand
		AR 20.215.3	Students will examine through mathematical formulae the thermal comfort levels of built form	Analyze
		AR 20.215.4	Students will assess the effects of site, sun and wind in building response	Analyze
		AR 20.215.5	Students will Identify the unique design requirements according to climate	Analyze
		AR 20.215.6	Students will learn the impacts of climate on architectural design and dealing with them	Remember
	Faculty Signature			

ARCHITECTURE DESIGN-III`
AR 20.201
Course outcome

S.No.	Outcome	Taxonomy
AR 20.201.1	To apply the learning of the previous semesters	Apply
AR 20.201.2	To develop sensitivity towards existing informal settings and elements of built space.	Develop
AR 20.201.3	To map gathered information of visited physical setting	Map
AR 20.201.4	To critique the materials, construction techniques and structural systems used in the elements of built forms.	Critique
AR 20.201.5	To compose the architectural spaces in a design project	Compose
AR 20.201.6	To apply climate responsive techniques to simple single storied load bearing structures.	Apply

Faculty

Ar. Ashwini Tiwari

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Course Outcomes

Faculty Name:	Anjali
Program Name	B.Arch.
AY	2020-21
Semester	3rd

Course Code	Course Name	CO Number	CO Statement	Taxonomy
			After completing the course, Students will be able to	
AR 20.203	**Building Material & Construction Technology - III**	**AR 20.203.1**	learn about construction procedures and reinforcement detailing about RCC elements like Columns, Beams and Slabs.	Understand
		AR 20.203.2	learn about joining details of columns, beams and slabs	Remember
		AR 20.203.3	able to draw details of timber single and double roofs and timber floors.	Create
		AR 20.203.4	able to analyze wooden joints & heir uses in wooden openings.	Analyze
		AR 20.203.5	learn about glass & floor finishes used in building materials.	Remember
		AR 20.203.6	create drawings and designs based on the acquired knowledge.	Create

Faculty Signature

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Course Outcomes

Faculty Name:	Lokenath Saha
Program Name	B.Arch.
AY	2020-21
Semester	3rd

Course Code	Course Name	CO Number	CO Statement	Taxonomy
			After completing the course, Students will be able to	
AR 20.211	**Building Services– I (Water supply and Sanitation)**	**AR 20.211.1**	the active and passive components of plumbing.	Understand
		AR 20.211.2	Value the importance of building services.	Understand
		AR 20.211.3	Develop understanding of water supply system at city levels	Understand
		AR 20.211.4	Design water supply in residential and other small buildings	Evaluate
		AR 20.211.5	Design rain and waste water system in domestic building	Apply
		AR 20.211.6	Design of water-sewer system in buildings (except hydraulics design calculation parts)	Apply

Faculty Signature

History of Architecture, Art & Culture -III`
AR 20.209
Course outcome

S.No.	Outcome	Taxonomy
AR 20.209.1	Acquire the development and architecture during the medieval period.	Understand
AR 20.209.2	Acquire the various architectural form and character in the western world.	Understand
AR 20.209.3	Evaluate and analyze various architectural styles.	Analyze
AR 20.209.4	Make sheets with free hand sketching on all the architectural styles.	Create
AR 20.209.5	Exposure to the various architectural styles through presentations.	Understand
AR 20.209.6	Make sketchbook and models on the architectural styles with respect to the timeline.	Create

Faculty

Ar. Ashwini Tiwari

History of Architecture, Art & Culture -III`
AR 20.209
Course outcome

S.No.	Outcome	Taxonomy
AR 20.209.1	Acquire the development and architecture during the medieval period.	Understand
AR 20.209.2	Acquire the various architectural form and character in the western world.	Understand
AR 20.209.3	Evaluate and analyze various architectural styles.	Analyze
AR 20.209.4	Make sheets with free hand sketching on all the architectural styles.	Create
AR 20.209.5	Exposure to the various architectural styles through presentations.	Understand
AR 20.209.6	Make sketchbook and models on the architectural styles with respect to the timeline.	Create

Faculty

Ar. Ashwini Tiwari

ARCHITECTURE DESIGN-III`
AR 20.201
Course outcome

S.No.	Outcome	Taxonomy
AR 20.201.1	To apply the learning of the previous semesters	Apply
AR 20.201.2	To develop sensitivity towards existing informal settings and elements of built space.	Develop
AR 20.201.3	To map gathered information of visited physical setting	Map
AR 20.201.4	To critique the materials, construction techniques and structural systems used in the elements of built forms.	Critique
AR 20.201.5	To compose the architectural spaces in a design project	Compose
AR 20.201.6	To apply climate responsive techniques to simple single storied load bearing structures.	Apply

Faculty

Ar. Ashwini Tiwari

		School of Architecture		
			Course Outcomes	
	Faculty Name:		Payal Gupta	
	program Name		B.Arch	
	AY		2020-21	
	Semester		7th	
Course Code	**Course Name**	**CO Number**	**CO Statement**	**Taxonomy**
			After completing the course, Students will be able to	
AD 451	**Dissertation**	**AD 451.1**	Identify research papers published in Journals for a study	Remember
		AD 451.2	Organize a study based on literature survey	Apply
		AD 451.3	Identify research methods for study	Apply
		AD 451.4	Identify area of research for thesis	Remember
		AD 451.5	Apply research methods in case study	Apply
		AD 451.6	Present paper in a seminar	Remember
		AD 451.7	Practice Citation	Understand
		AD 451.8	Develop ethics of publication	Understand
		AD 451.9	Identify research papers published in Journals for a study	Remember
	Faculty Signature			

		School of Planning,Architecture & Interior Design		
			Course Outcomes	
	Faculty Name:		Mahesh Kumar	
	program Name		B.Arch	
	AY		2020-21	
	Semester		VII	
Course Code	**Course Name**	**CO Number**	**CO Statement**	**Taxonomy**
			After completing the course, Students will be able to	
AD 421	**Advance Building Construction-I**	**AD 421.1**	work on complex aspects of construction.	Create
		AD 421.2	apply systems & techniques of construction systems for large spans.	Apply
		AD 421.3	design with plastic, PVC, water proofing materials etc.	Create
		AD 421.4	apply special concreting methods.	Apply
		AD 421.5	design temporary structures.	create
		AD 421.6	apply alternate construction techniques in their design projects.	apply
	Faculty Signature			

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Course Outcomes

Faculty Name:	Payal Gupta
program Name	B.Arch
AY	2020-21
Semester	7th

Course Code	Course Name	CO Number	CO Statement	Taxonomy
			After completing the course, Students will be able to	
AD 451	Dissertation	AD 451.1	Identify research papers published in Journals for a study	Remember
		AD 451.2	Organize a study based on literature survey	Apply
		AD 451.3	Identify research methods for study	Apply
		AD 451.4	Identify area of research for thesis	Remember
		AD 451.5	Apply research methods in case study	Apply
		AD 451.6	Present paper in a seminar	Remember
		AD 451.7	Practice Citation	Understand
		AD 451.8	Develop ethics of publication	Understand
		AD 451.9	Identify research papers published in Journals for a study	Remember

Faculty Signature

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Course Outcomes

Faculty Name:	Ashwini Tiwari
Program Name	B.Arch.
AY	2020-21
Semester	9th

Course Code	Course Name	CO Number	CO Statement	Taxonomy
			After completing the course, Students will be able to	
AD 521	**Professional Practice-III (Legal implications & business management)**	**AD 521.1**	Students will understand complex technicality of the profession	Understand
		AD 521.2	Apply out sourcing in Architectural profession.	Apply
		AD 521.3	Compare special laws rules and regulations related to profession	Apply
		AD 521.4	Recognize legal aspects of execution process	Understand

Faculty Signature

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School of Engineering and Technology (SET)
Lakshmangarh (Sikar), Rajasthan 332 311, India
Ph. No.: (1573) 225001-12 • Fax: (01573) 225042
email: dean.set@modyuniversity.ac.in • www.modyuniversity.ac.in

Course Outcome

Course Name: Java Programming
Course Code: CS 14.202
Credit Hours: 3
Semester, Year: Autumn, III
Branch: EC
Prerequisite: Preferably any programming language, not mandatory

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
CS 14.202.1	Understand the concepts of OOP as well as the purpose and usage principles of inheritance, polymorphism, encapsulation and method overloading	Understand
CS 14.202.2	Know the operators, control structures and other basic syntaxes	Remember
CS 14.202.3	Identify classes, objects, members of a class and the relationships among them needed for a specific problem.	Understand
CS 14.202.4	Understand Inheritance, polymorphism etc	Understand
CS 14.202.5	Develop programs using the in-built Java API and the Java standard class library.	Apply
CS 14.202.6	Create Java application programs using sound OOP practices(e.g.,interfaces and APIs)and proper program structuring (e.g., by using access control identifies, automatic documentation through comments, error exception handling).	Apply

Faculty Name: Dr. Suneet Gupta

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Course Outcome

Course Name: Java Programming Laboratory
Course Code: CS 14.222
Credit Hours: 1
Semester, Year: Autumn, III
Branch: EC
Prerequisite: Preferably any programming language, not mandatory

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
CS 14.222.1	Handle the operators, control structures, data types and other basic syntaxes	Remember
CS 14.222.2	Identify classes, objects, members of a class, overloading and the relationships among them needed for a specific problem	Understand
CS 14.222.3	Understand the concepts of Interfaces, command line arguments and Strings	Understand
CS 14.222.4	Apply the concepts of OOP as well as the purpose and usage principles of encapsulation, inheritance, polymorphism	Apply
CS 14.222.5	Create Java application programs using sound OOP practices (e.g. Interfaces and APIs) and proper program structuring (e.g., by using access control identifies, automatic documentation through comments, error exception handling).	Analyze
CS 14.222.6	To create threads, use I/O and applets	Create

Faculty Name: Dr. Suneet Gupta

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Course Outcome

Course Name: Electronics Devices and Circuits Laboratory
Course Code: EC 14.211
Credit Hours: 2
Semester, Year: Autumn, Second
Branch: ECE
Prerequisite: Electronic Workshop

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
EC 14.221.1	Understand the various Electronic devices and circuits by doing the experiments	Understand
EC 14.221.2	Demonstrate the working phenomena and applications of various electronic devices and circuits.	Understand
EC 14.221.3	Knowledge gained from this course would also be utilized to design different electronic circuits and devices.	Create
EC 14.221.4	Evaluate the performance of different transistors	Evaluate

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Dr. Purnima Sharma

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Course Outcome

Course Name: Digital Electronics Laboratory
Course Code: EC 14.223
Credit Hours: 2
Semester, Year: Autumn, 2nd
Branch: ECE & BME
Prerequisite: Electronics Devices and Circuits

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
EC 14.223.1	Develop skills for implementing and analyzing digital electronic circuits, with applications to electronics design.	Create
EC 14.223.2	Gain practical knowledge by applying the experimental methods to correlate with the theory of Electronics Engineering.	Evaluate
EC 14.223.3	Apply the analytical techniques and graphical analysis to the experimental data.	Apply
EC 14.223.4	Acquire fundamental knowledge of operation, design and application of various analog circuits by doing the experiments.	Understand

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Course Outcome

Course Name: Signal Processing and Applications
Course Code: EC 14.301
Credit Hours: 04
Semester, Year: Autumn, 2019
Branch: ECE
Prerequisite:

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
EC14.301.1	Interpret, represent and process discrete/digital signals	Understand
EC14.301.2	Understand frequency domain analysis of discrete time signals	Understand
EC14.301.3	Interpret, represent and process discrete/digital systems	Understand
EC14.301.4	Understand frequency domain analysis of discrete time signals	Understand
EC14.301.5	Design & analyze digital FIR and IIR Filter	Create
EC14.301.6	Understand the application of signal processing	Understand

Faculty Name

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Course Outcome

Course Name: Digital Signal Processing Lab
Course Code: EC14321
Credit Hours: 01
Semester, Year: Autumn, 2019-20
Branch: ECE
Prerequisite:

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
EC14321.1	Understand the handling of discrete/digital signals using MATLAB	Understand
EC14321.2	Understand the basic operations of Signal processing	Understand
EC14321.3	Design IIR, and FIR filters for band pass, band stop, low pass and high pass filters.	Create
EC14321.4	Design the signal processing algorithm using MATLAB	Create

Faculty Name

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Course Outcome

Course Name: VLSI Design
Course Code: EC 14.401
Credit Hours: 4
Semester, Year: Autumn 2019-20
Branch: ECE
Prerequisite: Electronics Devices and Circuits, Digital Electronics.

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
Course code.1	To apply knowledge of mathematics, basic science, and engineering to solve problems encompassing fundamental areas of VLSI design.	Apply
Course code.2	To apply in-depth knowledge of VLSI design principles, systems, and devices to the solution of real time problems.	Apply
Course code.3	To design and evaluate a component or system to meet desired needs within the field of VLSI design.	Create
Course code.4	To design CMOS/Logic design circuits based on lambda design rules to meet desired specifications required	Create
Course code.5	To understand MOS transistors theory and apply it to analyze MOS Inverter design issues	Analyze
Course code.6	To evaluate the performance of CMOS inverter switching circuits and power-delay constraints using different techniques	Evaluate

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Dr. Gaurav Dhiman

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Course Outcome

Course Name: Antenna and Wave Propagation
Course Code: EC-14.403
Credit Hours: 3
Semester, Year: Autumn, 2019-20
Branch: IV
Prerequisite: Principles of Electromagnetics

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
EC14.403.1	Determine the appropriate portion of electromagnetic theory and its application to antennas.	Apply
EC14.403.2	Differentiate the receiving antennas from transmitting antennas, analyze and justify their characteristics.	Understand
EC14.403.3	Assess the need for antenna arrays and mathematically analyze the types of antenna arrays.	Analyze
EC14.403.4	Distinguish primary from secondary antennas and evaluate their characteristics by applying optics and acoustics principles.	Evaluate
EC14.403.5	Design antenna for aeronautical applications	Create
EC14.403.6	Define different modes of operation	Remember

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Dr. Purnima Sharma

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Course Outcome

Course Name: Antenna and Wave Propagation
Course Code: EC-14.403
Credit Hours: 3
Semester, Year: Autumn, 2019-20
Branch: IV
Prerequisite: Principles of Electromagnetics

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
EC14.403.1	Determine the appropriate portion of electromagnetic theory and its application to antennas.	Apply
EC14.403.2	Differentiate the receiving antennas from transmitting antennas, analyze and justify their characteristics.	Understand
EC14.403.3	Assess the need for antenna arrays and mathematically analyze the types of antenna arrays.	Analyze
EC14.403.4	Distinguish primary from secondary antennas and evaluate their characteristics by applying optics and acoustics principles.	Evaluate
EC14.403.5	Design antenna for aeronautical applications	Create
EC14.403.6	Define different modes of operation	Remember

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Course Outcome

Course Name: **Advanced Embedded System**
Course Code: **EC15.413**
Semester, Year: **Autumn, IV**
Branch: **ECE**
Prerequisite: **Microcontroller and Embedded Systems**

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
EC 15.413.1	Understand the Embedded System & Design Concepts and overviews of 8-bits/16-bits/32-bits microcontrollers and 8051 microcontroller	Remember
EC 15.413.2	Analysing the Addressing modes of 8051, instruction set of 8051, and stack structure of 8085.	Analyse
EC 15.413.3	Programming of assembly language programming of 8051. Generation of delays and subroutines, Programming of 8051 interrupts, timer/counter and serial port.	Create
EC 15.413.4	Analyse different types of memory and interfacing of memory with 8051 Microcontroller	Analyse
EC 15.413.5	Interfacing of 8051 with sensors, Keyboard, ADC, DAC, LCD, Stepper Motor and D.C motor interfacing, real world interfacing & applications.	Apply
EC 15.413.6	Understand the Embedded software Architecture & Development and the Networks for Embedded system	Understand

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Course Outcomes

EC.18.442 Engineering Economics

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
EC.18.442.1	Explain the relevance of economics in Engineering	Understand
EC.18.442.2	Describe the basic Principles of Engineering Economics	Understand
EC.18.442.3	Evaluate the basic concepts, terminology, methodology and theory used by economists to describe the workings of market based economies,	Evaluate
EC.18.442.4	Analyze both product and resource markets and how they operate	Analyze
EC.18.442.5	Apply the economic concepts in the real world situations by individual economic agents like individuals, firms, or industries.	Apply
EC.18.442.6	Apply the finance and economic concepts for resource optimization and profit maximization	Apply

Dr. Surendra Rajpurohit

S. Singh

10/01/2020

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Course Outcome

Course Name: Electronic Devices and Circuits
Course Code: EC 14.201
Credit Hours: 3
Semester, Year: Autumn, II Year
Branch: ECE
Prerequisite: Basic Electronics and Physics of Electron

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
EC 14.201.1	Know about the multistage amplifier using BJT and FET in various configuration.	Remember
EC 14.201.2	Understand the basic concepts of BJT, FET and MOSFETs.	Understand
EC 14.201.3	Apply the basic electronics engineering knowledge to solve the circuit problems.	Apply
EC 14.201.4	Analyze various amplifiers on the basis of their performance.	Analyze
EC 14.201.5	Evaluate the performance amplifiers and oscillators.	Evaluate
EC 14.201.6	Design mini projects using BJT, FET and MOSFET.	Create

Suneetha
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Dr. Suneetha Rikhari

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Course Outcome

Course Name: Principles of Analog Communication
Course Code: EC 14.303
Credit Hours: 3
Semester, Year: Autumn, III
Branch: ECE
Prerequisite: Analog & Digital Electronics

Module wise Course Outcome (CO)

Module	Course Outcome Number	Course Outcome	Bloom Taxonomy
		At the end of the course, Student will be able to:	
Unit 1	EC 14.303.1	Understand signals and basic modulation process	Understand
Unit 2	EC 14.303.2	Understand different amplitude modulation schemes	Understand
Unit2	EC 14.303.3	Calculate power in AM	Apply
Unit 3	EC 14.303.4	Understand frequency modulation	Understand
Unit 4	EC 14.303.5	Understand Performance of AM/FM system under noise	Understand, Apply
Unit 5	EC 14.303.6	Understand Multiple Access Schemes	Understand
Unit 6	EC 14.303.7	Understand sampling, PAM, PWM, PPM	Understand, Analyze

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Course Outcome

Course Name: Microcontroller and Embedded Systems Laboratory
Course Code: EC 14.326
Credit Hours: 1
Semester, Year: Spring, III
Branch: ECE
Prerequisite: Microprocessor Programming and Interfacing (EC 14.202)

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
EC 14.326.1	Understand and 8051 Microcontroller	Understand
EC 14.326.2	Write an ALP for data movement between memory and registers	Apply
EC 14.326.3	Write an ALP for finding largest/smallest numbers	Apply
EC 14.326.4	Write an ALP for Port Programming	Apply
EC 14.326.5	Write an ALP for Temperature control	Apply
EC 14.326.6	Write an ALP for a traffic light algorithm.	Apply

Dr. Gaurav Dhiman

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Course Outcome

Course Name: Principles and Practices of Management
Course Code: EC-14.441
Credit Hours: 2
Semester, Year: Autumn Semester, 2019-20
Branch: B. Tech in Electronics and Communication Engineering, IV Year
Prerequisite: None

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
EC-14.441.1	Contrast the personality attributes of employees in an organisation	Remember
EC-14.441.2	Explain the intricacies of management functions and theories	Understand
EC-14.441.3	Examine the management trends and processes in the selected industry	Apply
EC-14.441.4	Analyse the motivational theories and relate them with the behaviour of employees in organisations	Analyse
EC-14.441.5	Assess the steps of an effective staffing system	Evaluate
EC-14.441.6	Generate business ideas through group decision-making techniques in real-life situations	Create

9/8/19
Faculty Name: Dr. Ashish Kumar Sharma

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Course Outcome

Course Name: Network Analysis and Synthesis
Course Code: EE 14.201
Credit Hours: 4
Semester, Year: Autumn 2019-20, II Year
Branch: EE
Prerequisite: Basics of Electrical Engineering

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
EE 14.201.1	Gain fundamental knowledge of the basic electrical elements such as resistance, capacitors and inductances.	Remember
EE 14.201.2	Understand circuit representation as graphs and implementation of KVL and KCL in the circuits and to solve the circuit problems by Laplace transformation method and also by applying various networks theorems.	Understand
EE 14.201.3	Apply Thevenin and Norton theorems and concept of linearity and superposition to analyze and design circuits and networks.	Apply
EE 14.201.4	Analyze small RLC circuits by hand. Use network techniques, like node analysis and loop analysis, to write equations for large linear circuits.	Analyze
EE 14.201.5	Evaluate Hurwitz polynomials, positive real functions, LC immittance function, synthesis of LC driving point immittance, RC driving point impedances, RL admittances, synthesis of RLC functions.	Evaluate
EE 14.201.6	Implement mini projects based on concepts of analog communication.	Create

Faculty Name: Dr. Jeetu Sharma

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Course Outcome

Course Name: Control System Engineering
Course Code: EE 14.303
Credit Hours: 4
Semester, Year: Autumn, IV (2019)
Branch: Electronics and Communication Engineering
Prerequisite: Network Analysis and Synthesis (EE 14.201)

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
EE 14.303.1	Student will able to identify open loop and closed loop control system.	Understand
EE 14.303.2	Student will able to formulate mathematical model for physical systems (analogous system).	Create
EE 14.303.3	Students will be able to simplify representation of complex systems using reduction techniques.	Create
EE 14.303.4	Student will able to Analyze and use standard test signals to identify performance characteristics of first and second order systems.	Analyze
EE 14.303.5	Student will able to apply Routh-Hurwitz and plotting techniques like root locus, polar plot, niquist plot, bode plot and Nichols chart for stability analysis.	Apply
EE 14.303.6	Student will able to analyze and design the system in state space representation.	Analyze

Dr. Sunita Kumari
09.08.2019.

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Course Outcome

Course Name: Interpersonal Communication

Course Code: GE 301/303

Credit Hours: 1

Semester, Year: Autumn, III

Branch: ECE

Prerequisite: Basic General English

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
GE 301/303.1	Make an efficient Group Discussion in peer groups	Apply
GE 301/303.2	Learn Interview Skills	Remember
GE 301/303.3	Understand English Grammar and Sentence structures	Understand
GE 301/303.4	Attain Fluency in English Language	Create

Faculty Name: Dr A S Rao 9.8.19

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Course Outcome

Course Name: Integrated Circuit and Applications
Course Code: EC14.204
Credit Hours: 1.5 Hrs
Semester, Year: Spring, II Year
Branch: ECE
Prerequisite: Electronics Device and Circuits

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
EC14.204.1	Understand the basic concepts of differential and operational amplifier and its various applications.	Understand
EC14.204.2	Develop skills to design simple circuits using OP-AMP	Create
EC14.204.3	Understand the basic concepts of oscillator and its various applications	Understand
EC14.204.4	Develop skills to design analog filter circuits and various amplifiers and can solve problems related to it	Create
EC14.204.5	Learn about the basic concepts for the circuit configuration for the design of linear integrated circuits and develops skill to solve engineering problems	Apply
EC14.204.6	Gain knowledge about various multiplier circuits, PLL, Voltage regulator	Evaluate

Faculty Name

Dr Satyajit Anand 10/01/20

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Course Outcome

Course Name: Principle of Electromagnetics
Course Code: EC 14.208
Credit Hours: 03
Semester, Year: Spring, 2019-20
Branch: ECE
Prerequisite: Basic understanding of law of Physics and Mathematics

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
EC 14.208.1	Understand electric and magnetic fields and apply the principles of Gauss's law to electric fields in various coordinate systems	Understand
EC 14.208.2	Understand the depth of static and time-varying electromagnetic field as governed by Maxwell's equations	Analyze
EC 14.208.3	Formulate and analyse problems involving lossy media with planar boundaries using uniform plane waves	Create
EC 14.208.4	Apply concepts of two wire transmission line in Antenna Engineering and its applications	Apply
EC 14.208.5	Gain insight about waveguide and its applications.	Understand

Faculty Name

Dr. Satyajit Anand S. Anand 10/01/20

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Course Outcomes

Course Name: Microprocessor Programming and Interfacing Laboratory
Course Code: EC 14.222
Semester, Year: Spring, II
Branch: ECE
Prerequisite: Microprocessor Programming and Interfacing

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
EC 14.222.1	Write a program for 8085 microprocessor to add two 8 bit numbers.	Apply
EC 14.222.2	Write a program for 8085 microprocessor to add three 8 bit numbers and Store the 16-bit result.	Apply
EC 14.222.3	Write a program for 8085 microprocessor for finding largest number from four numbers	Apply
EC 14.222.4	Write an assembly language program for 8086 to find out the square of a number using Look –Up table.	Apply
EC 14.222.5	Write an assembly language program for 8086 to find out the larger number.	Apply
EC 14.222.6	Assembly language program for 8086 to implement Traffic Light Control Logic using IC 8255	Analyze, Apply

10/1/20

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Course Outcomes

Course Name: Integrated Circuits and Applications Laboratory
Course Code: EC 14.224
Credit Hours: 1
Semester, Year: Spring, II
Branch: ECE
Prerequisite: Integrated Circuits and Applications

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
EC 14.224.1	To calculate CMRR and Slew rate.	Understand
EC 14.224.2	Understand Summing Amplifier, difference Amplifier and Algebraic Amplifier.	Analyze, Apply
EC 14.224.3	Design of Differentiator and Integrator	Apply
EC 14.224.4	Design of Low Pass Filter and High Pass Filter	Apply
EC 14.224.5	Monostable and Astable Multivibrators using 555 Timer	Understand, Apply
EC 14.224.6	Wein Bridge Oscillator	Understand, Apply

Dr. Satyajit Anand S. Anand 10/01/20

Course Outcome

Course Name: Principles of Digital Communication
Course Code: EC-14.304
Credit Hours: 4
Semester, Year: VI, III
Branch: ECE
Prerequisite: The basics of Communication Systems and Techniques, Principles of Analog Communication (EC-14.303)

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
EC 14.304.1	Remember and understand model of communication systems, information theory and coding, and various digital as well as analog communication techniques.	Understand
EC 14.304.2	Apply the concepts of information theory and coding as well as numerical formulations of various analog and digital communication techniques in conjunction with probability theory, random process and random variables.	Apply
EC 14.304.3	Analyze and remember different analog and digital modulation and demodulation techniques.	Remember
EC 14.304.4	Analyze probability theory, random process and random variables.	Analyze
EC 14.304.5	Evaluate distinct digital communication techniques, digital over analog communication, various information and coding techniques as well as various digital modulation techniques.	Evaluate
EC 14.304.6	Create novel projects based on analog and digital modulation techniques and solving the novel numerical problems by applying concepts.	Create

Dr. Jeetu Sharma

10/01/20

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Course Outcome

Course Name: **Microcontroller and Embedded Systems**
Course Code: EC 14.306
Credit Hours: 3
Semester, Year: Spring, III
Branch: Electronic & Communication Engineering
Prerequisite: Microprocessor Programming and Interfacing (EC 14.202)

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
EC 14.306.1	Understand the 8051 Microcontroller's Architecture, Pin configuration.	Understand
EC 14.306.2	Analyze the Stack structure of 8085 and analyse different types of memory and interfacing of memory with 8051Microcontroller and Addressing modes and instruction set of 8051	Analyse
EC 14.306.3	Programming of assembly language programming of 8051. Generation of delays and subroutines.	Create
EC 14.306.4	Programming of 8051 interrupts, timer/counter and serial port.	Apply
EC 14.306.5	Interfacing of 8051 with sensors, Keyboard, ADC, DAC, LCD, Stepper Motor and D.C motor.	Create
EC 14.306.6	Understand the Embedded systems and processors and Challenges and issues in embedded software development and Real Time Operating Systems	Understand

10/1/20

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Course Outcome

Course Name: Advanced radio access network
Course Code: EC 15.312
Credit Hours: 40
Semester, Year: Spring, Third
Branch: ECE
Prerequisite: Digital Communication

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
EC 15.311.1	Explain the basic hardware and software network components.	Understand
EC 15.311.2	Describe different concepts of microwave and antenna theory	Remember
EC 15.311.3	Design drive test to improve network performance	Create
EC 15.311.4	Use the concept of optimization.	Apply
EC 15.311.5	Classify various types of key performance indicators	Analyze
EC 15.311.6	Gain knowledge of different types of mobile technologies	Evaluate

Purnima 10/11/20

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Course Outcome

Course Name: Wireless Networks
Course Code: EC-18.402
Credit Hours: 40
Semester, Year: Spring, 2019
Branch: ECE
Prerequisite: Principles of Analog Communication

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
EC14.402.1	Apply wireless communication concepts and ideas to engineering applications	Apply
EC14.402.2	Develop high performance wireless communication network	Create
EC14.402.3	Explain different types of wireless communication systems	Understand
EC14.402.4	Evaluate performance of different coding techniques	Evaluate
EC14.402.5	Describe different forms of diversity techniques	Remember
EC14.402.6	Categorize wireless networking techniques	Analyze

Purnima 10/1/20
Dr. Purnima Sharma

SCHOOL OF ENGINEERING

Course Outcomes

EC.18.442 Engineering Economics

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
EC.18.442.1	Explain the relevance of economics in Engineering	Understand
EC.18.442.2	Describe the basic Principles of Engineering Economics	Understand
EC.18.442.3	Evaluate the basic concepts, terminology, methodology and theory used by economists to describe the workings of market based economies,	Evaluate
EC.18.442.4	Analyze both product and resource markets and how they operate	Analyze
EC.18.442.5	Apply the economic concepts in the real world situations by individual economic agents like individuals, firms, or industries.	Apply
EC.18.442.6	Apply the finance and economic concepts for resource optimization and profit maximization	Apply

Dr. Surendra Rajpurohit

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Course Outcome

Course Name: Consumer Electronics
Course Code: EC 14.206
Credit Hours: 52
Semester, Year: Spring, 2019-20
Branch: ECE
Prerequisite: Basic understanding of electric circuits and components and some knowledge of basic electronic devices such as diodes, transistors etc.

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
EC 14.206.1	Describe different types of microphones, audio systems and colour TV receiver.	Remember
EC 14.206.2	Maintain various electronic home and office appliances.	Apply
EC 14.206.3	Explain different types of ICs	Understand
EC 14.206.4	Design IC based circuits	Create
EC 14.206.5	Illustrate the working of home appliances	Analyze
EC 14.206.6	Measure characteristics of audio devices	Evaluate

Purnima 10/11/20

Dr. Purnima Sharma

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Course Outcome

Course Name: Microcontroller and Embedded Systems Laboratory
Course Code: EC 14.326
Credit Hours: 1
Semester, Year: Spring, III
Branch: ECE
Prerequisite: Microprocessor Programming and Interfacing (EC 14.202)

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
EC 14.326.1	Understand and 8051 Microcontroller	Understand
EC 14.326.2	Write an ALP for data movement between memory and registers	Apply
EC 14.326.3	Write an ALP for finding largest/smallest numbers	Apply
EC 14.326.4	Write an ALP for Port Programming	Apply
EC 14.326.5	Write an ALP for Temperature control	Apply
EC 14.326.6	Write an ALP for a traffic light algorithm.	Apply

Dr. Gaurav Dhiman

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Course Outcome

Course Name: Power Electronics
Course Code: EE14.304
Credit Hours: 3
Semester, Year: Spring, III
Branch: Electrical Engineering
Prerequisite: Basics of Electronics Engineering (EC14.101), Network Analysis and Synthesis (EE14.201)

Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
EE14.304.1	Understand the basics of power semiconductor devices and Thyristor family devices.	Understand
EE14.304.2	Design a Phase Controlled Rectifier for different applications with different load.	Create
EE14.304.3	Design AC Voltage Controllers for different applications with different load.	Create
EE14.304.4	Design Cycloconverters for different applications with different load.	Create
EE14.304.5	Design DC Choppers for different applications with different load.	Create
EE14.304.6	Design Inverters for different applications with different load.	Create

Dr. Th. Parashkumar Singh
10/01/2020

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Course Outcome

Course Name: Digital Communication Laboratory

Course Code: EC 14.324

Credit Hours: 2

Semester, Year: Spring, III

Branch: EC III year

Prerequisite:

Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
EC 14.324.1	Understand and demonstrate the theory of digital communication systems that will be discussed in the lecture course. Improve their visualization skills so that they can develop new products.	Understand
EC 14.324.2	Understand some of the electronic components that make up digital communication systems.	Create
EC 14.324.3	Analyse the theory and proper laboratory procedure; this includes • Precise record-keeping. • Safety measures. • Capabilities as well as limitations of measurement equipments.	Analyse
EC 14.324.4	Apply and implement the circuits of analog modulation and demodulation on breadboard and verification of the results using CRO.	Apply
EC 14.324.5	Understand and practice the turning of a function generator, frequency, impedance, CRO for getting the desired result. Implement the circuits/set-up of Transmission lines, Optical Fibre communication, Satellite communication and detection of the received signals by using LEDs, multimeters, speakers and CROs	Understand

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Course Outcome

Course Name: Statistics and Probability Theory
Course Code: MA-14.202
Credit Hours: 4
Semester, Year: Spring, II
Branch: ECE
Prerequisite: Ist Year Mathematics

Module wise Course Outcome (CO)

Module	Course Outcome Number	Course Outcome	Bloom Taxonomy
		At the end of the course, Student will be able to:	
Unit 1	MA-14.202.1	Understand the applications of Baye`s theorm	Understand
Unit 2	MA-14.202.2	Understand data analysis and probability	Understand
Unit 3	MA-14.202.3	solve the problems	Create
Unit 4	MA-14.202.4	solve the problems	Understand
Unit 5	MA-14.202.5	Understand the errors and significances	Apply
Unit 6	MA-14.202.6	apply the mathematical techniques to calculate the relation between data	Apply
Unit 7	MA-14.202.7	Applying the queuing modals in day to day problems	Apply

15/01/20
Ms.Kiran Singh Bais

School of Law

Course Outcomes

Course Name: **Accountancy – I (Financial Accounting)**

Course Code: **AC 111**

Year: **2019-2020**

Semester: **Autumn**

Faculty Name: **Dr. Anjali Sharma**

CO Number	Course Outcome Statement At the completion of the course, student will be able to:	Taxonomy Level
AC 111.1	Explain the basic concepts, rules & scope of accounting	Understand
AC 111.2	Assess the steps in the accounting process	Evaluate
AC 111.3	Analyse the depreciation accounting methods adopted by trading firms	Analyse
AC 111.4	Demonstrate the accounting techniques of rectification of errors with the help of illustrations	Apply
AC 111.5	Design Final Accounts for the trading concerns	Create
AC 111.6	State whether the items related with the business is of capital or revenue nature	Remember

Signature of the Faculty

School of Law

Course Outcomes

Course Name: **Accountancy – III (Management Accounting)**

Course Code: **AC 211**

Year: **2019-2020**

Semester: **Autumn**

Faculty Name: **Dr. Anjali Sharma**

CO Number	Course Outcome Statement At the completion of the course, student will be able to:	Taxonomy Level
AC 211.1	Explain the basic concept, scope and functions of management accounting	Understand
AC 211.2	Analyse the financial analysis methods adopted by firms	Analyse
AC 211.3	Demonstrate management accounting techniques with the help of illustrations	Apply
AC 211.4	Evaluate the elements of budgeting for preparing budget	Evaluate
AC 211.5	Describe the methods of fund flow statement	Remember
AC 211.6	Design a management report of trading firm for decision making	Create

Signature of the Faculty

School of Law

Course Outcomes

Course Name: **Accountancy – V (Auditing – I)**

Course Code: **AC 311**

Year: **2019-2020**

Semester: **Autumn**

Faculty Name: **Dr. Anjali Sharma**

CO Number	Course Outcome Statement At the completion of the course, student will be able:	Taxonomy Level
AC 311.1	Discuss the origin, development and concept of audit profession	Understand
AC 311.2	Assess the steps in the audit process	Analyse
AC 311.3	Examine the internal check of various transactions of organisation	Apply
AC 311.4	Compare aspects of vouching, valuation and verification	Evaluate
AC 311.5	Describe the methods of depreciation	Remember
AC 311.6	Develop audit reports	Create

Signature of the Faculty

MODY UNIVERSITY OF SCIENCE AND TECHNOLOGY

School of Law

Course Outcomes

Course Name: BADM-I (Business Communication)

Course Code: BA 111

Year: 2019-2020

Semester: Autumn

Faculty Name: Kiran Tiwari

CO Number	Course Outcome Statement At the completion of the course, student will be able to understand	Taxonomy Level
BA 111.1	Students will be able to describe the importance of effective business communication.	Remember
BA 111.2	Students will be able to understand the barriers to effective communication and learn to remove them.	Understand
BA 111.3	Students will be able to demonstrate her verbal and non-verbal communication ability through presentations.	Apply
BA 111.4	Students will be able to identify key principles of effective public speaking and develop skills in listening actively and empathetically.	Analyse
BA 111.5	Students will be able to evaluate the appropriate usage of informative business messages and write an informative business message.	Evaluate
BA 111.6	Students will be able to prepare and present effective presentations aided by ICT tools and able to compose e-mail, Resume, formal reports and business letters.	Create

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School of Law

Course Outcomes

Course Name: BADM-III (Human Resource Management)

Course Code: BA 211

Year: 2019-2020

Semester: Autumn

Faculty Name: Kiran Tiwari

CO Number	Course Outcome Statement At the completion of the course, student will be able to understand	Taxonomy Level
BA 211.1	Students will be able to describe the concepts and functions of human resource management, recruitment, selection, training & development and performance management.	Remember
BA 211.2	Students will be able to explain why and how workers join trade unions.	Understand
BA 211.3	Students will be able to demonstrate an understanding of key terms, theories/concepts and practices within the field of Human Resource Management.	Apply
BA 211.4	Students will be able to analyze the need and methods adopted for recruitment and selection, training and development in organization.	Analyse
BA 211.5	Students will be able to evaluate training programs using appropriate design.	Evaluate
BA 211.6	Students will be able to able to design compensation structure that is consistent with organizational goals. Also develop the performance management system & appraisals and able to do manpower planning & job analysis.	Create

School of Law

Course Outcomes

Course Name: **Business Administration - V (Principles of Marketing Management)**

Course Code: **BA 311**

Year: **2019-2020**

Semester: **Autumn**

Faculty Name: **Dr. Anjali Sharma**

CO Number	Course Outcome Statement At the completion of the course, student will be able to:	Taxonomy Level
BA 311.1	Explain the basic concepts, scope and significance of marketing management	Understand
BA 311.2	Assess the processes of marketing mix	Evaluate
BA 311.3	Classify the steps in the consumer buying process	Analyse
BA 311.4	Examine the characteristics of pricing procedures	Apply
BA 311.5	Design a marketing plan for a new venture	Create
BA 311.6	Describe the functional areas of physical distribution	Remember

Signature of the Faculty

School of Law

Course Outcomes

Course Name: **CRIMINAL JUSTICE AND HUMAN RIGHTS**

Course Code: **CL611**

Year: **2019-20**

Semester: **Autumn**

Faculty Name: **Dr. Aseem Chandra Paliwal**

CO Number	**Course Outcome Statement** **At the completion of the course, student will be able to understand-**	**Taxanomy Level**
CL611.1	THEORETICAL AND HISTORICAL PERSPECTIVES OF CRIMINAL JUSTICE SYSTEM – Perspective of Crime and Criminal -Sin, Wrong and Crime; Changing concept of crime in varying social formations; Crime viewed through consensus or conflict perspectives; Relationship between Criminal Policy and Criminal Law.	Apply
CL611.2	HUMAN RIGHTS PROBLEMS – Police Atrocities and Accountability; Violence against women and children; Communal Violence; Caste and Class conflicts; Maintenance of Law and Order, Terrorism and Insurgency.	Analyse
CL611.3	RIGHTS OF AN ACCUSED – Constitutional Protection to an accused-Legal Aid; Access to Justice and Speedy Justice; Double Jeopardy; Right against self-incrimination; Production before Magistrate; Fair Trial; Speedy Trial; Appeal; probation and parole.	Remember
CL611.4	JUDICIAL SYSTEM – Importance of judicial system in modern societies; Judicial organization in India; Salient features of Indian judicial system: Independence, public trial and fair trial; Primary consideration for judicial	Evaluate

	functioning: Due process, speedy trials and fair deal to poorer sections; Modernization and reforms in the justice administration.	
CL611.5	PRISON SYSTEM – Historical development of prisons; Objectives of imprisonment; UN Standard Minimum Rules for treatment of prisoners and other standard settings, Conventions and documents; Legal framework of the prison system in India; Modernization of prisons; Open air jails; Role of voluntary agencies in prevention of crime and treatment of offenders; Discharged prisoners aid, after care and rehabilitation: Need, importance and services in India; Pre-release and premature release.	Create
CL611.6	INTERNATIONAL PERSPECTIVES – International Crimes; International crime control and protection agencies e.g. Interpol; International co-operation in combating of transnational organized crimes and international terrorism-Palermo Convention on Transnational Organized Crime,2000,Convention against Illicit Trafficking of Narcotic and Psychotropic Substances1988-90,Extradition and mutual assistance in criminal proceedings; International Criminal Court-Rome Statute,1998;International norms on administration of criminal justice - UN General Assembly Resolutions.	Understand

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Course Outcome

Course Name: Modern English Grammar and Usage
Course Code: EG 111
Credit Hours: 05
Semester, Year: Autumn, 2019
Branch: School of Law
Prerequisite: Good interest in English Grammar and writing skills

Module wise Course Outcome (CO)

Module	Course Outcome Number	Course Outcome	Bloom Taxonomy
		At the end of the course, Student will be able to:	
Unit 1	EG111.1	Understand the elements of a sentence such as Subject, Verb, Object, Complement, Adjunct and Clause	Understand
Unit 2	EG 111.2	Apply Degrees of adjectives, adjectives, active and passive voice, Direct and indirect narration in writing and communication, Simple, Compound and Complex sentences	Apply
Unit 2	EG111.3	Apply Tenses, Modal Verbs, Determiners (a, an, the, little, a little, the little, few, a few, the few, much, more and most) in writing and communication	Apply
Unit 3	EG111.4	Write Theme related paragraphs, formal, informal and business letters, application, Report and Resume	Create
Unit 3	EG111.5	Write Story, Poetry, translate the pictures, interpret between the lines	Create
Unit 4	EG111.6	Remember common sentence structural errors (syntactic and semantics), develop vocabulary building skills(phrasal verbs, idioms, one word substitution, antonym, synonym, Homonyms) efficient reading and note taking	Remember

Faculty Name: Vinay Kumar Tiwari

School of Liberal Arts & Sciences

Course Outcomes

Course Name: **French-I (Certificate of Proficiency- French)**

Course Code: **FL 221**

Year: **P.G.I / U.G. II**

Semester: **Autumn**

Faculty Name: **Mr. Amit Kumar Srivastava**

CO Number	**Course Outcome statement** At the completion of the course, student will be able to	**Taxonomy Level**
FL 221.1	The student will have learnt French words for cardinal numbers, nationalities etc.	Apply
FL 221.2	The student will have learnt French words for the days of the week, months etc.	Create
FL 221.3	The student will have learnt French ordinal numbers, terms of class/office use etc.	Apply
FL 221.4	The student will have acquired knowledge of French words for time, weather, daily routine etc.	Apply
FL 221.5	The student will know French words related to various aspects of French culture	Understand
FL 221.6	The student will have acquired knowledge of French words for various walks of life, colours, food, family, etc.	Remember

Signature of the faculty

School of Liberal Arts/ School of Science

Course Outcomes

Course Name: German-I

Course Code: GL 221

Year: 2019-20

Semester: Autumn

Faculty Name: Vinay Kumar Tiwari

CO Number	**Course Outcome statement** At the completion of the course, student will be able to	**Taxonomy Level**
GL 221.1	Remember German Alphabet system and pronunciation of vowels and consonants, Months, Days and name of the countries in German and English, parts of the body and colors.	Remember
GL 221.2	Apply Greeting words at the opportune occasions (which greeting phrases to use at particular situation), learning the hidden patterns in the counting of German number system , Writing and speaking time in German in formal and informal ways.	Apply
GL 221.3	Understand the system of articles of (definite and indefinite articles) and Noun and their genders (masculine, feminine and neutral), Number of nouns, Introduction of regular and irregular verbs. Conjugation of regular and irregular verbs, Understand cases (nominative, accusative and dative) Nominative and Accusative sentences. Negative articles, negative sentences with 'nicht and kein',	Understand
GL 221.4	Understand Personal and possessive pronouns in Nominative, Akkusative and Dative Cases, understand interrogative pronouns and construction of interrogative sentences with the help of interrogative pronouns and the verb at the first position, Understand Separable verbs: its Pronunciation, conjugation and uses in simple & complex sentences.	Understand
GL 221.5	Apply modal verbs its conjugation and their uses in present	Apply

	tense, Apply Present Tense in Daily use such as writing daily routine in Present Tense, Akkusative, Dative and Changeable prepositions in sentences effectively	
GL 221.6	Construct sentences about one's Introduction and others in German by using Present Tense and correcting the wrong sentences (semantically and syntactically) rewriting the sentences by changing the word order, Translation from German to English and Vice-versa.	Create

Signature of the faculty

Vinay Kumar Tiwari

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Course Outcomes

Course Name: **Japanese - I**

Course Code: **JL 221**

Year: 2019-20

Semester: Autumn

Faculty Name: Dr. Ashok Singh Rathore

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
JL 221.1	The Student will able to introduce himself and others, greet each other, understand the pronunciation and understand the origin and nature of Japanese Language	Understand
JL 221.2	The Students will able to identify the difference between 3 scripts, and understand radicals of Japanese script as well as able to read and write Hiragana script	Evaluate
JL 221.3	Student s will fluent in some Japanese Vocabulary like as Counting, Family names, birds and animals name, fruits and vegetables, colors name months name, numbers, days of the week, parts of the body	Remember
JL 221.4	Students will be able to indicate things, places, persons and places. Student can ask confirmatory questions about existence of noun	Apply
JL 221.5	Students will able to express the sentences related to the existence of living being and nonliving being at some Places and can ask questions related to existences	Create
JL 221.6	Students will able to use the particles related to the repetition of object I very next sentence, action at some place, relationship between two nouns, connectivity between two nouns and also able to use suffixes and related to Nationalities, Languages, respective way of saying some one's name, plural of many person	Analyse

Signature of the faculty

MODY UNIVERSITY OF SCIENCE AND TECHNOLOGY

School of Law

Course Outcomes

Course Name: Economics-I (Microeconomics)

Course Code: LE 111

Year: 2019-2020

Semester: Autumn

Faculty Name: Kiran Tiwari

CO Number	Course Outcome Statement At the completion of the course, student will be able to understand	Taxonomy Level
LE 111.1	Students will be able to define the concept of microeconomics, demand & supply, utility and satisfaction, production, cost, revenue and market structure.	Remember
LE 111.2	Students will be able to explain what economics is and why it is important.	Understand
LE 111.3	Students will be able to determine the break-even point and the shutdown points of production for a perfectly competitive firm. Calculate the firm's fixed variable, average, marginal and total costs and firm's average, marginal and total revenues.	Apply
LE 111.4	Students will be analyse firm's fixed, variable, average, marginal, total costs, average, marginal and total revenues.	Analyse
LE 111.5	Students will be able to measure fixed, variable and total costs, total revenues as the area under the average revenue curves; Evaluate profit and losses for a perfectly competitive firm.	Evaluate
LE 111.6	Students will be able to calculate and plot the graph of firm's fixed, variable, average, marginal and total costs; the firm's average, marginal and total revenues.	Create

MODY UNIVERSITY OF SCIENCE AND TECHNOLOGY

School of Law

Course Outcomes

Course Name: Economics-III (Indian Financial System)

Course Code: LE 211

Year: 2019-2020

Semester: Autumn

Faculty Name: Kiran Tiwari

CO Number	Course Outcome Statement At the completion of the course, student will be able to understand	Taxonomy Level
LE 211.1	Students will be able to describe the broad features of Indian financial system & its components and define the sources of finance.	Remember
LE 211.2	Students will be able to explain the broad features of Indian financial institutions with its apex banks' objectives and purview. Also understand the instruments to control credit in the country.	Understand
LE 211.3	Students will be able to demonstrate the role of government to correct market failures and possible advantage of public financing.	Apply
LE 211.4	Students will be able to analyze the main ways of raising capital and their respective advantages and disadvantages in different circumstances and develop ideas of the basic characteristics of Indian economy, its potential.	Analyse
LE 211.5	Students will be able to evaluate the strategies to promote financial products and services.	Evaluate
	Students will be able to integrate the concept, apply financial concepts and create strategies to promote financial products and	

LE 211.6	services.	Create

School of Law

Course Outcomes

Course Name: Gender Justice and Law

Course Code: LF 100

Year: 2019-2020

Semester: Autumn

Faculty Name: Megha Middha

CO Number	Course Outcome Statement At the completion of the course, student will be able to understand	Taxanomy Level
LF 100.1	They have understanding about the historical development of Position of women in Vedic, Post Vedic and Medieval Period	Remember
LF 100.2	They are able to know the various rights and duties as enshrined under the Constitution of India.	Understand
LF 100.3	Students have a brief idea of the various criminal laws regulating and protecting rights of women (the provisions of Cr.P.C and IPC), wherein they understand the aspects of arrest of women, rape, abduction etc.	Apply
LF 100.4	They are able to differentiate between status of women and its progress post independence.	Analyze
LF 100.5	They are able to understand and analyse rationale behind the need of Protection of woman against Domestic Violence Act,2005 and Dowry (Prohibition) Act, 1960 and the trafficking of women through the understanding of Immoral Traffic (Prevention) Act,1956	Evaluate
LF 100.6	They develop the understanding of Role of Statutory Bodies- National Commission for Women, State Commission of women, free legal aid for women, the laws relating to prevention of child marriage and Indecent Representation of Women (Prohibition) Act, 1986. Also able to create the Law assignments and projects.	Create

Megha Middha

Signature of the Faculty

School of Law

Course Outcomes

Course Name: Law of Torts

Course Code: LF 121

Year: 2019-2020

Semester: Autumn

Faculty Name: Megha Middha

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
LF 121.1	Learn various legal maxims and understand the mental element in tort.	Remember
LF 121.2	To understand the meaning the tort, the difference between law of tort and law of torts.	Understand
LF 121.3	To understand the concept of defamation, nuisance, negligence and Remedies in tort and apply the same in day to day life experiences.	Apply
LF 121.4	To understand the concept of strict and absolute liability and analyse the difference between them.	Analyse
LF 121.5	To understand and evaluate the various general defenses one can take after a tort is committed.	Evaluate
LF 121.6	To understand the concept of remoteness of damages. Also able to learn how to create and write proper answers and assignments in law.	Create

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School of Law

Course Outcomes

Course Name: **Constitution Law - I**

Course Code: **LF 211**

Year: **2019-2020**

Semester: **Autumn**

Faculty Name: **Mr. Vikram Sharma**

CO Number	**Course Outcome Statement At the completion of the course, student will be able to:**	**Taxonomy Level**
LF 211.1	Understand the meaning and importance of Constitution	Understand
LF 211.2	Fundamental duties as a citizen	Evaluate
LF 211.3	Explain about making of Indian Constitution - contribution of Constituent assembly on it.	Analyse
LF 211.4	Know how courts have interpreted these rights	Apply
LF 211.5	Describe the importance of Preamble of the Indian Constitution and its significance.	Create
LF 211.6	Describe the Salient (Outstanding) features of Indian Constitution.	Remember

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Course Outcomes

Course Name: **Law of Crimes – I**

Course Code: **LF 221**

Year: **2019-2020**

Semester: **Autumn**

Faculty Name: **Dr. Parul Pareek**

CO Number	Course Outcome Statement At the completion of the course, student will be able to:	Taxonomy Level
AC 111.1	Identify the list of offences recognized and protected by the law against societies at large	Remember
AC 111.2	The various provisions of the Act in reference to the specific offences mentioned under the Code, 1860	Understand
AC 111.3	Demonstrate the society perspective with regards to crimes against Women, body and Property	Apply
AC 111.4	Analysis of the various theories of punishment provided in criminal law system	Analyse
AC 111.5	The Indian criminal justice system and to make a comparative analysis of the existing system with the rest of the world	Evaluate
AC 111.6	An approach towards the criminal law system and check the research gap that is needed for introducing an amendment	Create

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School of Law

Course Outcomes

Course Name: Contract III

Course Code: LF 231

Year: 2019-20

Semester: Autumn

Faculty Name: Archana Kumari

CO Number	**Course Outcome statement** At the completion of the course, student will be able to	**Taxonomy Level**
LF 231.1	They can explain the about the parternership and a company, HUF and co-ownership and minors position under a partnership firm.	Understand
LF231.2	They are able to explain what constitutes a partnership firm and the role and duties of partners in a firm.	Create
LF231.3	They are able to apply various kinds of partnership under the Indian Partnership Act and also the different partners.	Apply
LF231.4	They are able to apply the various modes of dissolution of partnership and their conditions.	Remember
LF231.5	They are able to explain whether the registration of firms are binding or optional.	Analyze
LF 231.6	They are able to explain the effects of registration of a firm .	Evaluate

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School of Law

Course Outcome

Course Name: Jurisprudence-I

Course Code: LF 311

Year: 2019-2020

Semester: Autumn

Faculty Name: Dr. Parul Pareek

CO Number	**Course Outcome statement** At the completion of the course, student will be able to	**Taxonomy Level**
LF 311.1	Explain the meaning, nature and scope of jurisprudence and differentiate between jurisprudence and legal theory	Understand
LF 311.2	Illustrate the views of various positivist jurists on the nature and kinds of law	Analyze
LF 311.3	State the principles of the Kelson's pure theory of law and identify its analogy with the legal system in India	Remember
LF 311.4	Predict the similarities between the historical school of law and the legal system in India	Apply
LF 311.5	Assess the philosophies of law of the various jurists of Natural and Sociological School of Law	Evaluate
LF 311.6	Develop the concept of law and morality in the context of Indian legal system	Create

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School of Law

Course Outcomes

Course Name: **Labour Law I**

Course Code: **LF 321**

Year: **2019-20**

Semester: **Autumn**

Faculty Name: **Shrawani Shagun**

CO Number	Course Outcome Statement At the completion of the course, student will be able to understand	Taxanomy Level
LF 321.1	They can differentiate different kinds Organised and unorganized sectorof Labour class in India	Remember
LF 321.2	They have understanding regarding how India is a welfare state with special reference to Labour Class.	Analyse
LF 321.3	They have the conceptual understanding of social security laws in India	Create
LF 321.4	They are able to understand and analyse Magna Carta of working Class in India	Understand
LF 321.5	They have thorough understanding of the Factories Act, Industrian disputes Act	Evaluate
LF 321.6	The students go on Industrial visits to see the application of law on the different class of works there	Apply

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School of Law

Course Outcomes

Course Name: Family Law I

Course Code: LF 331

Year: 2019-2020

Semester: Autumn

Faculty Name: Navna Singh

CO Number	**Course Outcome statement** At the completion of the course, student will be able to	**Taxonomy Level**
LF331.1	Remember the sources and schools of Hindu and Muslim law.	Remember
LF331.2	Learn about basic concepts like marriage and divorce.	Understand
LF331.3	Students will gain skills of thinking, analysis, written and verbal presentation of ideas of argument.	Apply
LF331.4	Family law examines historical and social contexts that have influenced the modern definition and regulation of families.	Analyse
LF331.5	Evaluate the basic grounds for divorce and maintenance under Hindu law and Muslim law.	Evaluate
LF331.6	Determine the requirement of uniform civil code.	Create

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Course Outcomes

Course Name: **Company Law I**

Course Code: **LF 341**

Year: **2019-20**

Semester: **Autumn**

Faculty Name: **Shrawani Shagun**

CO Number	Course Outcome Statement At the completion of the course, student will be able to understand	Taxanomy Level
LF 341.1	They can differentiate different kinds of Company	Remember
LF 341.2	They have understanding regarding Shares and Debentures of the company	Analyse
LF 341.3	They have the conceptual understanding of various principles of law regulating the capital management in the company	Create
LF 341.4	They are able to understand and analyse different procedure of meetings	Evaluate
LF 341.5	They have thorough understanding of the concept of borrowings	Understand
LF 341.6	The students are able to apply and see the role of directors, shareholders, CSR policies and the regulations thereof.	Apply

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School of Law

Course Outcomes

Course Name: Law of Evidence

Course Code: LF 411

Year: 2019-2020

Semester: Autumn

Faculty Name: Navna Singh

CO Number	**Course Outcome statement** At the completion of the course, student will be able to	**Taxonomy Level**
LF411.1	Focus on the rules relating to dying declaration and admissibility of dying declaration.	Remember
LF411.2	Determine and analyse the standard of proof and burden of proof in civil and criminal cases, and specify types of presumptions.	Understand
LF411.3	Evaluate the rules governing examination in chief, cross examination and reexamination, and establish the procedures in the conduct of a civil or criminal trial.	Apply
LF411.4	Analyse and define the concept and general nature of evidence, and illustrate the different types of evidence and court procedures relating to evidence.	Analyse
LF411.5	Determine the rules relating to competence and compellability of witnesses in relation to case study material.	Evaluate
LF411.6	Determine the rule relating to relevance of evidence in court and admissibility of evidence before the court.	Create

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School of Law

Course Outcomes

Course Name: Civil Procedure Code-I

Course Code: LF 421

Year: 2019-2020

Semester: Autumn

Faculty Name: Mr. Rahul Soni

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
LF 421.1	Understand how and in what circumstances minor, persons of unsound mind etc. file a case in the Court. Also, analyse the concepts of public nuisance.	Remember
LF 421.2	Understand the historical background of Civil Procedure Code and Its scheme. They will also be able to differentiate between decree, judgment etc.	Understand
LF 421.3	They will be able to understand the concepts like joinder, non-joinder of the parties, the procedure for issuance of summons, etc. and also able to understand the filinf of the same in the court.	Apply
LF 421.4	Analyse and know the procedure of the Court and what is given in the	Analyse

	Code.	
LF 421.5	Understand the trial of suits and apply the same. Understand how the examination of witnesses takes place.	Evaluate
LF 421.6	They will know what plaint and written statement is the contents of the same, differentiate between set off and counter claim. Also they will be able to prepare drafts of the same.	Create

Signature of the faculty

School of Law

Course Outcomes

Course Name: Criminal Procedure Code-I

Course Code: LF 431

Year: 2019-2020

Semester: Autumn

Faculty Name: Mr. Aseem Chandra Paliwal

CO Number	**Course Outcome statement** At the completion of the course, student will be able to	**Taxonomy Level**
LF431.1	Discuss the relevance of criminal procedure code and list the hierarchy of criminal courts	Understand
LF431.2	Remember the provisions relating to the maintenance of public order and tranquility and maintenance of persons entitles to maintenance	Remember
LF431.3	Analyze and outline the preventive actions of the police and executive magistrates	Analyze
LF431.4	Assess the conditions requisite for initiation of proceedings	Evaluate
LF431.5	Examine the evidentiary value of FIR and apply the rules of investigation to solve criminal cases	Apply
LF431.6	Create bail applications, create charges, formulate complaints to magistrates	Create

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School of Law

Course Outcomes

Course Name: **Public International law-I**

Course Code: **LF 441**

Year: **2019-20**

Semester: **Autumn**

Faculty Name: **Ms. Vini Kewaliya**

CO Number	**Course Outcome Statement** **At the completion of the course, student will be able to understand**	**Taxanomy Level**
LF 441.1	Critically evaluate the relationship between international and domestic law	Evaluate
LF 441.2	Demonstrate capacity to assess how specific human rights may be asserted, enforced or violated	Remember
LF 441.3	They can explain the legal nuances on the Law of treaties	Apply
LF 441.4	Demonstrate knowledge and understanding of the international rights frame work, its origins and justifying theories;	Create
LF 441.5	It focuses on analysing the gains from trade, the changing patterns of trade, the income distributional consequences of liberalising foreign trade, the relationship between trade, investment, and economic growth, and the reasons for and consequences of trade policies	Analyse
LF 441.6	They have understanding about the borders- land, water and sea	Understand

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School of Law

Course Outcomes

Course Name: Law of taxation I

Course Code: LF 471

Year: 2019-20

Semester: Autumn

Faculty Name: Archana Kumari

CO Number	**Course Outcome statement** At the completion of the course, student will be able to	**Taxonomy Level**
LF471.1	They can explain the Indian taxation system and its historical background.	Understand
LF 471.2	They are able to explain the Income Tax Act and its practicality in the direct tax code .	Analyze
LF471.3	They are able to apply various deductions and exemptions for reducing the tax liabilities under the Income Tax Act.	Create
LF 471.4	They are able to apply the constitutional provisions that provide for the levying of taxes by the authority and distribution of revenues between centre and states.	Evaluate
LF471.5	They are able to explain clubbing of incomes provisions under the Act and the set off and forwarding of losses under the Act.	Remember
LF471.6	They are able to explain different tax authorities and their powers.	Apply

Signature of the faculty

School of Law

Course Outcome

Course Name: Human Rights and Humanitarian Law

Course Code: LF 481

Year: IV year

Semester: Autumn

Faculty Name: Sangeeta Jakhar

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
LF 481.1	To know various enactments (national and international) and Remember the Basic rights available to individuals being a Human and also will get to know the historical background of these various rights and to understand their applicability in different kinds of proceedings.	Remember
LF 481.2	To understand the functioning and working of various UN bodies and Constitution and know their practical utility.	Understand
LF 481.3	To analyze the role of Supreme Court and other subordinate judiciary in uplifting the rights of individuals and about the different agencies which keeps a check or control over the functioning of administrative authorities?	Analyse
LF 481.4	How the implementation Mechanism of Human Rights at international level can be ensured by International organisations Like ICC and ICJ etc.	Apply
LF 481.5	Evaluate the students performance in the class by asking questions	Evaluate
LF 481.6	To create various kinds of assignments on implementation mechanism of the various rights by way of case studies.	Create

Signature of the faculty

School of Law

Course Outcomes

Course Name: Intellectual Property Rights

Course Code: LF 511

Year: V year

Semester: Autumn

Faculty Name: Sangeeta Jakhar

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
LF 511.1	Understanding, defining and differentiating different types of intellectual properties (IPs) and their roles in contributing to organizational competitiveness.	Remember
LF 511.2	Be familiar with statutes, precedents, and other sources as starting points for legal research regarding most intellectual property law issues.	Understand
LF 511.3	Understanding of the justifications and rationales for protecting intellectual property and of the core doctrines of intellectual property law and of the specific aspect(s) of intellectual property law that is/are relevant to their legal careers.	Analyse
LF 511.4	Explain why something is or is not entitled to intellectual property protection and develop reasonable legal arguments with respect to the dispute.	Apply
LF 511.5	To understand the assignment and licencing aspects of Intellectual properties.	Evaluate
LF 511.6	Demonstrate knowledge and understanding of the appropriate procedures for obtaining and for disputing intellectual property protection and of the litigation system with respect to intellectual property enforcement.	Create

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School of Law

Course Outcomes

Course Name: Information Technology Law

Course Code: LF 521

Year: 2019-2020

Semester: Autumn

Faculty Name: Megha Middha

CO Number	**Course Outcome statement** At the completion of the course, student will be able to	**Taxonomy Level**
LF 521.1	To know what steps have been taken by the government of India to make India a digitalized nation and an understanding about e-governance.	Remember
LF 521.2	To understand the relevance of cyber space and laws in the present times, e-commerce, e-signature etc.	Understand
LF 521.3	To understand the importance of e-contacts, its validity and cyber jurisdiction and analyzing the same and applying the same into day-to-day lives.	Apply
LF 521.4	To understand the various forms of cyber crimes existing and analyse what more could be done in the same. Also apply the same in day to day activities as how they need to be careful and prevent themselves from being a victim to these crimes.	Analyse
LF 521.5	To understand the various authorities that exists for looking into the cyber law cases and complaints.	Evaluate
LF 521.6	To have an understanding about the process of electronic and digital signatures and duties of the subscriber. Also will be able to create the digital signatures in Abode.	Create

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School of Law

Course Outcomes

Course Name: **Right to Information**

Course Code: **LF 551**

Year: **2019-20**

Semester: **Autumn**

Faculty Name: **Ms. Vini Kewaliya**

CO Number	Course Outcome Statement At the completion of the course, student will be able to understand	Taxanomy Level
LF 551.1	They remember the sections of the Right To Information Act, 2005 and its evolution	Remember
LF 551.2	They have understanding regarding the working, power and duties of the chief Information commissioners and public Information Officers	Analyse
LF 551.3	They have the conceptual understanding of application making procedure and its application on the information	create
LF 551.4	They are able to analyse the shift in the accountability and transparency in the functioning of the states and authorities	Evaluate
LF 551.5	They can identify the subject area where the Act applies and if there is any exemption to it	Apply
LF 551.6	They have understanding exemption and severability of the information that falls in the category of the Right to information	Understand

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School of Law

Course Outcomes

Course Name: Property Law

Course Code: LF 561

Year: 2019-2020

Semester: Autumn

Faculty Name: Mr. Rahul Soni

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
LF 561.1	Know the various provisions of Property Law.	Remember
LF 561.2	Understand what are the various types of properties and the theories of properties.	Understand
LF 561.3	Will in practical life, able to apply the concepts of mortgage, lease etc.	Apply
LF 561.4	Differentiate between sale, mortgage, lease, gift, exchange	Analyse
LF 561.5	Understand the difference between lease and mortgage.	Evaluate
LF 561.6	Create the lease and mortgage deed.	Create

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School of Law

Course Outcomes

Course Name: Banking law

Course Code: LF 571

Year: 2019-20

Semester: Autumn

Faculty Name: Archana Kumari

CO Number	**Course Outcome statement** At the completion of the course, student will be able to	**Taxonomy Level**
LF 571.1	They can explain the Indian Banking system and its historical background.	Remember
LF 571.2	They are able to explain the Banking Regulation Act, RBI Act, SARFAESI Act etc. and its practicality in the banking system.	Understand
LF 571.3	They are able to apply various lending principles by RBI and CRR, SLR, Repo rates and reverse repo rates.	Analyze
LF 571.4	They are able to explain the relationship between a banker and customer and different types of customers.	Apply
LF 571.5	They are able to talk about NIA and the forms of cheques and its dishonor conditions under NIA.	Evaluate
LF 571.6	They are able to explain banking frauds in internet banking, online banking and the need of banking ombudsman schemes.	Create

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School of Law

Course Outcomes

Course Name: **Media Law**

Course Code: **LF 581**

Year: **2019-2020**

Semester: **Autumn**

Faculty Name: **Shrawani Shagun**

CO Number	Course Outcome Statement At the completion of the course, student will be able to understand	Taxanomy Level
LF 581.1	They have the understanding of basic concepts of the evolution of social media and the legal nuances in this regard	Remember
LF 581.2	They can differentiate different kinds Constitutional rights applicable on Media	Analyse
LF 581.3	They have the conceptual understanding of various principles of law regulating the Pre-censorship of different media	Understand
LF 581.4	They are able to understand and analyse the application of Intellectual property rights on Media	Evaluate
LF 581.5	They have thorough understanding of rules regulating advertisement, movies, series and OTT platform	Create
LF 581.6	They can explain the applicable law on the different kinds of law applicable on different Medias	Apply

Signature of the Faculty

School of Law

Course Outcomes

Course Name: Research methods and legal writing

Course Code: LF 611

Year: 2019-20

Semester: Autumn

Faculty Name: Miss Vinni kewaliya

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
LF611.1	They can explain the meaning and importance of research.	Understand
LF611.2	They are able to explain different kinds of research and the method of collection of data.	remember
LF611.3	They are able to apply the socio-legal research and use of logical reasoning in the socio legal research.	Apply
LF611.4	They are able to understand about the various steps in research and applicability of internet sources.	create
LF611.5	They are able to understand about dissertation.	evaluate
LF611.6	They are able analyze what are the various factors for writing a dissertation.	analyze

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School of Law

Course Outcomes

Course Name: Comparative Public Law

Course Code: LF 621

Year: 2019-2020

Semester: Autumn

Faculty Name: Vikram Sharma

CO Number	**Course Outcome statement** At the completion of the course, student will be able to	**Taxonomy Level**
LF 621.1	Be familiar with the methodology of comparative public law. To know overview of the scope, uses and methods of comparative public law. Understand the concept of public law and its various branches. Further the students will be provided with information as to how public law differs from private law and how principles of accountability are important in public law.	Remember
LF 621.2	Be able to understand the similarities and differences between leading legal traditions in key areas like separation of powers, protection of rights and the role of judiciary.	Understand
LF 621.3	To critically analyse new constitutional movements that are changing the boundaries of constitutionalism and constitutional systems.	Analyse
LF 621.4	Be able to use comparative methodology in public law analysis.	Apply
LF 621.5	To evaluate student's performance on various concepts of separation of powers, rights, and judicial review to better understand and appreciate one's own legal system.	Evaluate
LF 621.6	To create research assignments and projects on various topics of comparative public law.	Create

Signature of the faculty

School of Law

Course Outcomes

Course Name: **Environmental law**

Course Code: **LF631**

Year: **2019-20**

Semester: **Autumn**

Faculty Name: **Archana Kumari**

CO Number	**Course Outcome Statement At the completion of the course, student will be able to understand**	**Taxonomy Level**
LF 631.1	They can explain the Indian environmental ethics and sources of environmental pollution and also various international environment declarations.	Remember
LF 631.2	They are able to explain the various Acts including EPA, 1986 regarding environment conservation.	Understand
LF 631.3	They are able to apply various principles that would benefit the environmental cases in India.	create
LF 631.4	They are able to apply the constitutional provisions that provide for the right to have a green environment and also the role played by Indian judiciary in protecting environmental issues in India.	Apply
LF 631.5	They are able to explain the Environment impact Assessment Rules, 2006 and also its benefits on the environment.	Evaluate
LF 631.6	They are able to explain the causes and effects of greenhouse gases on the environment and also its remedies.	Analyze

Signature of the Faculty:

School of Law

Course Outcomes

Course Name: Rights of Women & Their Protection

Course Code: LF 641

Year: 2019-2020

Semester: Autumn

Faculty Name: Rahul Soni

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
LF 641.1	Know the various provisions under Cr.P.C and IPC for the protection of women.	Remember
LF 641.2	Understand how the status of women has been protected under the Constitution of India.	Understand
LF 641.3	To understand the Status of both Hindu and Muslim Women under personal laws. Will be able to apply the various provisions of law provided for the protection of women.	Apply
LF 641.4	Analyse the status of women which has changed over the period of time.	Analyse
LF 641.5	Understand the status of women under Civil Laws.	Evaluate
LF 641.6	To know the various other criminal laws existing for the protection of women. Also, able to draft the maintenance application, etc.	Create

Signature of the faculty

School of Law

Course Outcomes

Course Name: **Law of contract – I**

Course Code: **LF 111**

Year: **2019-2020**

Semester: **Autumn**

Faculty Name: **Mr Vikram Sharma**

CO Number	**Course Outcome Statement** **At the completion of the course, student will be able to:**	**Taxonomy Level**
AC 111.1	The basic concept and terminologies of Law of Contract.	Understand
AC 111.2	The different processes that are involved in formation of a contract.	Evaluate
AC 111.3	The various doctrines in order to determine their relevance.	Analyze
AC 111.4	Critical thinking to bring about creative solutions to complex contract law problems.	Apply
AC 111.5	Oral and written arguments based on given sets of facts.	Create
AC 111.6	The relevant legal provisions that can be applied in area of contract law.	Remember

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School of aw

Course Outcomes

Course Name: Physics II

Course Code: LP 211

Year: SECOND

Semester: II (2019-20)

Faculty Name: Dr. Rakhee Choudhary

CO Number	**Course Outcome statement** At the completion of the course, student will be able to	**Taxonomy Level**
LP211.1	Analyze the wave Mechanics	Analyse
LP211.2	Interpret the interference, diffraction and polarisation	Understand
LP211.3	Apply these solve problems	Apply
LP211.4	Name the terminology in Laser	Remember
LP211.5	Creation the hologram's in different cases	Create
LP211.6	Evaluate the Nuclear phenomena	Evaluate

(Dr. Rakhee Coudhary)
Signature of the faculty

School of Law

Course Outcomes

Course Name: Sociology-I

Course Code: LS 121

Year: First

Semester: Autumn

Faculty Name: DR. RAMESH CHANDRA NAYAK

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
LS 121.1	The Concept of Sociology and its Nature and Scope and Alex Inkels' approach to the subject matter of Sociology	Understand
LS 121.2	Concept, Stages, Theories and Agencies of Socialization	Remember
LS 121.3	Concept and Characteristics of Family, Types of Family on different basis and the Recent changes in the structure and function of the Indian family system.	Analyse
LS 121.4	Concept and Types of Marriage- Marriage and divorce among the Hindus and Muslims, Traditional forms of Hindu Marriage, Hindu marriage Act 1955, Compulsory Registration of marriage, Recent changes in Hindu Marriage, Live-in Relationship.	Remember
LS 121.5	Concept, characteristics and Agencies of Social Control, Law as an agency of social control and Concept, Attributes, bases and theories of Social Stratification.	Apply
LS 121.6	Conceptof Sociology of Law and approaches such as Feminism and the law- Carol Smart, Law and Governmentality-Michel Foucault, The juridical field-Pierre Bourdieu and Colonialistion of the life world-Jurgen Habermas.	Evaluate

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School of Law

Course Outcomes

Course Name: Sociology-III

Course Code: LS 211

Year: Second

Semester: Autumn

Faculty Name: DR. RAMESH CHANDRA NAYAK

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
LS 221.1	Auguste Comte's Law of Three Stages, Positivism, Hierarchy of sciences, Social Statics and Dynamics	Understand
LS 221.2	Karl Marx's Historical Materialism, Dialectical Materialism, Alienation, Class and Theory of Class Struggle	Remember
LS 221.3	Max Weber's Social Action, Power, Bureaucracy	Analyse
LS 221.4	Max Weber's Protestant Ethics and the Spirit of Capitalism, The Ideal Type.	Remember
LS 221.5	Emile Durkheim's Division of Labour, Rules of Sociological Methods	Apply
LS 221.6	Emile Durkheim's Theory of Suicide and Elementary forms of religious life.	Evaluate

Signature of the faculty

School of Law

Course Outcomes

Course Name: Political Science - I (Political Theory)

Course Code: PL 111

Year: 2019-2020

Semester: Autumn

Faculty Name: Dr. Sanju Sharma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PL 111.1	Understand what is Politics and explaining the approaches to the Study of Political Science	Understand
PL 111.2	ability to analyse and develop arguments in political theory	Analyse
PL 111.3	Apply a critical understanding of Ideologies and problems in political theory	Apply
PL 111.4	To Interpret and assess information regarding a variety of political theory	Understand
PL 111.5	Define clearly the concept of democracy with its various varieties	Remember
PL 111.6	Assess the contemporary theories in the field of Political Science	Evaluate

Signature of the faculty

School of Law

Course Outcomes

Course Name: Political Science- III (Comparative Government & Politics-I)

Course Code: PL 211

Year: 2019-2020

Semester: Autumn

Faculty Name: Dr. Sanju Sharma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PS 221.1	Trace the evolution of Comparative Politics as a discipline and drawing a distinction between Comparative Politics and Comparative Government	Understand
PS 221.2	Identify the nature and scope of Comparative Politics.	Remember
PS 221.3	Analyse the approaches and models of comparison in Developed & developing societies.	Analyse
PS 221.4	Explain the nature and working of Political Parties and pressure Groups	Understand
PS 221.5	Critically analyze the features of a liberal democratic and socialist political system with focus on UK, USA and the People's Republic of China.	Analyse
PS 221.6	Demonstrate Basic Understanding of core concepts in Comparative Politics studies.	Apply

Signature of the faculty

School of Law

Course Outcomes

Course Name: Political Science – V (Western Political Thought)

Course Code: PL 311

Year: 2019-2020

Semester: Autumn

Faculty Name: Dr. K.S. Pareek

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PS 331.1	Identify the dominant features of Early Western Political thought	Remember
PS 331.2	Interpret the features of Medieval Political Thought, Idealism, Utilitarianism, Contractualist & Communism	Understand
PS 331.3	Critically Analyse the major theories of Western Political Thought	Analyse
PS 331.4	Understand Greek Political Thought and Modern Political Thought & its contribution to Political Science.	Understand
PS 331.5	Explore the Various theories associated with the origination of State, grounds of Authority and Political Obligation.	Apply
PS 331.6	Develop a basic understanding of modern political thought	Understand

Signature of the faculty

School of Liberal Arts and Sciences

Course Outcomes

Course Name: Spanish I

Course Code: SL 221

Year: 2019-20

Semester: Autumn

Faculty Name: Rishi Kumar

CO Number	**Course Outcome statement** At the completion of the course, student will be able to	**Taxonomy Level**
SL 221.1	Will be able to write and ask about self and have knowledge of numbers and gender in Spanish language.	Remember
SL 221.2	Will be able to know and use the three types of regular verbs in Spanish and make simple sentences.	Understand
SL 221.3	Will be able to describe class, room and his surrounding and make comparative and superlative sentences.	Apply
SL 221.4	Will be able to write simple paragraphs on topics like, family.	Apply
SL 221.5	Will be able to ask and tell time and be able to talk about day-to-day activity.	Remember
SL 221.6	Will be able to describe surrounding using prepositions of place and other vocabulary.	Remember

Signature of the faculty

School of Law

Course Outcomes

Course Name: **Accountancy – II (Business Statistics)**

Course Code: **AC 112**

Year: **2019-2020**

Semester: **Spring**

Faculty Name: **Dr. Anjali Sharma**

CO Number	Course Outcome Statement At the completion of the course, student will be able to:	Taxonomy Level
AC 112.1	Explain the basic concepts, scope, uses and misuses of statistics	Understand
AC 112.2	Assess the steps in the statistical process	Evaluate
AC 112.3	Analyse the correlation and regression methods for bivariate data	Analyse
AC 112.4	Calculate the measures of central tendency and dispersion	Apply
AC 112.5	Design a questionnaire to investigate issues and problems	Create
AC 112.6	State whether the statistical series is symmetrical or assymetrical	Remember

Signature of the Faculty

School of Law

Course Outcomes

Course Name: **Accountancy – IV (Cost Accounting)**

Course Code: **AC 212**

Year: **2019-2020**

Semester: **Spring**

Faculty Name: **Dr. Anjali Sharma**

CO Number	Course Outcome Statement At the completion of the course, student will be able to:	Taxonomy Level
AC 212.1	Explain the basic concepts of cost, costing, cost accounting and cost accountancy	Understand
AC 212.2	Analyse the cost accounting methods adopted by firms	Analyse
AC 212.3	Demonstrate cost accounting techniques with the help of illustrations	Apply
AC 212.4	Evaluate the elements of costing for preparing cost sheet	Evaluate
AC 212.5	Describe the methods of labour wage payment	Remember
AC 212.6	Design cost-sheet for a manufacturing firm	Create

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School of Law

Course Outcomes

Course Name: **Accountancy – VI (Auditing – II)**

Course Code: **AC 312**

Year: **2019-2020**

Semester: **Spring**

Faculty Name: **Dr. Anjali Sharma**

CO Number	Course Outcome Statement At the completion of the course, student will be able:	Taxonomy Level
AC 312.1	Discuss the qualification, disqualification, appointment, powers, duties and rights of auditor	Understand
AC 312.2	Analyse the facts, judgments and conclusion of audit cases	Analyse
AC 312.3	Examine the audit of final accounts of organisations	Apply
AC 312.4	Compare aspects of investigation and auditing	Evaluate
AC 312.5	Identify the recent trends in auditing	Remember
AC 312.6	Formulate qualified and unqualified audit reports	Create

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School of Law

Course Outcomes

Course Name: **Business Administration – II (Principles of Management)**

Course Code: **BA 112**

Year: **2019-2020**

Semester: **Spring**

Faculty Name: **Dr. Anjali Sharma**

CO Number	Course Outcome Statement At the completion of the course, student will be able to:	Taxonomy Level
BA 112.1	Explain the basic concepts, nature and significance of management	Understand
BA 112.2	Assess the processes of planning, organizing, directing and controlling	Evaluate
BA 112.3	Categorize organizations on the basis of structure	Analyse
BA 112.4	Examine the characteristics of motivation and leadership theories	Apply
BA 112.5	Design a business plan for a new venture	Create
BA 112.6	Describe the skills and roles of a manager in an organisation	Remember

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School of Law

Course Outcomes

Course Name: BADM-IV (Entrepreneurship Development)

Course Code: BA 212

Year: 2019-2020

Semester: Spring

Faculty Name: Kiran Tiwari

CO Number	Course Outcome Statement At the completion of the course, student will be able to understand	Taxonomy Level
BA 212.1	Students will be able to identify personal attributes that enable best use of entrepreneurial opportunities.	Remember
BA 212.2	Students will be able to understand the concept, basic principles of innovation and the importance of entrepreneurship as a tool for development.	Understand
BA 212.3	Students will be able to determine business opportunities and an in-depth understanding of what typically characterize success and failure.	Apply

. BA 212.4	Students will be able to choose the entrepreneurial leadership style and management style.	Analyse
BA 212.5	Students will be able to evaluate the capabilities, design business plans and skills necessary to assume entrepreneurial activity.	Evaluate
BA 212.6	Students will be able to implement theoretical knowledge acquired by designing a small virtual enterprise.	Create

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Course Outcomes

Course Name: BADM-VI (Organizational Behaviour)

Course Code: BA 312

Year: 2019-2020

Semester: Spring

Faculty Name: Kiran Tiwari

CO Number	Course Outcome Statement At the completion of the course, student will be able to understand	Taxonomy Level
BA 312.1	Students will be able to define the concept of organizational behaviour, identify personal dimensions of personality, perception and motivation.	Remember
BA 312.2	Students will be able to understand the implications of organizational behaviour on the process of management.	Understand
BA 312.3	Students will be able to apply organizational behaviour knowledge to diagnose and solve organizational problems.	Apply

BA 312.4	Students will be able to analyze individual human behavior at the workplace as influenced by personality, values, perception, and motivation.	Analyse
BA 312.5	Students will be able to evaluate various leadership styles and conflict management strategies used in organizations.	Evaluate
BA 312.6	Students will be able to develop creative and innovative ideas that could positively shape the organizations.	Create

School of Law

Course Outcomes

Course Name: **International Criminal Law**

Course Code: **CL612**

Year: **2019-20**

Semester: **Spring**

Faculty Name: **Dr. Parul Pareek**

CO Number	Course Outcome Statement At the completion of the course, student will be able to understand and explain -	Taxanomy Level
CL612.1	International Criminal Law: Definition, Nature and Scope, Origin of International Criminal Law and Human Rights Law, Individual Responsibility: Historical Development. Sources & Principles of International Criminal Law: International Customs and Value of Precedents, Treaties and Instruments Establishing International Tribunals, Principles of Law, International Criminal Law and Human Rights.	Apply
CL612.2	International Crimes: Genocide: Notion and elements, Genocide Convention (1948), Crimes against Humanity: Notion & its origin, The Perpetrators and the victims- Sexual violence and enslavement. War Crimes: Notions and its origins, grave breaches, war crimes in Non-International Armed conflicts, War crimes by Civilians, Violations of the Rules on the conduct of warfare. Aggression: Notions and its origins.	Analyse
CL612.3	Concept of Responsibility, Commission; Aiding and abetting / joint criminal enterprise: Planning, Ordering- Superior responsibility: Exclusion of Criminal liability-Justification-Self defence, Excuses.	Remember
CL612.4	Jurisdictional & procedural issues, State Cooperation - Surrender & arrests, Relations between International Tribunals and Domestic	Evaluate

	Courts, Interstate relations, Trial procedures, The future of International Criminal Law- Amnesties, alternative forms of justice and new trends in International Criminal Law. Prisoners of War (POW) Torture: Overview-The practice & prohibition, its elements and necessity? Piracy & Terrorism: Notions and its origins, Outlawing terrorist acts, Terrorists and International Humanitarian law.	
CL612.5	International Criminal Tribunals: Ad Hoc Tribunals and Hybrid Courts: ICTY, ICTR, Special Court for Sierra Leone, Extraordinary Chambers in the Courts of Cambodia, International Criminal Court: Rome Statute, UN SC referrals and self-referrals, Universal Jurisdiction, Immunities: Belgium's 1993 universal jurisdiction law, ICJ: Principles of Universal Jurisdiction.	Understand
CL612.6	National prosecution of international crimes, National cooperation and national implementation: Germany and The New German Code of Crimes against International Law, The prosecution of international crimes under Australian law.	Create

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School of Law

Course Outcomes

Course Name: **Victimology**

Course Code: **CL622**

Year: **2019-20**

Semester: **Spring**

Faculty Name: **Dr. Aseem Chandra Paliwal**

CO Number	**Course Outcome Statement** **At the completion of the course, student will be able to understand**	**Taxanomy Level**
CL622.1	Definition, Nature, Concept, Scope, Relationship with Criminology and Penology, Types of Victims Historical comparative Perspective: USA, U.K., France, Germany, Sweden, Australia, Japan etc and in India. Victimology and Human Rights, Impact of Victimisation	Apply
CL622.2	Malimath Committee and Victimology, Justice J.S. Verma Committee Report (2013)	Analyse
CL622.3	Legislative Frame Work related to Victimology and Cr.P.C. (Sec. 125), Concept of Compensation (Sec.357, 357A, 357B, 357C), Rehabilitation and Resettlement Provisions; Related Provisions of I.P.C.	Remember
CL622.4	Institutional Frame Work about Victimology and Role of Judiciary; Role of National Human Rights Commission and U.N. Amnesty International	Evaluate
CL622.5	Rehabilitation and Resettlement Programmes in other Statutes (a) The Protection of Women from Domestic Violence Act, 2005 (b) The Hindu Marriage Act, 1955, (Sec. 24 to 27) (c) The Scheduled Tribes & Forest Dwellers (Recognition of Forest Rights) Act 2005 (d) The Sexual Harassment of Women at Work Place	Understand

	(Prevention, Prohibition and Redressal Act, 2013	
CL622.6	Theories of Victimology, Victim Precipitation, Routine Activities, Penal Couple and Consumer Victims Theories; Concept of Restorative Justice; Victim and Police	Create

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School of Law

Course Outcomes

Course Name: **Criminology and Criminal Justice Administration**

Course Code: **CL632**

Year: **2019-20**

Semester: **Spring**

Faculty Name: **Dr. Aseem Chandra Paliwal**

CO Number	**Course Outcome Statement** **At the completion of the course, student will be able to understand**	**Taxanomy Level**
CL632.1	Knowledge about Criminology, Meaning; Origin; Scope and Development; Approaches to Criminology; Importance of the Study of Criminology; Theories of Criminology and in Criminal Law: Meaning; Development; Fundamental Principles; Objective or Purpose	Apply
CL632.2	Concept of Crime: Meaning; Characteristics; Essential Elements; Parties; Distinction between Crime, Sin, Morality, Ethics and other related concepts; Classification of Crime. Theories of Crime: Modern Labeling Theory; Social Reaction Theory; Conflict Theory; Sociological Theory; Preventive Theory. Crime Trends: Crimes in India and abroad; Crimes under special and local law; Crimes against person; Crimes against property; Crimes against weaker section with special reference to women and children.	Analyse
CL632.3	Criminal Justice System: Meaning, Purpose and Social Relevance; Historical evolution – overview of Criminal Justice System: National and International Perspective; Accusatorial and Inquisitorial Systems of Criminal Justice System; Coordination in Criminal Justice System. Contemporary Forms of Crime: White Collar Crimes; Organized Crimes; Terrorism; Cyber Crimes; Environmental Crimes.	Remember
CL632.4	Police System: Origin and Development of Police System; Principles of Policing; Functions of Police; Police Organization in India; Police-Public Co-operation; Police Reforms and Modernization. Prison System: Historical development of Prisons; Objectives of	Evaluate

	Imprisonment; Legal framework of the Prison System in India; Prison Organization in India; Prison Reforms and Modernization of Prisons.	
CL632.5	Judicial System: Importance of Judicial System in Modern Societies; Judicial Organization in India; Salient features of Indian Judicial System: Independence, Public Trial and Fair Trial; Fundamental Elements in Judicial Functioning: Due Process, Speedy Trials and Access to Justice; Judicial Administration: Modernization and Reforms in the Justice Administration.	Understand
CL632.6	School of Criminology: Pre-Classical School; Classical School; Neo Classical School; Positivist School; Clinical School; Sociological School Prosecution System- Meaning, Purpose and Relevance; Need for Independent Prosecution Agency; Prosecution Organization in the State; Relationship between Police and Prosecution; Prosecution in Lower Court and Prosecution in Appellate Court	Create

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School of Law

Course Outcomes

Course Name: **English and Legal Language**

Course Code: EG 112

Year: 2019-20

Semester: Spring

Faculty Name: Mr. Vinay Tiwari/ Ms. Megha Middha

CO Number	**Course Outcome statement** At the completion of the course, student will be able to	**Taxonomy Level**
EG112.1	Analyze the essays “of Studies” “Of Revenge” and “Indian Juggler” by Francis Bacon in regard to their learnings, wisdom and philosophy of life while comparing them with present scenario and context. Also they will learn legal maxims .	Remember
EG 112.2	Understand the essential components required to improve the communication and understand the barriers of Communicative English	Understand
EG 112.3	They will understand the applicability of legal maxims and articles.	Apply
EG 112.4	Analyze the essays “Dream Children and “The Spectator Club” by Charles lamb and Richard Steele respectively in regard to their learnings, wisdom and philosophy of life.	Analyse
EG 112.5	Evaluate the essays “The Art of Public Speaking and The Art of Writing” respectively by Lord Riddel and Sir J.C. Squirein regard to their arguments, facts, philosophy and wisdom	Evaluate
EG 112.6	They will be able to draft good research articles.	Create

Signature of the faculty

School of Liberal Arts & Sciences

Course Outcomes

Course Name: **French-II (Certificate of Proficiency- French)**

Course Code: **FL 222**

Year: **2019-2020**

Semester: **Spring**

Faculty Name: **Mr. Amit Srivastava**

CO Number	**Course Outcome statement** At the completion of the course, student will be able to	**Taxonomy Level**
FL 222.1	The student will have learnt Les articles contractés and preposition. seasons, weather and ordinal numbers and cardinal numbers.	Evaluate
FL 222.2	The student will have learnt the conjugation of verbs in 'ir'-ending 'finir', er –ending verb visiter in present tense in affirmative, negative and interrogative form.	Create
FL 222.3	The student will learn about daily life conversation in different situations.	Analyse
FL 222.4	The student will learn about Conjugation of regular and irregular verbs : acheter , chanter, choisir , grandir, aller, dire etc Introduction of imparfait, future proche, passé récent, future simple.	Apply
FL 222.5	The student will learn about Demonstrative adjectives and the description of a classroom dialogue and dictation.	Understand

FL 222.6	The student will learn the formation of verbs in (affirmative, negative and interrogative), Possessive adjectives , family description. France: Regions, famous monuments, gastronomy and beverages.	Remember

Signature of the faculty

School of Liberal Arts/ School of Science

Course Outcomes

Course Name: German-II

Course Code: GL 222

Year: 2019-20

Semester: Spring

Faculty Name: Vinay Kumar Tiwari

CO Number	**Course Outcome statement** At the completion of the course, student will be able to	**Taxonomy Level**
GL 222.1	Create Interrogative (With the help of Interrogative Pronouns and Helping Verbs), Negative and Imperative Sentences & Composite words such as wovon, woraus, womit etc. in German,	Create
GL 222.2	Understand the Dative Case and related sentences and their importance in German language and conjugation of irregular verbs, Understand Personal, Possessive, Reflexive Pronouns and Reflexive Verbs, Understand Personal, Possessive, Reflexive Pronouns and Reflexive Verbs.	Understand
GL 222.3	Apply Accusative, Dative and Changeable Prepositions in German sentences.	Apply
GL 222.4	Understand Genitive Case and its sentence structure in respect of possessive pronouns and definite & indefinite pronouns, cracking the meaning of important words from the paragraphs.	Understand
GL 222.5	Apply Perfekt Tense in Daily use such as “What have you done on last Sunday, writing daily routine in Perfekt Sentences, and describing what have you done in your summer vacation) and use *Perfekt Tense* and its helping verbs in flawless manner	Apply
GL 222.6	Create small messages and paragraphs about general topics and translating them into German and English.	Create

Signature of the faculty

Vinay Kumar Tiwari

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Course Outcomes

Course Name: **Japanese II**

Course Code: **JL 222**

Year: 2019-20

Semester: Spring

Faculty Name: Dr. Ashok Singh Rathore

CO Number	**Course Outcome statement** At the completion of the course, student will be able to	**Taxonomy Level**
JL 222.1	Students are able to understand various cultural and lifestyle related phenomenon of Japan like, furin, sunddare, semi, mugicha, uchiwa, lucky charm. Takayama, Japanese bath etc.	Understand
JL 222.2	Students are able to express sentences related to quality of the noun in past and non-past tense too, two adjectives for a noun etc.	Evaluate
JL 222.3	Students are able to convert verbs in past and express sentences related to past tense, also able to use some polite forms and Particles like as 'o' 'e' 'ni'.	Apply
JL 222.4	Students able to express essential Japanese expressions for daily use and use of noun with number and "counters"	Rember
JL 222.5	Students are able to do Translation from Japanese to English and English to Japanese of basic level. Students also able to Reads lessons, poem, short dialogue useful for daily conversation	Creat
JL 222.6	Students are able to Solve short unseen passages and practice advance 'kanji' and Students ability of Listening a conversation related to daily life will enriched	Analysis

Signature of the faculty

MODY UNIVERSITY OF SCIENCE AND TECHNOLOGY

School of Law

Course Outcomes

Course Name: Economics-II (Macroeconomics)

Course Code: LE 112

Year: Spring

Semester: 2019-2020

Faculty Name: Kiran Tiwari

CO Number	Course Outcome Statement At the completion of the course, student will be able to understand	Taxonomy Level
LE 112.1	Students will be able to define the concept of macroeconomics, inflation, GDP, Business cycle and economic growth.	Remember
LE 112.2	Students will be able to explain the concepts of macroeconomics, policies, theories, models, and analytical methods in macroeconomics	Understand
LE 112.3	Students will be able to identify and solve economic problems, assess results and determine alternative courses of action using various economic tools.	Apply

LE 112.4	Students will be able to analyse the concepts of gross domestic product, inflation, unemployment and how they are measured.	Analyse
LE 112.5	Students will be able to evaluate the circular flow of income model and use the concepts of aggregate demand and aggregate supply to analyze the response of the economy.	Evaluate
LE 112.6	Students will be able to construct the aggregate demand and aggregate supply model of the macro economy and use it to illustrate macroeconomic problems and possible fiscal policy and monetary policy solutions.	Create

School of Law

Course Outcomes

Course Name: **Law of contract – II**

Course Code: **LF 112**

Year: **2019-2020**

Semester: **Spring**

Faculty Name: **Mr. Vikram Sharma**

CO Number	Course Outcome Statement At the completion of the course, student will be able to:	Taxonomy Level
LF 112.1	The difference between general principles of Contract and E-Contracts.	Understand
LF 112.2	The provisions of legislation relating to SRA,1963 with respect to Law of Contract.	Evaluate
LF 112.3	The role of the State in regulating freedom of contract in order to understand the need for such interference.	Analyze
LF 112.4	Contractual knowledge and provisions in the case laws and related facts.	Apply
LF 112.5	Argument advanced and that can be applied in the field of contracts.	Create
LF 112.6	The general provisions and exceptions therein with respect to the Law of Contract and its effect thereof.	Remember

Signature of the Faculty

School of Law

Course Outcomes

Course Name: Law of Consumer Protection and Motor Vehicles Act, 1988

Course Code: LF 122

Year: 2019-2020

Semester: Spring

Faculty Name: Ms. Pooja Singh

CO Number	**Course Outcome statement** At the completion of the course, student will be able to	**Taxonomy Level**
LF 122.1	Explain the concept of consumer sovereignty and the need for consumer protection	Understand
LF 122.2	Define the term consumer, consumer dispute, complaint, complainant, unfair and restrictive trade practice	Remember
LF 122.3	Determine the objective, composition and procedure of district, state and central consumer council	Apply
LF 122.4	Assess the efforts made by the executive for consumer protection	Evaluate
LF 122.5	Analyze the establishment, procedure and performance of the consumer dispute redressal agencies	Analyze
LF 122.6	Derive the insurer's liability in case of motor vehicle accident and subsequent award of compensation	Create

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School of Law

Course Outcomes

Course Name: **Constitutional Law - II**

Course Code: **LF 212**

Year: **2019-2020**

Semester: **Spring**

Faculty Name: **Mr. Vikram Sharma**

CO Number	**Course Outcome Statement At the completion of the course, student will be able to:**	**Taxonomy Level**
LF 212.1	Learn about your basic rights.	Understand
LF 212.2	Fundamental rights for individual	Evaluate
LF 212.3	Understand the meaning, importance, origin and development of Fundamental Rights	Analyse
LF 212.4	Know how courts have interpreted these rights	Apply
LF 212.5	Discuss hand in hand the basic laws which are instrumental for the governance of Nation	Create
LF 212.6	To meet the needs of contemporary requirements of Bar, Bench and Industry in the globalised economic era.	Remember

Signature of the Faculty

School of Law

Course Outcomes

Course Name: **Law of Crimes II**

Course Code: **LF 222**

Year: **2019-2020**

Semester: **Spring**

Faculty Name: **Dr. Parul Pareek**

CO Number	Course Outcome Statement At the completion of the course, student will be able to understand	Taxonomy Level
LF 222.1	Identify the elements of crime in given factual situations entailing culpability	Remember
LF 222.2	Explain the main provisions under Indian Penal Code, 1860	Understand
LF 222.3	Distinguish various concepts and offences under Indian Penal Code,1860	Analyze
LF 222.4	Conceptually explain and apply the fundamentals of criminal law and various offences described in Indian Penal Code.	Apply
LF 222.5	Critically evaluate multiple and contrasting perspectives on criminal law	Evaluate
LF 222.6	To put in practices the acquired knowledge into their research on contemporary criminal law issues.	Create

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School of Law

Course Outcomes

Course Name: Interpretation of Statutes

Course Code: LF 232

Year: 2019-2020

Semester: Spring

Faculty Name: Ms. Pooja Singh

CO Number	**Course Outcome statement** At the completion of the course, student will be able to	**Taxonomy Level**
LF 232.1	Define the term interpretation of statutes and list the different types of interpretation and statutes	Remember
LF 232.2	Explain and differentiate between the internal and external aids to interpretation of statutes	Understand
LF 232.3	Assess the literal, golden, mischief and harmonious rule of statutory interpretation	Evaluate
LF 232.4	Illustrate the various subsidiary rules of interpretation of statutes	Analyze
LF 232.5	Formulate the various rules for the interpretation of the Constitution of India	Create
LF 232.6	Describe interpretation with respect to the subject matter and the purpose of statutes	Remember

Signature of the faculty

School of Law

Course Outcomes

Course Name: Research Methodology

Course Code: LF 242

Year: 2020

Semester: Spring

Faculty Name: Sangeeta Jakhar

CO Number	Course Outcome Statement At the completion of the course, student will be able to understand	Taxonomy Level
LF 242.1	To Understand the different types of research and their applicability in conducting different kinds of study.	Remember
LF 242.2	To understand the different techniques of sampling and other methods and how to apply them in conducting research.	Understand
LF 242.3	Understanding level can be analysed on how the students differentiated primary and secondary sources of data with the importance of these sources.	Analyse
LF 242.4	They are able to apply different methods of research in research methodology in conducting their different kinds of research.	Apply
LF 242.5	How properly the footnoting patterns are applied in conducting any kind of study.	Evaluate
LF 242.6	They are able to make and design various kinds of Articles, research papers, assignments, questionnaires etc. with proper footnotes.	Create

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Course Outcomes

Course Name: **Women and Criminal Law**

Course Code: **LF 272**

Year: **2020-21**

Semester: **spring**

Faculty Name: **Shrawani Shagun**

CO Number	Course Outcome Statement At the completion of the course, student will be able to understand	Taxanomy Level
LF272.1	They can explain the position of women during Vedic, Post Vedic and Medieval period	Remember
LF272.2	They can understand the contemporary status of women and may relate with the position of women under Indian Constitution	Analyse
LF272.3	They have the conceptual understanding different Acts related to women like Domestic Violence Act, Dowry prohibition Act etc.	Understand
LF272.4	They are able to understand and analyse situation of existing criminal laws to protect women and the legal lacunas present	Evaluate
LF272.5	They have thorough understanding legal nuances to protect women from the destitution and welfare provisions regarding maintenance of women	Apply
LF 272.6	They have the understanding of the concepts of recent legal	Create

	development through judicial decisions	

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School of Law

Course Outcomes

Course Name: **Jurisprudence II**

Course Code: **LF 312**

Year: **2019-2020**

Semester: **Spring**

Faculty Name: **Dr. Parul Pareek**

CO Number	Course Outcome Statement At the completion of the course, student will be able to understand	Taxonomy Level
LF 312.1	Understand the foundations of theoretical knowledge	Understand
LF 312.2	To introduce to students the jurisprudential analysis of certain concepts in the field of Law.	Remember
LF 312.3	Engage in identification, articulation and critical evaluation of legal theory and the implications for policy.	Create
LF 312.4	to examine, interpret and evaluate basic legal texts and to develop awareness of integrity, justice and ethics.	Evaluate
LF 312.5	To analyse the development of the legal system	Analyze
LF 312.6	To apply practical skills on theoretical propositions	Apply

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School of Law

Course Outcomes

Course Name: Labour Law-II

Course Code: LF 322

Year: 2019-2020

Semester: Spring

Faculty Name: Megha Middha

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
LF 322.1	Understanding the need of Minimum Wages Act. Analysing and looking into the application of the provisions of the Act.	Remember
LF 322.2	Understand the Factories Act, 1948	Understand
LF 322.3	Analysing the various provisions of labour law and evaluating it by practically visiting a factory/industry and then differentiate the practicality with the laws actually enacted.	Apply
LF 322.4	Analyse the various provisions for the health and safety of the workers and welfare of the workers.	Analyse
LF 322.5	Understand the importance of Maternity Benefit Act and analyse and evaluate the various provisions of the Act.	Evaluate
LF 322.6	Understanding the concept and importance of Employee' State Insurance Act, 1948. They will be able to calculate the gratuity period etc.	Create

Signature of the faculty

School of Law

Course Outcomes

Course Name: Family law II

Course Code: LF 332

Year: 2019-2020

Semester: Spring

Faculty Name: Navna Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
LF332.1	In addition the students have to familiarize themselves with the provisions of the Indian Succession Act.	Remember
LF332.2	Students studying family law learn about concepts like Succession, Inheritance under Hindu and Muslim Laws.	Understand
LF332.3	Students will gain skills of thinking, analysis, written and verbal presentation of ideas of argument related to succession, guardianship, adoption and maintenance.	Apply
LF332.4	Examines and compares personal laws	Analyses
LF332.5	To evaluate the need of Uniform Civil code	Evaluate
LF332.6	Able to draft application for maintenance, guardianship and petition their share under inheritance.	Create

Signature of the faculty

School of Law

Course Outcomes

Course Name: Company Law-II

Course Code: LF 352

Year: 2019-2020

Semester: Spring

Faculty Name: Ms. Pooja Singh

CO Number	**Course Outcome statement** At the completion of the course, student will be able to	**Taxonomy Level**
LF 352.1	Describe the appointment, powers, liabilities and legal position of directors with respect to a company	Remember
LF 352.2	Assess the performance of a company by judging its shareholder base and borrowings made by the company	Evaluate
LF 352.3	Explain the different types of meetings held in a company and the different types of resolutions passed	Understand
LF 352.4	Analyze the performance of the company by investigating into its affairs	Analyze
LF 352.5	Describe and differentiate between the various modes of winding up of a company	Understand
LF 352.6	Create and design various negotiable instruments on the basis of the Negotiable Instruments Act, 1881	Create

Signature of the faculty

School of Law

Course Outcomes

Course Name: **Environmental law**

Course Code: **LF412**

Year: **2019-20**

Semester: **spring**

Faculty Name: **Archana Kumari**

CO Number	Course Outcome Statement At the completion of the course, student will be able to understand	Taxonomy Level
LF 412.1	They can explain the Indian environmental ethics and sources of environmental pollution and also various international environment declarations.	Understand
LF 412.2	They are able to explain the various Acts including EPA, 1986 regarding environment conservation.	analyze
LF 412.3	They are able to apply various principles that would benefit the environmental cases in India.	Apply
LF 412.4	They are able to explain the constitutional provisions that provides for the right to have a green environment and also the role played by Indian judiciary in protecting environmental issues in India.	create
LF 412.5	They are able to explain the Environment impact Assessment Rules, 2006 and also its benefits on environment.	remember
LF 412.6	They are able to explain the causes and effects of greenhouse gases on environment and also its remedies.	evaluate

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School of Law

Course Outcomes

Course Name: Civil Procedure Code- II

Course Code: LF 422

Year: 2019-2020

Semester: Spring

Faculty Name: Navna Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
LF422.1	Know the detail procedure for redressal of civil rights with reference to limitation laws.	Remember
LF422.2	Understand, where the suit is to be filed? The essential forms and procedure for institution of suit, the documents in support and against, evidence taking and trial, dimensions of an interim order, the peculiar nature of the suits, the complexities of executing a decree and provisions for appeal and revision are all matters which a lawyer for any side is to be familiar with.	Understand
LF422.3	to have good grounding in the subject before one enters the profession	Apply
LF422.4	To analyze the procedure of bail, judgment and appeal.	Analyze
LF422.5	Evaluate the procedure and rules of civil courts and rules of limitations in civil cases.	Evaluate
LF422.6	To draft bail applications and various petitions.	Create

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School of Law

Course Outcomes

Course Name: **Criminal procedure Code**

Course Code: **LF 432**

Year: **2019-20**

Semester: **Spring**

Faculty Name: **Dr Aseem Chandra Paliwal**

CO Number	Course Outcome Statement At the completion of the course, student will be able to understand	Taxanomy Level
LF 432.1	Identify the stages and procedure of Session Trial, Warrant Trial- Cases Initiated upon a Police Report, Cases Initiated otherwise than on a Police Report and Conclusion, Summons Trial by Magistrate, Summary Trial in criminal cases.	Apply
LF 432.2	A general overall view Object, Meaning and Scope, Content of Judgment in Sessions and Warrant Cases.	Analyse
LF 432.3	Employ and promote adoption of humane and just practices in administration of criminal justice	Remember
LF 432.4	Analyze the provisions relating to Appeal, Revision and Reference in CrPC.	Evaluate
LF 432.5	To let understand the Miscellaneous Provisions such as Limitations for taking Cognizance of Offences, Irregular Proceedings and Effects thereof, Inherent Powers of the High Court, Rule of Double Jeopardy, Pardon to an Accomplice.	Understand
LF 432.6	The students will also undertake the study of two cognate Acts	Create

	as a part of this course Viz,; Juvenile justice Act and Probation of offenders Act. In additions the course teacher shall endeavor to familiarise the students with the case paper like FIR, Police statement, charge sheet, etc.	

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School of Law

Course Outcomes

Course Name: **Public International Law-II**

Course Code: **LF 442**

Year: **IV Year**

Semester: **VIIIth Semester**

Faculty Name: **Shrawani Shagun**

CO Number	Course Outcome Statement At the completion of the course, student will be able to understand	Taxanomy Level
LF 442.1	They can explain the law of Warfare	Remember
LF 442.2	They can understand the peaceful and forcible methods of settlement of international disputes	Analyse & Apply
LF 442.3	They have the conceptual understanding of functioning of the specialized agencies of the United Nations	Understand
LF 442.4	They are able to understand structure of the United Nations , its Organs, function , power and duties	Analyse & Evaluate
LF 442.5	They have thorough understanding of composition of Security council, Veto and double veto power	Understand & Remember
LF 442.6	They have the understanding of the concepts of International	Understand

	Humanitarian Law	

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School of Law

Course Outcome

Course Name: **Administrative Law**

Course Code: **LF 482**

Year: **2020**

Semester: **Spring**

Faculty Name: **Sangeeta Jakhar**

CO Number	**Course Outcome Statement At the completion of the course, student will be able to understand**	**Taxanomy Level**
LF 482.1	To Understand the basic principles of Administrative Law and Natural Justice and to understand their applicability in different kinds of proceedings.	Remember
LF 482.2	To understand the functioning of administrative authorities.	Understand
LF 482.3	To analyse what extent discretion is given to the administrative authorities and to analyze it by cases laws.	Analyse
LF 482.4	Agencies which keeps a check or control over the functioning of administrative authorities.	Apply
LF 482.5	To Know and evaluate about the informal methods for settlement of administrative disputes. To know the relevance of Lokpal and CVC in combating the corruption practices.	Evaluate
LF 482.6	To create assignments on relevant topics on intellectual property rights.	Create

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School of Law

Course Outcomes

Course Name: Law of taxation II

Course Code: LF 492

Year: 2019-20

Semester: Spring

Faculty Name: Archana Kumari

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
LF492.1	They can explain the difference between direct and indirect taxes with their different nature.	Understand
LF492.2	They are able to explain the various constitutional framework for the distribution of taxes between centre and states.	remember
LF492.3	They are able to know about the corporate taxes in India and also about cess, surcharge, DDT and Mat.	Apply
LF492.4	They are able to apply the constitutional provisions that provides for the implementation of GST and GST council.	evaluate
LF492.5	They are able to explain various slabs for gst in india and the role of states and union in it.	create
LF492.6	They are able to explain about International taxation .	analyze

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School of Law

Course Outcomes

Course Name: Professional Ethics and Professional Accounting System

Course Code: LF 512

Year: 2019-2020

Semester: Spring

Faculty Name: Megha Middha

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
LF 512.1	Understand the importance of the duties of advocates and the importance of dress code in the profession.	Remember
LF 512.2	Understand the need and meaning of professional ethics for layer, judges.	Understand
LF 512.3	Know the punishment for misconduct and contempt and analyse if the same requires any change. Also able to apply and see through the various judgments and instances how contempt is considered committed.	Apply
LF 512.4	Differentiate and analyse between the civil and criminal contempt of court. Evaluate and analyse with the help of various case laws the contempt of court.	Analyse
LF 512.5	Understanding and Evaluating the bar bench relationship.	Evaluate
LF 512.6	Understand the disciplinary proceedings of the State Bar Council and Bar Council of India. Also they will be able to draft and look into the minute details of the ethics in the court.	Create

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School of Law

Course Outcomes

Course Name: Alternate Dispute Resolution

Course Code: LF 522

Year: 2019-2020

Semester: Spring

Faculty Name: Megha Middha

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
LF 522.1	Know the role of Lok Adalats and Legal Services Authority Act, 1987.	Remember
LF 522.2	Understand the difference between arbitration, mediation, conciliation and negotiation.	Understand
LF 522.3	Understanding the concept of arbitration agreements and its applicability.	Apply
LF 522.4	Analyse the need of arbitration and how it has advantage over court proceedings.	Analyse
LF 522.5	Evaluating arbitral awards, settlement agreements and how arbitration process varies from conciliation process.	Evaluate
LF 522.6	Analyse and evaluate the role of ADR in various sectors. Also they will be able to draft the case reviews.	Create

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School of Liberal Arts/ School of Science

Course Outcomes

Course Name: Drafting Pleadings and Conveyancing

Course Code: LF 532

Year: 2019-2020

Semester: Spring

Faculty Name: Navna Singh

CO Number	**Course Outcome statement** At the completion of the course, student will be able to	**Taxonomy Level**
LF532.1	Learn the basic rules of drafting and pleadings.	Remember
LF532.2	Recognize the way to move to the criminal justice system with aid of various complaints.	Understand
LF532.3	Apply legal drafting skills and understand the practical aspect of registration of such documents.	Apply
LF532.4	Analyze and define the concept of Pleading and various rules of pleading and able to handle the client during the course of interaction.	Analyse
LF532.5	Articulate the argumentation process and apply the legal drafting abilities during the appearances before Court and Tribunals.	Evaluate
LF532.6	Identify and discuss the various forms of conveyancing deed such as sale deed, gift, mortgage etc.	Create

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School of Law

Course Outcomes

Course Name: **Seminar II**

Course Code: **LF 542**

Year: **2020-21**

Semester: **Spring**

Faculty Name: **Shrawani Shagun**

CO Number	Course Outcome Statement At the completion of the course, student will be able to understand	Taxanomy Level
LF 542.1	Students will demonstrate the ability to identify the disciplinary context for different kinds of writing, including both informal writing (like scientific note taking) and formal writing (like a research paper in Government).	Remember
LF 542.2	Students will demonstrate the ability to distinguish opinions and beliefs from researched claims and evidence and recognize that kinds of evidence will vary from subject to subject. For instance, some fields call for quantitative support while others work more commonly with quoted, textual evidence	Analyze
LF 542.3	Students will demonstrate the ability to ask disciplinarily appropriate questions of the material and recognize when lines of inquiry fall outside of disciplinary boundaries.	Understand

LF 542.4	Students will demonstrate the ability to offer compelling, articulate oral arguments, showing an understanding of the unique demands of oral presentation as opposed to writing.	Evaluate
LF 542.5	Students will demonstrate the ability to follow discussions, oral arguments, and presentations, noting main points or evidence and tracking threads through different comments. Further, students will be able to challenge and offer substantive replies to others' arguments, comments, and questions, while remaining sensitive to the original speaker and the classroom audience.	Apply
LF 542.6	Students will be able to reach across diverse disciplines to apply theories, methods and knowledge bases from multiple fields to a single question or problem. They will be able to integrate schools of thought from several established fields into their discussion of a topic in order to show a well-rounded understanding. There will be opportunities for developing ideas through creative work.	Create

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Course Outcome

Course Name: **Moot-Court and Internship**

Course Code: **LF 552**

Year: **2020**

Semester: **Spring**

Faculty Name: **Sangeeta Jakhar/ Megha Middha**

CO Number	Course Outcome Statement At the completion of the course, student will be able to understand	Taxonomy Level
LF 552.1	To know their overall legal knowledge.	Remember
LF 552.2	Acquire skill in advocacy, legal research and writing skills.	Understand
LF 552.3	Enhance analytical as well as critical thinking of Students over interesting and contemporary legal issues.	Analyse
LF 552.4	Gain interest in advocacy and competence as an advocate.	Apply
LF 552.5	Evaluate the argumentative skill of the students.	Evaluate
LF 552.6	Demonstrate a thorough and contextual knowledge of the various laws particularly in its application to real and hypothetical legal problems.	Create

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School of Law

Course Outcomes

Course Name: Law and Justice in a Globalising World

Course Code: LF 612

Year: 2019-2020

Semester: Spring

Faculty Name: Megha Middha

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
LF 612.1	Understand the laws related to weaker sections and analyzing it with the laws of different countries.	Remember
LF 612.2	Understand the concept of equality , law in respect to regionalism, equality in matters of employment.	Understand
LF 612.3	Understanding the various reforms that have taken place in various fields like family law, agrarian reforms, environmental protection etc.	Apply
LF 612.4	Understand and analyse the role of law with the social change, analyse how the reformation of law has taken place, the analysis and understanding of law with the religion.	Analyse
LF 612.5	Evaluate the role of language, caste etc. and also understand various concepts like protective discrimination etc.	Evaluate
LF 612.6	Understanding and analyzing various reforms like Lok Adalt, other ADR , etc. Also able to create what more reforms could be brought into.	Create

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Course Outcomes

Course Name: **Gender Justice and Law**

Course Code: **LF 100**

Year: **2020-21**

Semester: **spring**

Faculty Name: **Shrawani Shagun**

CO Number	Course Outcome Statement At the completion of the course, student will be able to understand	Taxanomy Level
LF 100.1	They have understanding about the historical development of Position of women in Vedic, Post Vedic and Medieval Period	Remember
LF 100.2	They are able to differentiate between status of women and its progress post independence.	Analyze
LF 100.3	They are able to know the various rights and duties as enshrined under the Constitution of India	Understand
LF 100.4	They are able to understand and analyse rationale behind the need of Protection of woman against Domestic Violence Act,2005 and Dowry (Prohibition) Act, 1960 and the trafficking of women through the understanding of Immoral Traffic (Prevention) Act,1956	Evaluate
LF 100.5	Students have a brief idea of the various criminal laws	Apply

	regulating and protecting rights of women (the provisions of Cr.P.C and IPC), wherein they understand the aspects of arrest of women, rape, abduction etc.	
LF 100.6	They develop the understanding of Role of Statutory Bodies- National Commission for Women, State Commission of women, free legal aid for women, the laws relating to prevention of child marriage and Indecent Representation of Women (Prohibition) Act, 1986. Also able to create the Law assignments and projects.	Create

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School of Law

Course Outcomes

Course Name: Sociology-II

Course Code: LS 122

Year: First

Semester: Spring

Faculty Name: DR. RAMESH CHANDRA NAYAK

CO Number	**Course Outcome statement** At the completion of the course, student will be able to	**Taxonomy Level**
LS 122.1	Society, Community, Association and Institution-Meaning, Definitions, characteristics and differences	Understand
LS 122.2	Concept and Characteristics of social group, Types- Primary Group and Secondary Group, In- Group and Out- Group, Reference group	Remember
LS 122.3	Concept, characteristics and types of Status and Role, Concepts related to status and role	Apply
LS 122.4	Concept, characteristics of Culture, The theory of cultural lag, relationship between Culture and Civilization	Remember
LS 122.5	Concept and Characteristics, Theories of social change	Understand
LS 122.6	Evolutionary, Conflict, Cyclical, Functionalist and deterministic	Understand

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School of Law

Course Outcomes

Course Name: Political Science - II (Indian Political Thought)

Course Code: PL 112

Year: 2019-2020

Semester: Spring

Faculty Name: Dr. K.S. Pareek

CO Number	**Course Outcome statement** At the completion of the course, student will be able to	**Taxonomy Level**
PL 112.1	Trace the evolution of Indian political thought in ancient and Modern times	Remember
PL 112.2	Aanalyse the theory of Ancient & Modern political thought of India	Analyse
PL 112.3	Understand the ancient and modern thought in relation to contemporary times.	Understand
PL 112.4	Know the importance of the ideology of Indian Politics Thought.	Remember
PL 112.5	Compare the ideology given by different Indian Political Thinkers	Evaluate
PL 112.6	Examine the theories and concepts applicable in Indian Politics.	Apply

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Course Outcomes

Course Name: Political Science - IV (Comparative Government & Politics-II)

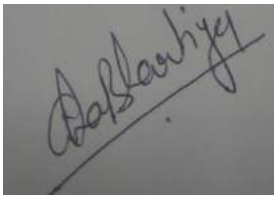
Course Code: PL 212

Year: 2019-2020

Semester: Spring

Faculty Name: Dr. Neha Bhartiya

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PL212.1	Discuss the features of Federal, Parliamentary, Presidential political system	Understand
PL212.2	Compare the Executive; Legislature; the Judiciary of various countries	Evaluate
PL212.3	Identify different functions of the government under different systems	Remember
PL212.4	Compare the political system of five countries with India	Evaluate
PL212.5	Define recent and contemporary practices in the functioning of government	Remember
PL212.6	Analyse different models of Judiciary, legislature & Executive	Analyse



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School of Law

Course Outcomes

Course Name: Political Science- VI (International Relations)

Course Code: PL 312

Year: 2019-2020

Semester: Spring

Faculty Name: Dr. Neha Bhartiya

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PL 312.1	Explain scope and subject matter of International Relations as an autonomous Academic discipline.	Understand
PL 312.2	Analyse Approaches and methods to study the discipline through Political realism, Pluralism and Worlds system's Model.	Analyse
PL 312.3	Discuss the India's Nuclear policy and various treaties concerning India's Nuclear option.	Understand
PL 312.4	Evaluate the post war developments through the emergence of Cold War & Third world	Evaluate
PL 312.5	Define dynamic nature of International relations and importance of having a systematic framework in order to evaluate issues in world politics.	Remember
PL 312.6	Explore contemporary scenario of foreign relations among the major countries of the world and the role of Regional Organizations in it.	Apply

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School of Liberal Arts and Sciences

Course Outcomes

Course Name: Spanish II

Course Code: SL 222

Year: 2019-20

Semester: Spring

Faculty Name: Rishi Kumar

CO Number	**Course Outcome statement** At the completion of the course, student will be able to	**Taxonomy Level**
SL 222.1	use irregular and reflexive verbs.	Analyse
SL 222.2	list and recall nouns and adjectives related to physical description.	Remember
SL 222.3	compose an individual's description.	Create
SL 222.4	interpret and apply the likes, dislikes and self-information.	Evaluate
SL 222.5	describe, discuss and understand about Hispanic Countries	Understand
SL 222.6	compose short compositions on the given topic	Apply

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Course Outcomes

Course Name: Biophysics

Course Code: BP 132

Year: I

Semester: 2nd

Faculty Name: Dr. Neha Vyas

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BP 20.110.1	Understand Production of electricity, distribution, theories, current, types of current, uses and prevention from shock	Understand
BP 20.110.2	Describe shock and its types, condenser, principles, sources, voltage, and conductors of current	Understand
BP 20.110.3	Explain the modification of current with circuit, and interpretation of magnetism	Remember
BP 20.110.4	Explain Electromagnetic induction, principles, skin resistance and coupling media	Remember
BP 20.110.5	Understand Physiology of pain, principles, laws, and Electromagnetic spectrum	Remember
BP 20.110.6	Implement and use the electrotherapy modalities with safety	Create

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Course Outcomes

Course Name: Fundamentals of yoga I

Course Code: BP 141

Year: I

Semester: 1st

Faculty Name: Dr. Neha Vyas

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BP 20.103.1	Recognized history of yoga, the origin, and aspects of yoga	Understand
BP 20.103.2	Describe yoga, concept, elements, principles, and importance	Remember
BP 20.103.3	Understand in detail studies about yoga asanas, pranayama, meditation, and kriyas	Remember
BP 20.103.4	Perform yoga for relaxation and improve concentration	Application
BP 20.103.5	Understand benefits of asanas and contraindications	Remember
BP 20.103.6	Implement yoga with physiotherapy treatment	Create

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Course Outcomes

Course Name: Fundamentals of yoga-II

Course Code: BP 142

Year: I

Semester: 2nd

Faculty Name: Dr. Neha Vyas

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BP 20.106.1	Understand yoga according to Patanjali, Upanishad and puranas, concepts and asanas	Understand
BP 20.106.2	Describe importance of health-related fitness components, mudras, bandhs, and positive lifestyle	Analysis
BP 20.106.3	Understand yogic sciences and breathing exercises	Apply
BP 20.106.4	Understand and perform stretching exercises and the benefits of stretching	Apply
BP 20.106.5	Understand posture, types of posture and corrective yoga poses for postural correction	Apply
BP 20.106.6	Perform yoga asanas, kriyas, pranayama and implement to the clinical practice	Create

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Course Outcomes

Course Name: Physiotherapy laboratory (Human anatomy I)

Course Code: BP 151

Year: I

Semester: 1st

Faculty Name: Dr. Neha Vyas

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BP 20.109.1	Detailed analysis of anatomical study of heart, veins, and arteries	Evaluate
BP 20.109.2	Detailed anatomical study of lungs, pleura, and bronchial tree	Analysis
BP 20.109.3	Demonstration of practical aspect of stomach, liver, Biliary ducts, pancreas,	Analysis
BP 20.109.4	Detailed anatomical study with demonstration of various parts of brain	Analysis
BP 20.109.5	Detailed anatomical study with demonstration of various parts of CNS	Analysis
BP 20.109.6	Demonstrate palpate the bony prominences	Apply

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Course Outcomes

Course Name: Physiotherapy Laboratory (Human Anatomy-II)

Course Code: BP 152

Year: I

Semester: 2nd

Faculty Name: Dr. Neha Vyas

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BP 20.112.1	Learn and identify the bones of upper limbs	Evaluate
BP 20.112.2	Learn and identify the bones of lower limb	Evaluate
BP 20.112.3	Learn and identify the bones of spine	Evaluate
BP 20.112.4	Learn and identify the bones of skull and mandible	Evaluate
BP 20.112.5	Palpate the bones and muscles for the management	Apply
BP 20.112.6	Understand the anatomical positions of bones, joints and muscles	Apply

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Course Outcomes

Course Name: Human Physiology-I

Course Code: BP 161

Year: 1st

Semester: First

Faculty Name: Dr. Neha Vyas

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BP 161.1	Understand the physiology of cell, muscle, never, neuromuscular junction, neurotransmitter, reflexes, synapses, and reaction of degenerative muscles on stimulations	Remember
BP 161.2	Describe physiology of CNS (receptor organs, sensory organs and special sensations, sensory and motor cortex	Understand
BP 161.3	Understand regulation of equilibrium and posture, physiology of Labyrinthine	Apply
BP 161.4	Understand blood, blood function, and process of coagulations	Understand
BP 161.5	Understand GI tract system, organizations plan of digestive system, hormones, movement function and regulation	Understand
BP 161.6	Describe the structure and function of kidney	Analysis

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Course Outcomes

Course Name: Human Physiology-II

Course Code: BP 162

Year: I

Semester: 2nd semester

Faculty Name: Dr. Neha Vyas

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BP 20.108.1	Secretion, regulation, and function of various glands of endocrine system	Understand
BP 20.108.2	Describe the Respiration, gases exchange, tidal volume, PFT, transportation, and breathing control	Remember
BP 20.108.3	Understand structure and function of cardiac muscles, Blood pressure, evaluation of vital sings, regulation of heart rate and BP	Understand
BP 20.108.4	Describe effects of exercise on health-related components, and parameter of pressures	Evaluate
BP 20.108.5	Understand aging and systematic effects of aging and physiological effects on body systems	Understand
BP 20.108.6	Understand and implement the clinical physiology for the body systems and analyses the diagnosis	Create

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7/9/20

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Course Outcomes

Course Name: Physiotherapy laboratory (Fundamentals of Yoga I)

Course Code: BP 171

Year: I

Semester: 1st

Faculty Name: Dr. Neha Vyas

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BP 171.1	Develop an understanding of yogic science, learn yoga, and demonstrate	Understand
BP 171.2	Learn how to demonstrate yogic asanas	Apply
BP 171.3	Learn and understand the benefits of yogic kriyas like jal neti	Apply
BP 171.4	Learn and demonstrate the meditation an relaxation techniques	Apply
BP 171.5	Understand the indication and contraindication of pranayama and right application of pranayama on people	Apply
BP 171.6	Perform and describe the yoga asanas, kriyas, pranayama, and meditation	Apply

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4/4/19

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Course Outcomes

Course Name: Physiotherapy laboratory (Fundamentals of yoga)

Course Code: BP 172

Year: I

Semester: 2nd

Faculty Name: Dr. Neha Vyas

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BP 20.114.1	Learn to demonstrate the mudras	Application
BP 20.114.2	Learn and demonstrate the stretching exercise	Application
BP 20.114.3	Learn and demonstrate pranayama and breathing exercises	Application
BP 20.114.4	Learn to demonstrate the postural correction asana	Application
BP 20.114.5	Perform the yogic asanas	Create
BP 20.114.6	Educate patients for yoga	Remember

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Course Outcomes

Course Name: Physiotherapy laboratory (Human physiology I)

Course Code: BP 181

Year: I

Semester: 1st

Faculty Name: Dr. Neha Vyas

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BP 20.113.1	Evaluate the blood group (ABO) and Rh	Analysis
BP 20.113.2	Learn how to Auscultate	Evaluate
BP 20.113.3	Identify the Various heart sound and auscultation	Evaluate
BP 20.113.4	Understand the Functioning of digestive system and GI tract	Understand
BP 20.113.5	Understand the Functioning of kidney and nephrons	Understand
BP 20.113.6	Perform the blood test and identify the applied physiology of various systems in body	Apply

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Course Outcomes

Course Name: Physiotherapy laboratory (Human physiology-II)

Course Code: BP 182

Year: I

Semester: 2nd

Faculty Name: Dr. Neha Vyas

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BP 20.116.1	Learn and Demonstrate the Physiological functioning of respiratory system	Analysis
BP 20.116.2	Learn and Demonstrate the various physiological tests in exercise	Analysis
BP 20.116.3	Learn and Demonstrate the physiological functioning of cardiovascular system	Analysis

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7/9/20

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School of Liberal Arts and Sciences

Course Outcomes

Course Name: General medicine

Course Code: BP 201

Year: II

Semester: 3rd

Faculty Name: Dr. Neha Vyas

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BP 201.1	Describe in detail about infections, various types, Pathology, Vaccination and STDs	Understand
BP 201.2	Understand the common agents of positioning, effects on body and management	Remember
BP 201.3	Explain Nutritional deficiency diseases, Malnutrition, complications, benefits, exercises, and medication	Application
BP 201.4	Understand common endocrine diseases, blood disorders, digestive disorders, skin disorder, their clinical manifestation and management of disease	Understand
BP 201.5	Explain Problems related to child with premature, congenital abnormalities and management	Understand
BP 201.6	Describe Psychiatric disorders, clinical manifestation, management, and therapies	Understand

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1/11/24

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Course Outcomes

Course Name: Orthopedics

Course Code: BP 202

Year: II

Semester: 4th

Faculty Name: Dr. Neha Vyas

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BP 202.1	Examination, Investigation, radiological and imagine technique in orthopedics, Inflammation, and healing	Application
BP 202.2	Different types of fractures, sing sand symptoms, and surgical and conservative management	Understand
BP 202.3	Different types of soft tissues injury and deformities, surgical and conservative management	Remember
BP 202.4	Describe inflammatory and degenerative conditions causes, clinical features and management	Understand
BP 202.5	Common segmental conditions, clinical features, and management	Understand
BP 202.6	Common orthopedic condition and clinical implication	Apply

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School of Liberal Arts and Sciences

Course Outcomes

Course Name: Pharmacology

Course Code: BP 211

Year: II

Semester: 3rd

Faculty Name: Dr. Neha Vyas

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BP 211.1	Understand the drugs, types of drugs, uses, Effects and responses of drugs	Understand
BP 211.2	General consideration of drug Diseases and disorders of automatic nervous system, cardiovascular diseases, heart failure, and digestive disorders	Application
BP 211.3	Understand the neuropharmacology, sedative drugs, and drugs for various neuropsychological conditions	Application
BP 211.4	Drugs uses for movement disorders, tremors, spasticity, dementia and special conditions	Understand
BP 211.5	Drugs uses for anti-inflammatory conditions, pain, neuromuscular inflammatory conditions, and respiratory disorders	Application
BP 211.6	Drug uses for Resisting the toxins and agents (antibiotics)	Application

Signature of the faculty

11/11/19

MODY UNIVERSITY
A Leading Women's University

School of Liberal Arts/ School of Science

Course Outcomes

Course Name: Pediatrics

Course Code: BP 212

Year: II

Semester: 4th

Faculty Name: Dr. Neha Vyas

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BP 212.1	Understand normal milestones and development of child, evaluation, early detection, and intervention	Analyze
BP 212.2	Neuromuscular conditions, common causes, and syndromes	Understand
BP 212.3	Disorders and deficiencies of Vitamins and nutrition	Understand
BP 212.4	Describe Common respiratory syndromes in children	Understand
BP 212.5	Explain common Cardiovascular disorders and their management	Remember
BP 212.6	Common pediatrics disorder and their clinical implication	Apply

Signature of the faculty

7/9/20

MODY UNIVERSITY
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School of Liberal Arts and Sciences

Course Outcomes

Course Name: Electrotherapy I

Course Code: BP 221

Year: II

Semester: 3rd

Faculty Name: Dr. Neha Vyas

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BP 221.1	Understand about low frequency current, types, therapeutic uses, physiological effects, contraindication, Indications, dangers SD and curve, principles of application of electrotherapy	Application
BP 221.2	Explain sinusoidal current and Dia dynamic current its uses and effects, selection of cathodal and anodal galvanism	Understand
BP 221.3	Perform techniques Iontophoresis, uses, effects Indications, and pain relief, pain, theories of pain, and pain gate theory	Create
BP 221.4	Understand the uses of macro current and micro current	Understand
BP 221.5	Explain the Use stimulator, principals, Diagnostic stimulator, and constructive component	Application
BP 221.6	Nerve muscle physiology, tissue repair, and action potential	Remember

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Course Outcomes

Course Name: Electrotherapy II

Course Code: BP 222

Year: II

Semester: 4th

Faculty Name: Dr. Neha Vyas

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BP 222.1	Use modalities of low frequency current and methods and application EMG and other diagnostic testing	Apply
BP 222.2	Use modalities of medium frequency current and application, indication and contraindication	Apply
BP 222.3	Use modalities of medium frequency current and understand indications, contraindications, methods, application, indication and contraindications, heat production and dosages parameters of heating modalities	Understand
BP 222.4	Apply ultrasound, understand production of US waves, indications, contraindication, method of application, dangers and phonophoresis and application	Remember
BP 222.5	Use of superficial modalities like cryotherapy and understand indications, contraindications, methods, and dangers	Understand

BP 222.6	Clinical uses of electrotherapy modalities for different conditions	Create

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Course Outcomes

Course Name: Exercise therapy-II

Course Code: BP 231

Year: II

Semester: 3rd

Faculty Name: Dr. Neha Vyas

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BP 231.1	Describe PNF, functional re-education, isotonic, isometric, and isokinetic exercise	Application
BP 231.2	Prescribe walking, aerobic exercises, exercises testing, and stretching exercises	Create
BP 231.3	Understand balance, Coordination, and incoordination	Understand
BP 231.4	Describe posture, types, mechanism, evaluation, methods, techniques of correction and patient education	Application
BP 231.5	Apply and prescribe hydrotherapy, properties of water, indication, contraindication, Precautions, and technique	Application
BP 231.6	understand the mechanism of breathing and Educate patients for breathing exercises techniques, indication and contraindication	Application

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School of Liberal Arts/ School of Science

Course Outcomes

Course Name: Exercise therapy-II

Course Code: BP 232

Year: II

Semester: 4th

Faculty Name: Dr. Neha Vyas

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BP 232.1	Explain preoperative patient preparation, physiological effects of surgery and principles of surgical management of various surgeries	Application
BP 232.2	Remember abdominal incision and complications abdominal surgeries (postoperative)	Understand
BP 232.3	Understand post-operative bowel and bladder incontinence, clinical features, and management	Understand
BP 232.4	Describe hernia, causes, types and management (surgical), post-operative management	Remember
BP 232.5	Understand burns, classification, types, early and late clinical complications	Application
BP 232.6	Create assessment of general surgical cases in clinical settings	Create

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School of Liberal Arts and Sciences

Course Outcomes

Course Name: Pathology and microbiology

Course Code: BP 241

Year: II

Semester: 3rd

Faculty Name: Dr. Neha Vyas

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BP 241.1	Understand inflammation and healing process	Remember
BP 241.2	Understand and relate respiratory system diseases, stomach and pathologies, liver disorders	Understand
BP 241.3	Define infectious diseases, viral diseases, fungal and parasitic diseases, agents, and route of spread	Understand
BP 241.4	Understand hematology, lab diagnosis, blood disorders and classification and investigation	Remember
BP 241.5	Understand bacteriology, morphology, interpretation of lab tests, and mode of transmission	Remember
BP 241.6	Applied microbiology and diseases	Understand

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School of Liberal Arts/ School of Science

Course Outcomes

Course Name: Biomechanics and kinesiology

Course Code: BP 242

Year: II

Semester: 4th

Faculty Name: Dr. Neha Vyas

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BP 242.1	Basic concept of kinetics and kinematics with reference to human body	Understand
BP 242.2	Joint structure and function of human body, properties of connective tissues, Effects of injuries and immobilization over joints	Remember
BP 242.3	Describe muscle structure and function, elements, mobility, spasticity, and effects of aging over muscle structure and function	Understand
BP 242.4	Describe general structure rib cage, muscle attachment, accessory muscles of respiration, physiological changes during pregnancy and special consideration of chest diseases	Understand
BP 242.5	Regional biomechanics of cervical, thorax, and lumbar vertebral column, muscles (mechanics of muscles) and effects of immobility and aging over structure and function of vertebras	Understand
BP 242.6	Understand Posture, types, arthrokinematics of posture, causes of changes in posture, Gait, fundaments of gait, gait cycle, uses	Evaluate

	Muscles during each step of gait cycle, Effects of injury, and **alignment of body**	

Signature of the faculty

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School of Liberal Arts and Sciences

Course Outcomes

Course Name: Ophthalmology practical

Course Code: BP 251

Year: II

Semester: 3rd

Faculty Name: Dr. Neha Vyas

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BP 251.1	Describe pathophysiology, signs & symptoms, clinical features, examination & management of Ophthalmic conditions	Application

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Course Outcomes

Course Name: Ancient Indian History-I

Course Code: HY 111

Year: 1 st

Semester: Autumn 19-20

Faculty Name: Dr. Ravi Shankar

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
HY 111.1	Understand the trajectory of pre-history in India's past.	Understand
HY 111.2	Map transition to proto-history from pre-history along with their characteristic features.	Understand
HY 111.3	Understand technological development and their contribution in the development of human civilization in India.	Understand
HY 111.4	Understand evolving complex social system concomitant with the transition from pre-history to proto-history to	Understand
HY 111.5	early history (stone age to Harappan civilization to Aryan society.	Understand
HY 111.6	Comparative view of Indian civilization with the material similarities and dissimilarities of other contemporary	Analyze

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School of Liberal Arts and Sciences

Course Outcomes

Course Name: **Ancient Indian History-II**

Course Code: HY 112

Year: 1 st

Semester: Spring 19-20

Faculty Name: Dr. Ravi Shankar

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
HY 112.1	Understand mapping out various themes of Ancient India from Vedic period onwards.	Understand
HY 112.2	Familiarity with the debates around the origin of Aryans and transition from urban Harappan phase to rural Vedic Culture	Understand
HY 112.3	Explain the formation and development of the state in Ancient India.	Remember
HY 112.4	Explain the complexity of social system.	Analyze
HY 112.5	Identify the historical importance of the accelerated practice of land grants issued by ruling houses.	Understand
HY 112.6	Contextualize the evolution and growth of regional styles of temple architecture and the evolving role of these temples as centers of socio-economic and political activities	Analyze

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School of Liberal Arts and Sciences

Course Outcomes

Course Name: **Ancient River Civilisation-I**

Course Code: HY 121

Year: 1 st

Semester: Autumn 19-20

Faculty Name: Dr. Ravi Shankar

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
HY 121.1	Understand human civilization in Middle East and West Asia especially Mesopotamia.	Understand
HY 121.2	Know human civilization in Africa (alongside Nile River)	Understand
HY 121.3	Trace the origin of Chinese civilization through detailed study of various dynastic rules	Remember
HY 121.4	Familiarity with intersection of mythology and Chinese historical sources	Analyze
HY 121.5	Develop a holistic picture of civilization at world level.	Understand
HY 121.6	Analyze the material aspects of civilizations	Analyze

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School of Liberal Arts and Sciences

Course Outcomes

Course Name: **Ancient River Civilisation-II**

Course Code: HY 122

Year: 1 st

Semester: Spring 19-20

Faculty Name: Dr. Ravi Shankar

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
HY 122.1	Gain a detailed knowledge of the culture of Ancient Greek and Roman civilizations, especially the broader historical, social, and cultural contexts and their development.	Understand
HY 122.2	Acquire familiarity with contemporary methods of cultural and historical analysis to facilitate self-directed enquiry of Ancient Greek and Roman cultures.	Understand
HY 122.3	Develop an awareness of the place of Ancient Greek and Roman culture in the western tradition in order to understand connections between past and present.	Remember
HY 122.4	Learn as to how the careful engagement with other cultures can facilitate new ways of understanding and interpreting one's own contemporary culture.	Analyze
HY 122.5	Develop an analytical understanding of warfare across different Ancient societies especially Greek and Roman ones	Analyze
HY 122.6	Comparative understanding of socio-political-legal institutions.	Analyze

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Course Outcomes

Course Name: **History of Medieval India (750-1526 A.D) –I**

Course Code: HY 211

Year: 2 nd

Semester: Autumn 19-20

Faculty Name: Dr. Ravi Shankar

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
HY 211.1	Identify the major political developments in the History of India during the period between eighth century and sixteenth century.	Understand
HY 211.2	Discuss the origin and spread of Islam and its extension and impact over India.	Understand
HY 211.3	Understanding the complex interaction of Islamic elements and Indian elements through the framework of Islamization of indigenous elements and Indigenization of Islamic elements.	Understand
HY 211.4	Discuss the economic history of the period under study in India especially, where agrarian production and its implications are concerned.	Understand
HY 211.5	Delineate the development of trade and urban complexes during this period	Understand
HY 211.6	Outline the changes and continuities in the field of culture, especially with regard to art, architecture, bhakti movement and Sufi movement.	Understand

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Course Outcomes

Course Name: History of Medieval India (1526-1740 A.D)-II

Course Code: HY 212

Year: 2nd

Semester: Spring 19-20

Faculty Name: Dr. Ravi Shankar

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
HY 212.1	Explain the foundation of Mughal Empire in India.	Understand
HY 212.2	Understanding the resistance to Mughal Empire by Indianised Muslim ruling class	Understand
HY 212.3	Explain series of land reforms undertaken under Mughal regime.	Understand
HY 212.4	Analyse the synergy and conflict between religion and the State.	Analyze
HY 212.5	Describe internal and external threats to the existing regime.	Understand
HY 212.6	Explain the nuances of art and architecture under Mughal regime and decline of Mughal.	Understand

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Course Outcomes

Course Name: Main Outline of World History-I

Course Code: HY 221

Year: 2nd

Semester: Autumn 19-20

Faculty Name: Dr. Ravi Shankar

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
HY 221.1	Describe transition of Europe from dark age to new age through discussion of Renaissance and Reformation.	Understand
HY 221.2	Locate resistance to rising waves of changes through understanding the development of counter-assertive collective.	Analyze
HY 221.3	Understand the evolving predilection of society towards war and conflict with reference to several wars in Europe (Thirty Years Religious war, Hundred Years War etc.)	Understand
HY 221.4	Analyse positive and negative equation between religion and the state.	Understand
HY 221.5	Trace new development in trade in the light of discovery of new geographies beyond Europe.	Analyze
HY 221.6	Explain the crisis of feudalism and transition absolutist monarchy across Europe.	Understand

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School of Liberal Arts and Sciences

Course Outcomes

Course Name: Main Outline of World History-II

Course Code: HY 222

Year: 2nd

Semester: Spring 19-20

Faculty Name: Dr. Ravi Shankar

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
HY 222.1	Understand how Russia which is eastern part of Europe evolves from small and unattended center to become massive power in the Europe.	Understand
HY 222.2	Trace how Russia struggled to catch up with the Western Europe for political and cultural development.	Analyze
HY 222.3	Know the important Czars and Czarinas of Russia.	Understand
HY 222.4	Familiarity with the monarchical system of Prussia especially with reference to Frederick the great to understand his remarkable contribution in the field of war strategy.	Understand
HY 222.5	Understand how Austria became the bone of contention and conflict among European nations.	Understand
HY 222.6	Explain the development of art under Baroque style and rise of new era with the revolution in France and Napoleon's rise and fall.	Understand

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Course Outcomes

Course Name: **History of Modern India (1740-1857 A.D) –I**

Course Code: HY 311

Year: 3rd

Semester: Autumn 19-20

Faculty Name: Dr. Ravi Shankar

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
HY 311.1	Outline key developments of the 18th century in the Indian subcontinent.	Understand
HY 311.2	Explain the establishment of Company rule and important features of the early colonial regime	Analyze
HY 311.3	Explain the peculiarities of evolving colonial institutions and their impact.	Understand
HY 311.4	Discuss the social churning on questions of tradition, reform, etc. during first century of British colonial rule.	Understand
HY 311.5	Assess the issues of landed elite, and those of struggling peasants, tribes and artisans during the Company Raj.	Analyze
HY 311.6	Analyse the impact of new education and building up of tension as a result of new education	Analyze

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Course Outcomes

Course Name: **History of Modern India (1857-1947 A.D) -II**

Course Code: HY 312

Year: 3rd

Semester: Spring 19-20

Faculty Name: Dr. Ravi Shankar

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
HY 312.1	Identify development of different regional, religious and linguistic identities in late 19th and early 20th centuries.	Analyze
HY 312.2	Outline the social and economic facets of colonial India and their influence on different trends of politics.	understand
HY 312.3	Explain the various forms of anti-colonial struggles in colonial India.	Understand
HY 312.4	Analyse the complex developments leading to communal violence and Partition.	Analyze
HY 312.5	Discuss the negotiations for independence, the key debates on the Constitution and need for socioeconomic restructuring soon after Independence	Understand
HY 312.6	Identify parallel issues within the region and their different objectives and methods (their compatibility issue with the nationalist framework)	Analyze

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Course Outcomes

Course Name: **History of China and Japan (1840-1949 A.D) -I**

Course Code: HY 321

Year: 3rd

Semester: Autumn 19-20

Faculty Name: Dr. Ravi Shankar

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
HY 321.1	Explain breakdown of Sino-centrism and transition towards new political, social and economic order due to worldwide colonialism and imperialism.	Understand
HY 321.2	Explain China's engagement with the challenges posed by imperialism, and the trajectories of transition from feudalism to a bourgeois/ capitalist modernity.	understand
HY 321.3	Locate evidence of deteriorated Chinese supremacy in East Asia.	Analyze
HY 321.4	Investigate the political, economic, social and cultural disruptions caused by the breakdown of the centuries old Chinese institutions and ideas, and the recasting of tradition to meet modernist challenges	Analyze
HY 321.5	Understand the friction within the China between the Imperial power and the regional powers.	Understand
HY 321.6	Analyse the peasant class revolts from different quarters of China	Analyze

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Course Outcomes

Course Name: **History of China and Japan (1840-1949 A.D) -II**

Course Code: HY 322

Year: 3rd

Semester: Spring 19-20

Faculty Name: Dr. Ravi Shankar

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
HY 322.1	Explain China's engagement with the challenges posed by imperialism, and the trajectories of transition from feudalism to a bourgeois/ capitalist modernity.	Understand
HY 322.2	Explain the end of dynastic rules and changes which followed it.	Understand
HY 322.3	Describe the genesis and trace the unique trajectories of the Chinese Communist Revolution.	Understand
HY 322.4	Understand Japan's transition from feudal order to old emperor system in new way.	Understand
HY 322.5	Understand the modernization drive of Japan in the light its stellar rise as a strong powerful nation in Asian region.	Understand
HY 322.6	Explain its socio-cultural and economic changes plus recurrent constitutional reforms under Meiji regime.	Understand

17/2/20

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School of Liberal Arts and Sciences

Course Outcomes

Course Name: Microbiology and Cytogenetics laboratory

Course Code: BT 551

Year: 2019-20

Semester: AUTUMN

Faculty Name: Dr. Bhupendra K Goyal

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BT551.1	To design an experiments like effect of temperature and solvents on cell membrane	Create
BT551.2	To demonstrate cell fractionation (mitochondrial, nuclear, cytoplasmic) and determination of enzyme activity	Apply
BT551.3	To understand the genetics and functioning of genes using Mendelian deviations in crosses	Understand
BT551.4	To study the cell cycle and its control and understand cancer	Remember
BT551.5	To demonstrate karyotyping with the help of photographs	Apply
BT551.6	To tell of polyploidy in onion root tip using colchicines and Demonstration of Barr Body- Rhoeo translocation	Remember

10/12/19

Signature of the faculty

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Course Outcomes

Course Name: Cytogenesis

Course Code: BT511

Year: 2019-20

Semester: Autumn

Faculty Name: Dr.Bhupendra K Goyal

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BT511.1	To identify the basic structure of cell, Cell theory and cell organelles	Remember
BT511.2	To differentiate between energy metabolism of cell	Understand
BT511.3	To illustrate the transport across cellular membrane	Apply
BT511.4	the cell cycle and its control and understand cancer	Remember
BT511.5	To describe mendelian and non-mendelian genetics and linkage mutations	Analyse
BT511.6	To outline the type of chromosomal aberrations and know about To know the population genetics and genetic drift	Analyse

16/12/19

MODY UNIVERSITY
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School of Liberal Arts and Sciences

Course Outcomes

Course Name: B.Sc. First and B.Sc. Third Biotechnology

Course Code: BO111 Botany-1

Year: 2019-20

Semester: AUTUMN

Faculty Name: Dr. Bhupendra K Goyal

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BO111.1	Define the plant characteristics and identify them.	Remember
BO1112	Describe development and morphology of these plants.	Understand
BO1113	Outline several economic importance of such plants	Analyse
BO1114	Describe various types of groups belonging to such plants.	Understand
BO1115	Outline the developmental evolutionary trends.	Analyse
BO1116	Compare these plants in the field studies.	Evaluate

16/12/19

Signature of the faculty

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School of Liberal Arts and Sciences

Course Outcomes

Course Name: B.Sc. First

Course Code: BO121 Botany-1 Practical

Year: 2019-20

Semester: AUTUMN

Faculty Name: Dr. Bhupendra K Goyal

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BO121.1	To list the plant characteristics and differentiate among cryptogams.	Remember
BO121.2	To summarize and study the morphological character of these plants.	Understand
BO121.3	To list the plant characteristics and differentiate among bryophytes	Remember
BO121.4	To summarize and study the morphological characters of bryophytes.	Understand
BO121.5	To summarize and study the morphological characters of pteridophytes.	Understand
BO121.6	To devlelop technique to identify above plants in their natural habitat	Create

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School of Liberal Arts and Sciences

Course Outcomes

Course Name: Botany Laboratory-II

Course Code: BO 122 lab

Year: 2019- 20

Semester: Spring &Autumn

Faculty Name: Dr.BHUPENDRA K GOYAL

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BO122.1	List general characters important plants of gymnosperms & angiosperms	Remember
BO122.2	Draw diagram & define Morphology, reproduction and life cycle of Cycas, Pinus and Ephedra.	analyse
BO122.3	List economic important plants of gymnosperms & angiosperms	Remember
BO122.4	Compare Brief some of important plant Flowering Families-1	Evaluate
BO122.5	Compare Brief some of important plant Flowering Families-11	Evaluate
BO122.6	Compare various type of fossils & Gymnosperm – William sonia and Glossopteris.	Evaluate

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Course Outcomes

Course Name: Botany-II

Course Code: BO 132

Year: III

Semester: 6th

Faculty Name: Dr. Bhupendra Goyal

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BO132.1	Discuss the origin and evolution of seeds, land plants and their fossilization.	Understand
BO132.2	State the general characters/ classification of gymnosperms and economic importance	Remember
BO132.3	Illustrate anatomical features of gymnosperms	Analyse
BO132.4	Compare between different families and classification of angiosperms	Evaluate
BO132.5	Differentiate between characters of angiosperm families.	Understand
BO132.6	Able to explain the principal, role and significance of plant breeding	Understand

16/3/20

MODY UNIVERSITY
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Course Outcomes

Course Name: Gymnosperms and Taxonomy of Angiosperms

Course Code: BO142

Year: I Year

Semester: 2nd semester

Faculty Name: Dr.Bhupendra K Goyal

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BO142.1	Explain seed habit and heterospory and fossilization of plants	Remember
BO142.2	Illustrate general characters, classification and economics of gymnosperms.	Understand
BO142.3	Outline taxonomic terms, nomenclature and classification	Evaluate
BO142.4	Illustrate in brief characters of angiospermic families.	Understand
BO142.5	Compare some economic important plant families	Evaluate
BO142.6	Analyse phenotypic characters like phenograms, cladograms	Analyse

16/3/20

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Course Outcomes

Course Name: Botany Laboratory-III

Course Code: BO221

Year: 2019-20

Semester: AUTUMN

Faculty Name: Dr. Bhupendra K Goyal

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BO221.1	To identify forces involved in absorption and ascent of water the plants	Remember
BO221.2	To identify the role of essential elements in plant growth	Remember
BO221.3	To demonstrate mechanism involved in photosynthesis in plants	Apply
BO221.4	To demonstrate mechanism involved in respiration in plants	Apply
BO221.5	To analyse the responses of plant growth regulators and other growth responses in the development of plants	Analyse
BO221.6	To invent your own technique to describe physiological processes like biological rhythm ,stress growth etc. in plants	Create

10/12/19

Signature of the faculty

MODY UNIVERSITY
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School of Liberal Arts and Sciences

Course Outcomes

Course Name: B.Sc. Second Biotechnology

Course Code: BO222 Lab Plant Developmental Biology

Year: 2019-20

Semester: Spring

Faculty Name: Dr. Bhupendra K. Goyal

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BO222.1	To differentiate among tissues involved in the growth of plants	Understand
BO222.2	To draw diagrams of internal structures of root, stem and leaf	Analyze
BO222.3	To identify tissues involved in secondary growth and adaptations in plants	Remember
BO222.4	To show male & female reproductive structures of a flower (external & internal.	Apply
BO222.5	To make sketches of types of embryo sac, endosperms and embryos in angiosperms	Analyse
BO222.6	To design a method to study adaptations to pollination and other practical applications like parthenocarpy etc. in angiosperms	Create

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Signature of the faculty

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Course Outcomes

Course Name: B.Sc. Second CBZ and Biotechnology

Course Code: BO231

Year: ~~2020-21~~ 2019-20

Semester: AUTUMN

Faculty Name: Dr. Bhupendra K Goyal

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BO231.1	To discuss water relationship in the plant and its parts	Understand
BO231.2	To identify several essential elements and their role in plant growth	Remember
BO231.3	To demonstrate mechanism of photosynthesis in plants	Apply
BO231.4	To outline several respiratory pathways in plants and enzyme activities	Analyse
BO231.5	To compare plant growth regulators and other secondary metabolites in plants	Evaluate
BO231.6	To describe biological rhythm and stress physiology in plants	Understand

10/12/19

Signature of the faculty

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Name of the Faculty: Dr. Bhupendra K. Goyal

Course Name: Plant Anatomy and Embryology

Course code: BO 232

Program: B.Sc.IInd (CBZ) and Biotechnology (Hons.)

Year:2019-20

Semester: Spring

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BO232.1	Define structure tissues organ development and morphology of male gametophyte.	Remember
BO232.2	Describe type of tissues and tissue system and development of female gametophyte	Understand
BO232.3	Outline methods of fertilization and pollinations in angiosperms.	Analyse
BO232.4	Describe various types of tissue system, ovules and endosperm in angiosperms.	Understand
BO232.5	Outline the survival behavior of plants	Analyse
BO232.6	Compare the type of seed dispersals and seed dormancy.	Evaluate

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Course Outcomes

Course Name: Plant Morphology and Breeding

Course Code: BO242

Year: II

Semester: Spring

Faculty Name: Dr.Bhupendra K Goyal

COURSE OUTCOMES:

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BO242.1	Identify the basic external structure of a plant and know their modifications.	Remember
BO242.2	Describe growth and morphological characters of these plants.	Understand
BO242.3	Illustrate methods of seed and fruit dispersal and know seed type.	Create
BO242.4	Design methods of tissue, embryo and somatic culture	Understand
BO242.5	Categorize type and methods of plant breeding	Analyse
BO242.6	Compare methods of crop improvement and their role in biotechnology	Evaluate

16/3/20

16/3/20

MODY UNIVERSITY
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School of Liberal Arts and Science

Course Outcomes

Course Name: Botany Laboratory-IV

Course Code: BO252 Lab

Year: 2019-20

Semester: Spring

Faculty Name: Dr. Bhupendra K. Goyal

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BO252.1	To differentiate among tissues involved in the growth of plants	Understand
BO252.2	To draw diagrams of internal structures of root, stem and leaf	Analyze
BO252.3	To identify tissues involved in secondary growth and adaptations in plants	Remember
BO252.4	To make sketches of developmental stages like, embryo sac, endosperms and embryos in angiosperms, and	Analyse
BO252.5	To demonstrate the technique for in vitro culture in plants	Apply
BO252.6	To design a method to study adaptations to pollination and other practical applications and breeding methods in plants	Create

16/3/20

Signature of the faculty

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School of Liberal Arts and Sciences

Course Outcomes

Course Name: Fourier Analysis

Course Code: MS 682

Program: M.Sc. (Mathematics)/M.A. (Mathematics) II Yr

Semester: Spring (4th) 2020-2021

Faculty Name: Prof. (Dr.) Jitendra Binwal

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MS 682.1	Define the different aspects of Fourier series, Fourier integral, and Fourier transform with its applications.	Remember
MS 682.2	Explain the properties related to Fourier series, Fourier integral, and Fourier transform with its applications.	Understand
MS 682.3	Solve the problems related to Fourier series, Fourier integral, and Fourier transform with its applications.	Apply
MS 682.4	Analyse the problem related to Fourier series, Fourier integral, and Fourier transform with its applications.	Analyse
MS 682.5	Compare all the aspects of the Fourier series, Fourier integral, and Fourier transform with its applications.	Evaluate
MS 682.6	May integrate the fundamentals as theorems/corollary/lemmas of Fourier series, Fourier integral, and Fourier transform with its applications etc.	Create

11/4/20

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School of Libearal Arts and Sciences

Course Outcomes

Course Name: Basics of MATLAB

Course Code: MS 632

Year: M.Sc. (Mathematics) II Year

Semester: Spring (4th)

Faculty Name: Dr. Jitendra Binwal

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MS 632.1	Define all aspects of basics of MATLAB.	Remember
MS 632.2	Describe all the problems regarding basics of MATLAB by MATLAB programming.	Understand
MS 632.3	Apply basics of MATLAB to functions and files.	Apply
MS 632.4	Analyse the decision making programs.	Analyse
MS 632.5	Compare the advanced plotting and model building programs.	Evaluate
MS 632.6	Develop the programs related to basics of MATLAB with possible new ideas and develop the program regarding advanced plotting and model building in mathematical modeling and simulation.	Create

1/9/20

(Dr. Jitendra Binwal)
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MODY UNIVERSITY
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School of Liberal Arts and Sciences

Course Outcomes

Course Name: Advanced Graph Theory and Combinatorics

Course Code: MS 621

Year: M.Sc. (Mathematics)/M.A. (Mathematics) II Year

Semester: Autumn (3rd)

Faculty Name: Prof. (Dr.) Jitendra Binwal

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MS 621.1	Define the different aspects of set theory, graphs, Trees, Cut-Sets and Cut-Vertices, Planarity, Matching, Coloring and Covering, Pebbling on Graph, and Advance Counting Techniques.	Remember
MS 621.2	Explain the properties related to set theory, graphs, Trees, Cut-Sets and Cut-Vertices, Planarity, Matching, Coloring and Covering, Pebbling on Graph, and Advance Counting Techniques.	Understand
MS 621.3	Solve the problems related set theory, graphs, Trees, Cut-Sets and Cut-Vertices, Planarity, Matching, Coloring and Covering, Pebbling on Graph, and Advance Counting Techniques.	Apply
MS 621.4	Analyse the problem related to set theory, graphs, Trees, Cut-Sets and Cut-Vertices, Planarity, Matching, Coloring and Covering, Pebbling on Graph, and Advance Counting Techniques.	Analyse
MS 621.5	Compare all the aspects of the set theory, graphs, Trees, Cut-Sets and Cut-Vertices, Planarity, Matching, Coloring and Covering, Pebbling on Graph, and Advance Counting Techniques.	Evaluate
MS 621.6	May integrate the fundamentals of Advanced Graph Theory and Combinatorics in the interdisciplinary area just like science and engineering etc.	Create

18/11/19

Prof. (Dr.) Jitendra Binwal

Signature of the Faculty

MODY UNIVERSITY
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School of Sciences

Course Outcomes

Course Name: Modeling and Simulation Laboratory

Course Code: MS 562

Year: M.Sc. (Mathematics)/M.A. (Mathematics) I Year

Semester: Spring (2nd)

Faculty Name: Dr. Jitendra Binwal

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MS 562.1	Define all aspects regarding modeling and simulation laboratory with reference to Microsoft Excel Programming (MEP) and C++ Programming	Remember
MS 562.2	Discuss Bisection method, Regula Falsi method, Newton Raphson method, Gauss Elimination method, Runge Kutta method and different models with MEP with respect to numerical simulation.	Understand
MS 562.3	Calculate the parameters related to the problems with reference to modeling and simulation laboratory.	Apply
MS 562.4	Analyse numerical simulation problems, C++ programs, SIR model, Coffee shop problem and Monte Carlo simulation with random number generation technique.	Analyse
MS 562.5	Solve all aspects up to function for C++ by C++ programming and all discrete event simulation problems.	Evaluate
MS 562.6	Compare the results of different models by MEP and C++ programming.	Create

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MODY UNIVERSITY
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School of Liberal Arts and Sciences

Course Outcomes

Course Name: Mathematical Modeling and Simulation

Course Code: MS 532

Program: M.Sc. (Mathematics)/M.A.(Mathematics) I Yr

Semester: Spring (2nd)2019-2020

Faculty Name: Dr. Jitendra Binwal

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MS 532.1	Define the different aspects of simulation, modeling, random number, random variates, discrete event simulation, verification and validation of simulation models.	Remember
MS 532.2	Explain the properties related to simulation, modeling, random number, random variates, discrete event simulation, verification and validation of simulation models.	Understand
MS 532.3	Solve the problems related simulation, modeling, random number, random variates, discrete event simulation, verification and validation of simulation models.	Apply
MS 532.4	Analyse the problem related to simulation, modeling, random number, random variates, discrete event simulation, verification and validation of simulation models.	Analyse
MS 532.5	Compare all the aspects of the simulation, modeling, random number, random variates, discrete event simulation, verification and validation of simulation models.	Evaluate
MS 532.6	May integrate the fundamentals as theorems/corollary/lemmas of simulation, modeling, random number, random variates, discrete event simulation, verification and validation of simulation models.	Create

11/9/20

(Dr. Jitendra Binwal)

Signature of the Faculty

MODY UNIVERSITY
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School of Liberal Arts and Sciences

Course Outcomes

Course Name: Discrete Mathematics

Course Code: MS 521

Year: M.Sc. (Mathematics)/M.A. (Mathematics) I Year

Semester: Autumn (1st)

Faculty Name: Prof. (Dr.) Jitendra Binwal

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MS 521.1	Define the different aspects of discrete mathematics just like set theory, relation, function, counting, logic, graph and automaton.	Remember
MS 521.2	Explain the properties related to set theory, relation, function, counting, logic, graph and automaton.	Understand
MS 521.3	Solve the problems related set theory, relations, functions, counting, logics, graphs and automaton.	Apply
MS 521.4	Analyse the problem related to relations, functions, counting, logics, graphs and automaton with interdisciplinary areas.	Analyse
MS 521.5	Compare all the aspects of the set theory in relations, functions, logics, counting techniques, graphs and automaton.	Evaluate
MS 521.6	May integrate the fundamentals of discrete mathematics in the interdisciplinary area just like science and engineering etc.	Create

18/11/19

Prof. (Dr.) Jitendra Binwal

Signature of the Faculty

MODY UNIVERSITY
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School of Liberal Arts and Sciences

Course Outcomes

Course Name: Combinatorics

Course Code: MS 331

Year: B.Sc. (Honrs.) Mathematics III Yr

Semester: Autumn (5th)

Faculty Name: Dr. Jitendra Binwal

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MS 331.1	Define the different aspects of discrete mathematics just like set theory, relation, function, counting, and mathematical induction.	Remember
MS 331.2	Explain the properties related to set theory, relation, function, counting, and mathematical induction.	Understand
MS 331.3	Solve the problems related set theory, relation, function, counting, and mathematical induction.	Apply
MS 331.4	Analyse the problem related to set theory, relation, function, counting, and mathematical induction.	Analyse
MS 331.5	Compare all the aspects of the set theory, relation, function, counting, and mathematical induction.	Evaluate
MS 331.6	May integrate the fundamentals of combinatorics in the interdisciplinary area just like science and engineering etc.	Create

18/11/19

(Dr. Jitendra Binwal)

Signature of the Faculty

MODY UNIVERSITY
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School of Liberal Arts and Sciences

Course Outcomes

Course Name: Complex Analysis

Course Code: MS 321

Year: B.Sc. (PCM)/B.Sc. (Hons) Mathematics III Yr

Semester: Autumn (5th)

Faculty Name: Dr. Jitendra Binwal

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MS 321.1	Define the different aspects of analytic function, conformal mapping, complex integration and singularities.	Remember
MS 321.2	Explain the properties related to analytic function, conformal mapping, complex integration and simgularities.	Understand
MS 321.3	Solve the problems related analytic function, conformal mapping, complex integration and simgularities.	Apply
MS 321.4	Analyse the problem related to analytic function, conformal mapping, complex integration and simgularities.	Analyse
MS 321.5	Compare all the aspects of the analytic function, conformal mapping, complex integration and simgularities.	Evaluate
MS 321.6	May integrate the fundamentals of complex analysis in the interdisciplinary area just like science and engineering etc.	Create

Prof. (Dr.) Jitendra Binwal

Signature of the Faculty

MODY UNIVERSITY
A Leading Women's University

School of Liberal Arts and Sciences (SLAS)

Course Outcomes

Course Name: Real Analysis

Course Code: MS 222

Program: B.Sc. (PCM)/B.Sc. (Honrs.) PCM II Yr

Semester: Spring (4th) 2019-2020

Faculty Name: Dr. Jitendra Binwal

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MS 222.1	Define the different aspects of neighborhood, limit points, sequence, infinite series, and The Riemann Integral.	Remember
MS 222.2	Explain the properties related to neighborhood, limit points, sequence, infinite series, and The Riemann Integral.	Understand
MS 222.3	Solve the problems related neighborhood, limit points, sequence, infinite series, and The Riemann Integral.	Apply
MS 222.4	Analyse the problem related to neighborhood, limit points, sequence, infinite series, and The Riemann Integral.	Analyse
MS 222.5	Compare all the aspects of the neighborhood, limit points, sequence, infinite series, and The Riemann Integral.	Evaluate
MS 222.6	May integrate the fundamentals in the forms of theorems/corollary/lemma of neighborhood, limit points, sequence, infinite series, and The Riemann Integral etc.	Create

(Dr. Jitendra Binwal)

Signature of the Faculty

MODY UNIVERSITY
A Leading Women's University

School of Liberal Arts and Sciences

Course Outcomes

Course Name: Matrices and Theory of Equations

Course Code: MS 121

Year: B.Sc. (PCM)/B.Sc. (Honrs.) PCM I Yr

Semester: Autumn (1st)

Faculty Name: Dr. Jitendra Binwal

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MS 121.1	Define the different aspects of matrix with applications, solution of equations and theory of equations.	Remember
MS 121.2	Explain the properties related to matrix with applications, solution of equations and theory of equations.	Understand
MS 121.3	Solve the problems related matrix with applications, solution of equations and theory of equations.	Apply
MS 121.4	Analyse the problem related to matrix with applications, solution of equations and theory of equations.	Analyse
MS 121.5	Compare all the aspects of the matrix with applications, solution of equations and theory of equations.	Evaluate
MS 121.6	May integrate the fundamentals of matrix with applications, solution of equations and theory of equations in the interdisciplinary area just like science and engineering etc.	Create

12/11/19

(Dr. Jitendra Binwal)

Signature of the Faculty

MODY UNIVERSITY
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School of Liberal Arts and Sciences

Course Outcomes

Course Name: **Clinical and Therapeutic Nutrition**

Course Code: **FN 631**

Year: **2019-2020**

Semester: **M.Sc. F&N, (Third semester)**

Faculty Name: **Ms. Poornima Saraswat**

Department: **Biosciences, SLAS**

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FN 631.1	Basic concepts of therapeutic nutrition and types of diets.	Remember
FN 631.2	To understand how to assess nutritional fitness and identify nutritionally risked patients through various parameters.	Understand
FN 631.3	Nutritional assessment tools and biochemical data evaluation. Drug-nutrient and nutrient-drug interactions	Evaluate
FN 631.4	Management of various clinical conditions with their etiopathophysiology.	Understand
FN 631.5	Inborn errors of metabolism and other nutritional disorders.	Understand
FN 631.6	Build concept of Information on diet management for the clinical conditions.	Apply

Signature of the Faculty

MODY UNIVERSITY
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School of Liberal Arts and Sciences

Course Outcomes

Course Name: Public Health Nutrition

Course Code: FN 611

Year: 2019-2020

Semester: M.Sc. F&N, (Third semester)

Faculty Name: Ms. Poornima Saraswat

Department: Biosciences, SLAS

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FN 611.1	Basic concepts of public nutrition	Remember
FN 611.2	To understand Nutrition during life span.	Understand
FN 611.3	Compare the nutritional status and scope in emergency situations.	Evaluate
FN 611.4	Explain the role and importance of nutrition w.r.t interventions. (Health and food based)	Understand
FN 611.5	Requirements of health economics	Understand
FN 611.6	Build concept of Information Education and communication.	Apply

Signature of the Faculty

MODY UNIVERSITY
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School of Liberal Arts and Sciences

Course Outcomes

Course Name: **Human Nutrition**

Course Code: **FN 531**

Year: **2019-2020**

Semester: **M.Sc. F&N, (First semester)**

Faculty Name: **Ms. Poornima Saraswat**

Department: **Biosciences, SLAS**

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FN 531.1	Basic concepts of energy and functions of macronutrients.	Remember
FN 531.2	Describe the contents and properties of nutritional biochemistry elements such as Carbohydrates, Proteins, Fats, vitamins and minerals with their dynamic action and functions.	Understand
FN 531.3	Compare the dietary requirements and their pathways.	Evaluate
FN 531.4	Explain the role and importance of nutrition w.r.t deficiency and interactions.	Understand
FN 531.5	Requirements of non nutritive components in health effects	Understand
FN 531.6	Build concept of nutrition in gene expression and nutrition management.	Apply

Signature of the Faculty

MODY UNIVERSITY
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School of Liberal Arts/ School of Science

Course Outcomes

Course Name: **Nutritional Laboratory-III**

Course Code: **FN 352**

Year: **2019-2020**

Semester: **B.Sc. (H) F&N, (Sixth semester)**

Faculty Name: **Ms. Poornima Saraswat**

Department: **Biosciences, SLAS**

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FN 352.1	To learn how to calculate BMI and record anthropometric data.	Remember
FN 352.2	To learn to design food models with innovative ingredients	Understand
FN 352.3	To study the role of sugar concentration with emulsifying/solidifying agent in jams affecting its viscosity.	Evaluate
FN 352.4	How to estimate Nutritional profile in food sample and conduct sensory analysis as per hedonic scale	Understand
FN 352.5	How to evaluate food quality and recognition thresholds of flavours.	Understand
FN 352.6	How to estimate the enhancing appetite foods on a hunger scale.	Apply

Signature of the Faculty

MODY UNIVERSITY
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School of Liberal Arts and Sciences

Course Outcomes

Course Name: **Nutritional Laboratory-II**

Course Code: **FN 331**

Year: **2019-2020**

Semester: **B.Sc. (H) F&N, (Fifth semester)**

Faculty Name: **Ms. Poornima Saraswat**

Department: **Biosciences, SLAS**

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FN 331.1	Estimation of starch and fat qualitatively	Remember, Apply
FN 331.2	Preservation, antioxidation effect and properties of cheese variation from citric acid and acetic acid on diced fruits and milk.	Understand
FN 331.3	To study the role of starch and gluten in elasticity of wheat dough.	Evaluate
FN 331.4	Processing of coffee creates different flavours.	Understand
FN 331.5	To study protein denaturation effect.	Understand
FN 331.6	Isolation and quantification of pectin from fruits.	Apply

Signature of the Faculty

MODY UNIVERSITY
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School of Liberal Arts/ School of Science

Course Outcomes

Course Name: **Nutritional Laboratory-I**

Course Code: **FN 242**

Year: **2019-2020**

Semester: **B.Sc. (H) F&N, (Fourth semester)**

Faculty Name: **Ms. Poornima Saraswat**

Department: **Biosciences, SLAS**

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FN 242.1	To learn how to calculate BMI and record anthropometric data.	Remember
FN 242.2	Describe public nutrition topics in form of pamphlets, poster, slogans and advertisement that can impact common public.	Understand
FN 242.3	To study the role of sugar concentration with emulsifying/solidifying agent in jams affecting its viscosity.	Evaluate
FN 242.4	How to estimate total protein, type and content of fat in food sample through lowry and gravimetric method respectively.	Understand
FN 242.5	How to estimate total carbohydrates in food sample by DNS method.	Understand
FN 242.6	Build concept of types of protein present in milk and prepare two types of cheese with different procedures- By adding acetic acid and Rennin respectively. Compare the two cheese structures formed.	Apply

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Course Outcomes

Course Name: **Family Nutrition**

Course Code: **FN 221**

Year: **2019-2020**

Semester: **B.Sc. (H) F&N, (Third semester)**

Faculty Name: **Ms. Poornima Saraswat**

Department: **Biosciences, SLAS**

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FN 221.1	Define family nutrition and elaborate its applications on energy systems.	Remember
FN 221.2	Describe the contents and dietary requirements according to different stages of life.	Understand
FN 221.3	Compare and understand nutritional requirement and RDA for different age groups.	Evaluate
FN 221.4	Factors influencing food intake, Dietary habits and nutritional disorders.	Understand
FN 221.5	Additional nutritional requirements in pregnancy, lactation and old age.	Understand
FN 221.6	Dietary requirements for the family and concept of malnutrition assessment.	Apply

Signature of the Faculty

MODY UNIVERSITY
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School of Liberal Arts/ School of Science

Course Outcomes

Course Name: **Public Health Nutrition**

Course Code: **FN 212**

Year: **2019-2020**

Semester: **B.Sc. (H) F&N, (Fourth semester)**

Faculty Name: **Ms. Poornima Saraswat**

Department: **Biosciences, SLAS**

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FN 212.1	Define Public Health and nutrition and elaborate its applications and tools	Remember
FN 212.2	Describe the contents and properties of public health nutrition prospects	Understand
FN 212.3	Compare the types and structure of Indian Public health system.	Evaluate
FN 212.4	Explain the role and importance of Public health nutrition, food security and its policies in India	Understand
FN 212.5	Discuss health care delivery system and primary health care.	Understand
FN 212.6	Build concept of public nutrition according to dietary patterns, nutrition transitions and socio economic factors of food security.	Apply

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MODY UNIVERSITY
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School of Liberal Arts and Sciences

Course Outcomes

Course Name: **Nutrition through life**

Course Code: **FN 121**

Year: Autumn

Semester: **B.Sc. (H) F&N, (First semester)**

Faculty Name: **Ms. Poornima Saraswat**

Department: **Biosciences, SLAS**

CO Number	**Course Outcome statement** At the completion of the course, student will be able to	**Taxonomy Level**
FN 121.1	Principles of meal planning:	Understand
FN 121.2	Nutrient requirements: Definition, RDA (Recent)	Remember
FN 121.3	Compare and understand nutritional requirement and RDA for different age groups.	Evaluate
FN 121.4	Factors influencing food intake, Dietary habits and nutritional disorders.	Understand
FN 121.5	Lactation physiology	Understand
FN 121.6	nutritional concerns and healthy food choices	Apply

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Course Outcomes

Course Name: **Principle of Nutrition**

Course Code: **FN 111**

Year: Autumn

Semester: **B.Sc. (H) F&N, (First semester)**

Faculty Name: **Ms. Poornima Saraswat**

Department: **Biosciences, SLAS**

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FN 111.1	Understanding the dietary pattern for Indian foods	Understand
FN 111.2	Nutrition and Food Science – Definition, history, RDA (Recent)	Remember
FN 111.3	Compare and understand nutritional requirement and RDA for different age groups.	Evaluate
FN 111.4	Factors influencing food intake, Dietary habits and nutritional disorders.	Understand
FN 111.5	Macronutrients.	Understand
FN 111.6	Food processing technologies	Apply

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MODY UNIVERSITY
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School of Liberal Arts/ School of Science

Course Outcomes

Course Name: **Nutritional Biochemistry**

Course Code: **BC 522**

Year: **2019-2020**

Semester: **M.Sc. F&N, (Second semester)**

Faculty Name: **Ms. Poornima Saraswat**

Department: **Biosciences, SLAS**

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BC 522.1	Basic concepts and functions of nutrition.	Remember
BC 522.2	Describe the contents and properties of nutritional biochemistry elements such as Carbohydrates, Proteins, Fats, vitamins and minerals with their dynamic action and functions.	Understand
BC 522.3	Compare the dietary requirements and their pathways.	Evaluate
BC 522.4	Explain the role and importance of nutrition w.r.t Malnutrition.	Understand
BC 522.5	Requirements of nutrition in different physiological states.	Understand
BC 522.6	Build concept of nutrition in starvation and obesity and role of metabolism.	Apply

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MODY UNIVERSITY
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School of Liberal Arts/ School of Science

Course Outcomes

Course Name: **Nutritional Biochemistry and Clinical**

Course Code: **BC 311**

Year: ~~2020-2021~~ 2019-20

Semester: **B.Sc. (H) F&N, (Fifth semester)**

Faculty Name: **Ms. Poornima Saraswat**

Department: **Biosciences, SLAS**

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BC 311.1	Define basic concepts of nutritional Biochemistry	Remember
BC 311.2	Describe Micro and Macronutrients and their functions.	Understand
BC 311.3	Compare energy concept and calorific value of food.	Evaluate
BC 311.4	Explain the role clinical biochemistry in diagnosis and its scope.	Understand
BC 311.5	Discuss the types of biological samples collection and factors affecting the collection and analysis.	Understand and apply
BC 311.6	Build concept of diagnostic enzymology.	Apply

Poornima

Signature of the Faculty

School of Liberal Arts and Sciences

Course Outcomes

Course Name: Introduction to Sociology-I

Course Code: SO 111

Year: First

Semester: Autumn

Faculty Name: DR. RAMESH CHANDRA NAYAK

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
SO 111.1	Explain the meaning, nature and scope of sociology-formalistic and synthetic school	Understand
SO 111.2	Remember the relationship of sociology with other social sciences	Remember
SO 111.3	Analyze Society, Community and Social Group	Analyze
SO 111.4	Understand Status and Role	Understand
SO 111.5	understand the meaning, agencies and theories of socialization	Understand
SO 111.6	Evaluate the meaning and characteristics of culture, theory of cultural lag, civilization, interrelationship and distinction between culture and civilization	Remember

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MODY UNIVERSITY
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School of Liberal Arts and Sciences

Course Outcomes

Course Name: **Social Thinkers-I**

Course Code: **SO 121**

Year: First

Semester: **Autumn**

Faculty Name: **DR. RAMESH CHANDRA NAYAK**

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
SO 121.1	Explicate positivism and the law of three stages	Analyze
SO 121.2	Expound social statics and social dynamics	Understand
SO 121.3	Examine the evolutionary doctrine	Analyze
SO 121.4	Explain the theory of organic analogy	Understand
SO 121.5	Discuss the theories of social action and AGIL	Understand
SO 121.6	Remember the pattern variables	Remember

Signature of the faculty

MODY UNIVERSITY
LAKSHMANGARH · RAJASTHAN
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School of Liberal Arts and School of Science

Course Outcomes

Course Name: Introduction to Sociology-I

Course Code: SO131

Year: First

Semester: Autumn

Faculty Name: DR. RAMESH CHANDRA NAYAK

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
SO131.1	Concept, emergence, nature and scope of sociology-Formalistic and Synthetic School	Apply
SO131. 2	Alex Inkel_s approach to the subject matter of sociology.	Understand
SO131.3	Relation of Sociology with Psychology, History, Economics, Political Science	Understand
SO131.4	The Concepts of Society and Community and difference between them	Understand
SO131.5	The Concepts of Status, Role and socialization and Individual and society interrelationships	Apply
SO131.6	cultural and Civilization	Understand

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MODY UNIVERSITY
LAKSHMANGARH • RAJASTHAN
A Leading Women's University

School of Liberal Arts and Sciences

Course Outcomes

Course Name: Introduction to Sociology-II

Course Code: SO132

Year: First

Semester: Spring

Faculty Name: DR. RAMESH CHANDRA NAYAK

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
SO132.1	Family-Concept, characteristics, functions, types, recent changes in the family system	Apply
SO132.2	Marriage-Concept, causes, characteristics, types-monogamy and polygamy.	Understand
SO132.3	Social Stratification-Concept, attributes, bases and theories-Marxian, Weberian and Functionalistic	Understand
SO132.4	Social Stratification-M.M.Tumins criticism, Social Mobility-concept and types	Understand
SO132.5	Social Control-Concept, nature, purposes	Apply
SO132.6	Social Control-Agencies of social control-Formal and informal.	Understand

Signature of the faculty

MODY UNIVERSITY
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School of Liberal Arts and Sciences

Course Outcomes

Course Name: Classical Thought-I

Course Code: SO 141

Year: First

Semester: Autumn

Faculty Name: DR. RAMESH CHANDRA NAYAK

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
SO 141.1	Explicate Auguste Comte's intellectual background, law of three stages and positivism	Analyze
SO 141.2	Discuss the hierarchy of sciences, social statics and dynamics	Remember
SO 141.3	Expound Herbert Spencer's intellectual background, the evolutionary doctrine	Understand
SO 141.4	Explain the theory of organic analogy and social Darwinism	Evaluate
SO 141.5	Discuss Vilfredo Pareto's intellectual background, residues and derivations	Understand
SO 141.6	Understand logical and non-logical actions and the circulation of élites	Analyze

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Course Outcomes

Course Name: Classical Thought-II

Course Code: SO 142

Year:First

Semester: Spring

Faculty Name: DR. RAMESH CHANDRA NAYAK

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
SO 142.1	Describe Historical Materialism	Understand
SO 142.2	Explain Class and Theory of Class Struggle	Understand
SO 142.3	Examine Social Action and Ideal Type	Apply
SO 142.4	interpret Protestant Ethics and Spirit of Capitalism	Understand
SO 142.5	Illustrate Social Fact, Suicide	Apply
SO 142.6	Examine Division of Labour in society	Apply

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Course Outcomes

Course Name: Methodology of Social Research-I

Course Code: SO211

Year: Second

Semester: Autumn

Faculty Name: DR. RAMESH CHANDRA NAYAK

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
SO211 .1	Meaning, Scope and Significance of Social Research, Scientific Method, Difference between Social Research and Social Survey	Understand
SO211 .2	Meaning and Purpose of Research Design	Understand
SO211 .3	Types - Exploratory, Descriptive and Experimental Research Design	Apply
SO211 .4	Meaning and Characteristics of Sampling	Understand
SO211 .5	Steps in Sampling Design, Types of Sampling - Random, Stratified, Cluster and Multi-stage Sampling	Apply
SO211 .6	Meaning and Procedure of Hypothesis, Types of Hypothesis	Apply

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Course Outcomes

Course Name: Methodology of Social Research-II

Course Code: SO212

Year: Second

Semester: Spring

Faculty Name: DR. RAMESH CHANDRA NAYAK

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
SO212.1	Describe Observation and its Characteristics	Understand
SO212.2	Use Participant, Non- participant and Quasi- participant Observation	Apply
SO212.3	Summarize the Meaning, Objectives of Interview method	Understand
SO212.4	Examine the Techniques of Interview Method and its Types	Apply
SO212.5	Describe interview and examine its Construction and Application	Apply
SO212.6	Illustrate Tabulation, Interpretation of Data and Steps in writing Report	Apply

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Course Outcomes

Course Name: Sociological Theories-I

Course Code: SO221

Year: Second

Semester: Autumn

Faculty Name: DR. RAMESH CHANDRA NAYAK

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
SO221.1	Radcliffe-Brown's idea of Social Structure	Apply
SO221.2	Malinowski's Functional Analysis	Apply
SO221.3	Empirical Functionalism-Merton's Theory of Middle Range, Merton's critique and reformulation of Functional analysis	Understand
SO221.4	Marxian Conflict Theory	Understand
SO221.5	Coser's Functional Analysis of Conflict	Apply
SO221.6	**Sociology of Knowledge of** Karl Mannheim	Understand

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Course Outcomes

Course Name: Sociological Theories-II

Course Code: SO222

Year: FIRST

Semester: SPRING

Faculty Name: DR. RAMESH CHANDRA NAYAK

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
SO222.1	Apply A. Schutz's Phenomenological approach	Apply
SO222.2	Illustrate H.Ganfinkel's Ethnomethodology	Apply
SO222.3	Describe G.H. Mead's Symbolic Interactionism	Understand
SO222.4	Explain H. Blumer'sSymbolic Interactionism	Understand
SO222.5	Apply the Verstehen Approach	Apply
SO222.6	Discuss Homans' Psychological Exchange Perspective and Blau's Structural Exchange Theory.	Understand

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Course Outcomes

Course Name: Gender and Society-II

Course Code: SO312

Year: Third

Semester:Spring

Faculty Name: DR. RAMESH CHANDRA NAYAK

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
SO312.1	Describe the status of women in India during pre-colonial, colonial and post-colonial periods	Remember
SO312.2	Describe the Sex ratio in India with emphasis on Child Sex ratio.	Remember
SO312.3	interpret the Marginalization of Women and Sexual Division of Labour	Understand
SO312.4	Examine critically the Reservation for Women, Marriage, Dowry and right to Property	Apply
SO312.5	Examine Women's Health and Education	Apply
SO312.6	Interpret Domestic Violence	Understand

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Course Outcomes

Course Name: Indian Society-I

Course Code: SO321

Year: Third

Semester: AUTUMN

Faculty Name: DR. RAMESH CHANDRA NAYAK

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
SO321.1	Sanskritisation, Westernisation and Modernisation	Understand
SO321.2	Hindu Marriage- a sacrament, Types and changing patterns; Muslim Marriage- a contact, Types and changing patterns	Remember
SO321.3	Divorce among Muslims, Differences between Hindu and Muslim Marriages.	Understand
SO321.4	Meaning and Types of Kinship, Kinship Behaviour and Usages, Classificatory Terminology of Kinship	Understand
SO321.5	Origin and changing dimensions of Varna and Jati	Apply
SO321.6	Functions, Roles and Changes in Jajmani System	Understand

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Course Outcomes

Course Name: Society in India-II

Course Code: SO322

Year: SECOND

Semester: AUTUMN

Faculty Name: DR. RAMESH CHANDRA NAYAK

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
SO322.1	Describe Ashramas and Purusharthas	Understand
SO322.2	Describe Religious, Linguistic and Religious diversity in India	Remember
SO322.3	Interpret Communalism, Regionalism, Casteism and Regionalism as the emerging social Problems in India	Understand
SO322.4	Explain Tribal Religious beliefs and practices in India	Understand
SO322.5	Illustrate Tribal problems in India	Apply
SO322.6	Describe Population explosion and its causes, remedies, Population Policy and Sustainable Development	Understand

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Course Outcomes

Course Name: Principles of Criticism I

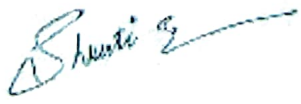
Course Code: EL661

Year: MA Second

Semester: Third

Faculty Name: Dr Shruti Soni

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
EL661.1	Deep Understanding of English Literary Criticism.	Remember
EL661.2	Widens the knowledge of literary and focuses on their importance	Evaluate
EL661.3	Ingrains the mind towards creative writing, appreciation, critical thinking and critical analysis	Remember
EL661.4	Accentuates expression of thoughts and views for critical appreciation and judgmental reviews	Applicable
EL661.5	Deep understanding of all the literary ages	Understand
EL661.6	Provides an insight of practical criticism	Analyze



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Course Outcomes

Course Name: Creative & Technical Writing

Course Code: EL592

Year: MA SECOND

Semester: II

Faculty Name: Dr Shruti Soni

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
EL592.1	Create, evaluate and use English language teaching materials.	Evaluate
EL592.2	To understand the foundation of English as a language	Understand
EL592.3	To get acquainted with the new literary techniques for the development of academic and creative writing	Understand
EL592.4	Build a Cross-cultural understanding and confidence in using the second language	Understand
EL592.5	To develop and analyze the literal and critical tastes	Applicable
EL592.6	To channelize energy through soft skills and Value orientation	Applicable

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Course Outcomes

Course Name: New Literature in English

Course Code: EL321

Year: BA Third

Semester: Fifth

Faculty Name: Dr Shruti Soni

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
EL321.1	To understand the development of literature	Understand
EL321.2	To understand the chief characteristics of New Literature in English	Understand
EL321.3	To get acquainted with the new literary figures in the world of English Literature	Remember
EL321.4	To analyze the poems of the times	Analyze
EL321.5	Can interpret texts in relation to their historical and cultural contexts	Evaluate
EL321.6	Comprehend the difference of a life lived in a postcolonial era and the life lived in a c colonial context.	Understand

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Course Outcomes

Course Name: Literary Criticism

Course Code: EL322

Year: BA Third

Semester: VI

Faculty Name: Dr Shruti Soni

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
EL322.1	Introduces to the basics of Literary Criticism.	Remember
EL332.2	Widens the knowledge of literary criticism of Aristotle age	Evaluate
EL332.3	Ingrains the mind towards creative writing, appreciation, critical thinking and critical analysis	Understand
EL322.4	Accentuates expression of thoughts and views for critical appreciation and judgmental reviews	Applicable
EL322.5	Deep understanding of Literary criticism of all ages	Understand
EL322.6	Provides an insight of practical criticism	Analyze

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Course Outcomes

Course Name: English Fiction I

Course Code: EL221

Year: BA Second

Semester: II

Faculty Name: Dr Shruti Soni

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
EL221.1	Exposed to different cultures, myths, and histories of various nations through fiction.	Understand
EL221.2	To analyze social, political, and cultural backgrounds in the context of the prescribed novels	Analyze
EL221.3	Develop the ability and interest to read literary prose and fiction on their own.	Applicable
EL221.4	To evaluate how society and culture played a significant role in the lives and career of the writers of the age	Evaluate
EL221.5	To understand the Indian intricacies regarding love, family, relationship, hatred etc.	Understand
EL221.6	Receive creative acumen and will be nourished by the scintillating stories and a sense of inclination towards literary sensibility.	Create

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Course Outcomes

Course Name: Modern English Grammar and Usage

Course Code: EL551

Year: MA First

Semester: Autumn 19-20

Faculty Name: Dr Shruti Soni

CO Number	Course Outcome statement At the completion of the course, student will be able:	Taxonomy Level
EL551.1	Create, evaluate and use English language teaching materials.	Evaluate
EL551.2	To understand the foundation of English as a language	Understand
EL551.3	To get acquainted with the new literary techniques for the development of academic and creative writing	Remember
EL551.4	Build and analyze the Cross-cultural understanding and confidence in using the second language	Analyze
EL551.5	To develop the literal and critical tastes	Applicable
EL551.6	Kindles creative mind with innovative thoughts	Applicable

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Course Outcomes

Course Name: Women Studies

Course Code: EL 692

Year: Second

Semester: Fourth

Faculty Name: Dr. Priti Vyas

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
EL 692.1	Study a selection of novels and short stories that focus on women's lives.	Remember
EL 692.2	Examine how women's texts pay attention to the historical and political conditions of their times.	Analyse
EL 692.3	Know some of the developments, themes, and narrative strategies of women's writings.	Understand
EL 692.4	Appreciate the ways in which the feminist writings embody a politics of resistance.	Analyse
EL 692.5	Reflect on what it means to be a woman and feminist from gender, racial, class, and national perspectives.	Evaluate
EL 692.6	Study gender based social inequities effectively to suggest solutions based on feminist methodologies.	Create

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Course Outcomes

Course Name: Translation Studies

Course Code: EL 691

Year: Second

Semester: First

Faculty Name: Dr. Priti Vyas

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
EL 691.1	Developing an understanding of the Origin and Development of Translation Studies in India and Abroad.	Remember
EL 691.2	Understanding the different types of translations	Understand
EL 691.3	Understanding & Evaluating the Interrelationship of Lan. & Culture.	Evaluate
EL 691.4	Assessing the Concepts of Translators' Invisibility and Equivalence	Evaluate
EL 691.5	Apply the different concepts of Translation in Self-translation	Apply
EL 691.6	Develop an informed appreciation of different philosophical theories of translation	Understand

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Course Outcomes

Course Name: Literature and Society-II

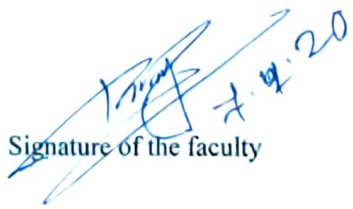
Course Code: EL 672

Year: Second

Semester: Fourth

Faculty Name: Dr. Priti Vyas

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
EL 672.1	Realize the importance of literature in fostering social reflection.	Remember
EL 672.2	Comprehension of literary traditions and conventions of the Victorian Society.	Remember
EL 672.3	Discuss and analyse the prominent Victorian movements like Oxford and Naughty Nineties.	Understand
EL 672.4	Examine the ways in which literary texts address the past and changing social norms during the Victorian Era.	Evaluate
EL 672.5	Appreciate the Women's Liberation Movement to identify major influences within key historic feminist movements.	Understand
EL 672.6	Identify, analyze, interpret and describe the critical ideas, values, and themes that appear in the literary texts of the Victorian Era.	Understand



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Course Outcomes

Course Name: Literature and Society-I

Course Code: EL 671

Year: Second

Semester: Third

Faculty Name: Dr. Priti Vyas

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
EL 671.1	Realize the importance of literature in fostering social reflection.	Remember
EL 671.2	Comprehension of literary, social, political and economic traditions and conventions of the Anglo Saxon and Anglo Normans.	Remember
EL 671.3	Discuss and analyse the prominent aspects of Medieval Life & Wars	Understand
EL 671.4	Examine the ways in which literary texts address the past and changing social norms in English Society.	Evaluate
EL 671.5	Appreciate the emergence of Reformation & Renaissance in England.	Understand
EL 671.6	Discussion & interpretation of different literary trends, social & economic movements from Jacobeans to Victorians	Understand

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Course Outcomes

Course Name: Indian Writing in Translation

Course Code: EL 613

Year: Second

Semester: First

Faculty Name: Dr. Priti Vyas

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
EL 613.1	Developing an understanding of the Origin and Development of Translation Studies in India.	Understand
EL 613.2	Understanding the different types of translations	Understand
EL 613.3	Know some of the developments, themes, and narrative strategies of Indian writings in English.	Remember
EL 613.4	Appreciate the ways in which the Indian Writing in English embodies the diversity of the nation.	Apply
EL 613.5	Reflect on what it means to be an Indian from gender, racial, class, and national perspectives.	Analyse
EL 613.6	Learn to read, analyze and appreciate poetry, drama, novel and essays critically	Evaluate

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Course Outcomes

Course Name: **Indian Writing in English**

Course Code: EL 591

Year: First

Semester: First

Faculty Name: Dr. Priti Vyas

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
EL 591.1	Study a selection of novels which focuses on the understanding of Colonialism and Postcolonialism	Understand
EL 591.2	Examine how Indian Writing in English explores various social, economic, historical and political conditions.	Analyse
EL 591.3	Know some of the developments, themes, and narrative strategies of Indian writings in English.	Understand
EL 591.4	Appreciate the ways in which the Indian Writing in English embodies the diversity of the nation.	Analyse
EL 591.5	Reflect on what it means to be an Indian from gender, racial, class, and national perspectives.	Evaluate
EL 591.6	Learn to read, analyze and appreciate poetry, drama, novel and essays critically	Understand

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Course Outcomes

Course Name: Introduction to Linguistics and Phonetics

Course Code: EL 562

Year: First

Semester: Second

Faculty Name: Dr. Priti Vyas

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
EL 562.1	Comprehend the relationship between written and spoken language.	Understand
EL 562.2	Gain an appreciation of the different fields of linguistics and its main sub-fields.	Remember
EL 562.3	Use the International Phonetic Alphabets (IPA) to transcribe English phonetically.	Apply
EL 562.4	Comprehend the characteristic features of human language and their social and cultural effects on communication.	Understand
EL 562.5	Perform phonemic and morphological analysis to determine the phonemes and allophones of English language.	Analyse
EL 562.6	Have an understanding of the core components of linguistics like phonology, morphology, syntax and semantics.	Remember

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Course Outcomes

Course Name: Comparative Literature

Course Code: EL 514

Year: First

Semester: Second

Faculty Name: Dr. Priti Vyas

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
EL 514.1	Have knowledge of different methods of analyzing literature.	Remember
EL 514.2	Analyse the role of translation studies in comparative literature.	Analyse
EL 514.3	Realize the importance of reading literary texts in their cultural context.	Understand
EL 514.4	Demonstrate a greater understanding of different literary genres and their functions.	Understand
EL 514.5	Have a deeper and better understanding of the interdisciplinarity of comparative Literature.	Evaluate
EL 514.6	Develop an informed appreciation of cross-cultural interconnections and Historicity of literary outputs.	Develop

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Course Outcomes

Course Name: Twentieth Century English Literature-II

Course Code: EL 362

Year: Third

Semester: Sixth

Faculty Name: Dr. Priti Vyas

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
EL 362.1	Learn to read, analyze and appreciate poetry critically.	Understand
EL 362.2	Discuss the significant figures and events of the modern period.	Understand
EL 362.3	Have an understanding of the major Literary and Cultural Trends in poetry and novel.	Remember
EL 362.4	Recognize the rhythms, metrics and other musical aspects of poetry.	Evaluate
EL 362.5	Have an understanding of the circumstances that shape the processes of literary production during the twentieth century.	Analyse
EL 362.6	Know about the diverse literary devices and strategies employed by the modern writers.	Evaluate

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Course Outcomes

Course Name: Twentieth Century English Literature-I

Course Code: EL 361

Year: Third

Semester: Fifth

Faculty Name: Dr. Priti Vyas

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
EL 361.1	Learn to read, analyze and appreciate poetry and drama critically.	Understand
EL 361.2	Discuss the significant figures and events of the period.	Understand
EL 361.3	Have an understanding of the major Literary and Cultural Trends in poetry and drama.	Remember
EL 361.4	Recognize the rhythms, metrics and other literary aspects of poetry and drama.	Analyse
EL 361.5	Have an understanding of the circumstances that shape the processes of literary production during the twentieth century.	Understand
EL 361.6	Know about the diverse poetic devices and strategies employed by the poets and dramatist.	Evaluate

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Course Outcomes

Course Name: Victorian Literature

Course Code: EL 352

Year: First

Semester: Second

Faculty Name: Dr. Priti Vyas

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
EL 352.1	Recognize the rhythms, metrics and other musical aspects of poetry.	Evaluate
EL 352.2	Know about the diverse literary devices and strategies employed by the Victorian writers.	Evaluate
EL 352.3	Explore the entire range of human experience through novels as a literary form.	Analyse
EL 352.4	Learn to read, analyze and appreciate poetry critically.	Understand
EL 352.5	Discuss the significant figures and events of the Victorian period.	Understand
EL 352.6	Have an understanding of the major Literary and Cultural Trends in of Victorian poetry and novel.	Remember

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Course Outcomes

Course Name: English Fiction-II

Course Code: EL 222

Year: Second

Semester: Fourth

Faculty Name: Dr. Priti Vyas

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
EL 222.1	Analyze novel as a form of literary expression.	Analyse
EL 222.2	Develop an appreciation for the art and craft of Fiction.	Create
EL 222.3	Utilize close reading as a primary skill of literary analysis.	Apply
EL 222.4	Develop critical thinking and imagination through long fiction.	Create
EL 222.5	Know how to read both formal and thematic aspects of fiction in relationship to larger cultural and historical movements.	Remember
EL 222.6	Learn human values and the behavioral patterns from great works of art to develop the ability of understanding human race.	Understand

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Course Outcomes

Course Name: English Drama-II

Course Code: EL 212

Year: Second Year

Semester: Fourth

Faculty Name: Dr. Priti Vyas

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
EL 212.1	Learn the creative usages of English language.	Apply
EL 212.2	Explain the various themes and forms of drama at different ages and stages.	Understand
EL 212.3	Discuss and explain major theories of performance from Aristotle to the present day.	Understand
EL 212.4	Discuss the impact of modern philosophies like Existentialism, Expressionism, Marxism and Absurdism on drama.	Evaluate
EL 212.5	Have knowledge of historical, socio-political, and religious trends in the plays.	Remember
EL 212.6	Explore the entire range of human experience through dramas as a literary form.	Analyse

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Course Outcomes

Course Name: English Drama-I

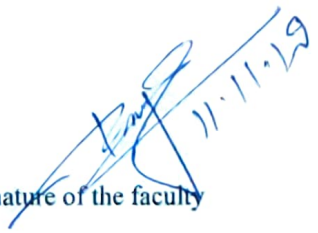
Course Code: EL 211

Year: Second Year

Semester: THIRD

Faculty Name: Dr. Priti Vyas

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
EL 211.1	Learn the creative usages of English language.	Apply
EL 211.2	Explain the various themes and forms of drama from Elizabethan to Victorian.	Understand
EL 211.3	Discuss and explain major theories of performance from Elizabethans to Victorians.	Understand
EL 211.4	Discuss the impact of different literary theories like Feminism, Psychoanalysis, and Victorianism on drama.	Evaluate
EL 211.5	Have knowledge of historical, socio-political, economic and religious trends in the plays.	Remember
EL 211.6	Explore the entire range of human experience through dramas as a literary form.	Analyse



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Course Outcomes

Course Name: Real Analysis and Measure Theory (MS 631)

Course Code: MS 631

Program: M.Sc. II Yr

Semester: Autumn (3rd) 2019-2020

Faculty Name: Dr. Rishi Kumar Pandey

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MS 631.1	describe fundamental properties of the real numbers that lead to the formal development of real analysis	Remember
MS 631.2	Understand and be able to communicate the underlying comprehend rigorous arguments developing the theory underpinning real analysis;	Understand
MS 631.3	Solve the problems and demonstrate an understanding of limits and how they are used in sequences, series, differentiation and integration.	Apply
MS 631.4	Analyze the problem related to construct rigorous mathematical proofs of basic results in real analysis and measure theory.	Analyze
MS 631.5	Evaluate the problem related to construct rigorous mathematical proofs of basic results in real analysis and measure theory.	Evaluate
MS 631.6	Appreciate how abstract ideas and rigorous methods in mathematical analysis can be applied to important practical problems.	Create

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School of Liberal Arts and Science (SLAS)

Course Outcomes

Course Name: Ordinary Differential Equations

Course Code: MS 561

Program: M.Sc. I Yr

Semester: Autumn (2nd) 2019-2020

Faculty Name: Dr. Rishi Kumar Pandey

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MS 631.1	Define the different aspects of second order differential equations, non-linear ordinary differential equations, total differential equations, power series solutions, existence and uniqueness of initial value problems etc.	Remember
MS 631.2	Explain the properties related to second order differential equations, non-linear ordinary differential equations, total differential equations, power series solutions, existence and uniqueness of initial value problems etc.	Understand
MS 631.3	Solve the problems related to second order differential equations, non-linear ordinary differential equations, total differential equations, power series solutions, existence and uniqueness of initial value problems etc.	Apply
MS 631.4	Analyse the problem related to second order differential equations, non-linear ordinary differential equations, total differential equations, power series solutions, existence and uniqueness of initial value problems etc..	Analyze
MS 631.5	Compare all the aspects of the second order differential equations, non-linear ordinary differential equations, total differential equations, power series solutions, existence and uniqueness of initial value problems etc.	Evaluate
MS 631.6	May integrate the fundamentals of second order differential equations, non-linear ordinary differential equations, total differential equations, power series solutions, existence and uniqueness of initial value problems etc.	Create

Rishi
12/11/19

MODY UNIVERSITY
A Leading Women's University

School of Business (SOB)

Course Outcomes

Course Name: Differential Equations-II
Course Code: MS 221

Program: B.Sc. II Yr

Semester: Autumn (2nd) 2019-2020

Faculty Name: Dr. Rishi Kumar Pandey

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MS 631.1	Define the different aspects of Partial Differential equations, Second and higher Order PDE, Solution of Second order PDE, Monge's method.	Remember
MS 631.2	Explain the properties related to Partial Differential equations, Second and higher Order PDE, Solution of Second order PDE, Monge's method.	Understand
MS 631.3	Solve the problems related to Partial Differential equations, Second and higher Order PDE, Solution of Second order PDE, Monge's method.	Apply
MS 631.4	Analyse the problem related to Partial Differential equations, Second and higher Order PDE, Solution of Second order PDE, Monge's method.	Analyze
MS 631.5	Compare all the aspects of the Partial Differential equations, Second and higher Order PDE, Solution of Second order PDE, Monge's method.	Evaluate
MS 631.6	May integrate the fundamentals of Partial Differential equations, Second and higher Order PDE, Solution of Second order PDE, Monge's method.	Create

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(Dr. Rishi Kumar Pandey)

Signature of the Faculty

MODY UNIVERSITY
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School of Liberal Arts Sciences

Course Outcomes

Course Name: PROGRAMMING IN C++

Course Code: FS 323

Year: B.Sc. Forensic Science III Year

Semester: Spring (5th)

Faculty Name: Dr. Rishi Kumar Pandey

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MS 322.1	Define the different aspects of introduction, pointers, arrays and structures, functions, classes etc.	Remember
MS 322.2	Explain the properties related to introduction, pointers, arrays and structures, functions, classes etc.	Understand
MS 322.3	Solve the problems related to introduction, pointers, arrays and structures, functions, classes etc.	Apply
MS 322.4	Analyse the problem related to introduction, pointers, arrays and structures, functions, classes etc.	Analyse
MS 322.5	Compare all the aspects of the introduction, pointers, arrays and structures, functions, classes etc.	Evaluate
MS 322.6	May integrate the fundamentals of introduction, pointers, arrays and structures, functions, classes etc..	Create

(Dr. Rishi Kumar Pandey)

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MODY UNIVERSITY
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School of Liberal Arts and Sciences

Course Outcomes

Course Name: Inequality and Continued Fractions

Course Code: MS 622

Program: M.Sc. II Yr

Semester: Spring (2nd) 2019-2020

Faculty Name: Dr. Rishi Kumar Pandey

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MS 631.1	Define the different aspects of inequalities, different form of continued fractions, difference between the fraction and its convergent, different theorems based on odd and even convergent.	Remember
MS 631.2	Explain the properties related to inequalities, different form of continued fractions, difference between the fraction and its convergent, different theorems based on odd and even convergent.	Understand
MS 631.3	Solve the problems related to inequalities, different form of continued fractions, difference between the fraction and its convergent, different theorems based on odd and even convergent.	Apply
MS 631.4	Analyse the problem related to inequalities, different form of continued fractions, difference between the fraction and its convergent, different theorems based on odd and even convergent.	Analyze
MS 631.5	Compare all the aspects of the inequalities, different form of continued fractions, difference between the fraction and its convergent, different theorems based on odd and even convergent.	Evaluate
MS 631.6	May integrate the fundamentals of inequalities, different form of continued fractions, difference between the fraction and its	Create

	convergent, different theorems based on odd and even convergent.	

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School of Liberal Arts and Sciences

Course Outcomes

Course Name: Partial Differential Equations

Course Code: MS 542

Program: M.Sc. I Yr

Semester: Autumn (2nd) 2019-2020

Faculty Name: Dr. Rishi Kumar Pandey

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MS 542.1	Define the different aspects of second order partial differential equations, Laplace equation, heat equation, wave equation, Green's functions, Laplace and Fourier transforms.	Remember
MS 542.2	Explain the properties related to second order partial differential equations, Laplace equation, heat equation, wave equation, Green's functions, Laplace and Fourier transforms.	Understand
MS 542.3	Solve the problems related to second order partial differential equations, Laplace equation, heat equation, wave equation, Green's functions, Laplace and Fourier transforms.	Apply
MS 542.4	Analyse the problem related to second order partial differential equations, Laplace equation, heat equation, wave equation, Green's functions, Laplace and Fourier transforms.	Analyze
MS 542.5	Compare all the aspects of the second order partial differential equations, Laplace equation, heat equation, wave equation, Green's functions, Laplace and Fourier transforms.	Evaluate
MS 542.6	May integrate the fundamentals of second order partial differential equations, Laplace equation, heat equation, wave equation, Green's functions, Laplace and Fourier transforms.	Create

10/03/2020

MODY UNIVERSITY
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School of Liberal Arts and Sciences (SLAS)

Course Outcomes

Course Name: Graph Theory

Course Code: MS 342

Program: B.Sc. Honors (Mathematics) III Year

Semester: Autumn (6th) 2019-2020

Faculty Name: Dr. Rishi Kumar Pandey

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MS 342.1	Define the different aspects of graphs, directed graphs, Trees, Cut-Sets and Cut-Vertices, Planarity, Matching, circuits.	Remember
MS 342.2	Explain the properties related to graphs, directed graphs, Trees, Cut-Sets and Cut-Vertices, Planarity, Matching, circuits	Understand
MS 342.3	Solve the problems related graphs, directed graphs, Trees, Cut-Sets and Cut-Vertices, Planarity, Matching, circuits	Apply
MS 342.4	Analyse the problem related to graphs, directed graphs, Trees, Cut-Sets and Cut-Vertices, Planarity, Matching, circuits	Analyse
MS 342.5	Compare all the aspects of the graphs, directed graphs, Trees, Cut-Sets and Cut-Vertices, Planarity, Matching, circuits	Evaluate
MS 342.6	May integrate the fundamentals of graphs, directed graphs, Trees, Cut-Sets and Cut-Vertices, Planarity, Matching, circuits etc.	Create

Rishi
10/03/2020

Dr. Rishi Kumar Pandey, (Assistant Professor, Department of Mathematics, SLAS, MUST);
Faculty Cabin ABB F-414, M.:8982680811, Email: rishipandey9@gmail.com;

MODY UNIVERSITY
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School of Liberal Arts Sciences

Course Outcomes

Course Name: Dynamics and Mechanics

Course Code: MS 322

Year: B.Sc. Honors (Mathematics)/B.Sc. (PCM) III Year

Semester: Spring (6th)

Faculty Name: Dr. Rishi Kumar Pandey

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MS 322.1	Define the different aspects of velocities and accelerations, rectilinear motion, coplanar forces, rigid body dynamics.	Remember
MS 322.2	Explain the properties related to velocities and accelerations, rectilinear motion, coplanar forces, rigid body dynamics.	Understand
MS 322.3	Solve the problems related to velocities and accelerations, rectilinear motion, coplanar forces, rigid body dynamics.	Apply
MS 322.4	Analyse the problem related to velocities and accelerations, rectilinear motion, coplanar forces, rigid body dynamics.	Analyse
MS 322.5	Compare all the aspects of the velocities and accelerations, rectilinear motion, coplanar forces, rigid body dynamics.	Evaluate
MS 322.6	May integrate the fundamentals of velocities and accelerations, rectilinear motion, coplanar forces, rigid body dynamics.	Create

(Dr. Rishi Kumar Pandey)

Signature of the Faculty

Dr. Rishi Kumar Pandey, (Assistant Professor, Department of Mathematics, SLAS, MUST);
Faculty Cabin ABB F-414, M.:8982680811, Email: rishipandey9@gmail.com;

MODY UNIVERSITY
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School of Liberal Arts/ School of Science

Course Outcomes

Course Name: Physical Chemistry-I

Course Code: CH291

Year: 2019-20

Semester: Autumn

Faculty Name: Prof. Amlan Kumar Das

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH291.1	Understand the basics of thermodynamics	Understand
CH291.2	Analyze the difference between internal energy and enthalpy	Analyze
CH291.3	Create interrelation between entropy and disorder	Create
CH291.4	Apply thermodynamic rules in natural process	Apply
CH291.5	Evaluate the rate of reaction	Evaluate
CH291.6	Remember the postulate of collision theory	Remember

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Prof. Amlan Kumar Das
Signature of the faculty

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Course Outcomes

Course Name: Physical Chemistry Laboratory - I

Course Code: CH 591

Year: 2019-20

Semester: Autumn

Faculty Name: Prof. Amlan Kumar Das

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH591.1	Understand phase diagram of three component system	Understand
CH591.2	Analyze Beer's- Lambert law	Analyze
CH591.3	Create interrelation between heat of neutralization and enthalpy	Create
CH591.4	Apply the potentiometer to evaluate equilibrium constant	Apply
CH591.5	Evaluate specific and molar rotation of an optically active substance	Evaluate
CH591.6	Remember the basics of polarimeter	Remember

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Course Outcomes

Course Name: Physical Chemistry Laboratory II

Course Code: CH 582

Year: 2019-20

Semester: Spring

Faculty Name: Prof. Amlan Kumar Das

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH 582.1	Evaluate molar mass of polymer	Evaluate
CH 582.2	Determine order of complex reaction	Analyze
CH 582.3	Effect of hydrogen ion in chemical reaction	Create
CH 582.4	Standard electrode potential of the redox system	Apply
CH 582.5	Effect of temperature on surface tension	Understand
CH 582.6	Find Critical micelle concentration of soap	remember

Prof. Amlan Kumar Das 10/03/20
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MODY UNIVERSITY
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School of Liberal Arts/ School of Science

Course Outcomes

Course Name: Physical Chemistry II

Course Code: CH 532

Year: 2019-20

Semester: Spring

Faculty Name: Prof. Amlan Kumar Das

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH 532.1	Understand rules of adsorption	Understand
CH 532.2	Apply surface active agent for surface modification	Apply
CH 532.3	Types polymerization and application	Analyze
CH 532.4	Evaluate electrochemical reaction	Evaluate
CH 532.5	Rules of chemical dynamics	Remember
CH 532.6	Create different condition for chemical reaction	create

Prof. Amlan Kumar Das

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MODY UNIVERSITY
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School of Liberal Arts and Sciences

Course Outcomes

Course Name: Physical Chemistry -I

Course Code: CH 531

Year: 2019-20

Semester: Autumn

Faculty Name: Prof. Amlan Kumar Das

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH531.1	Understand the basics of quantum mechanics	Understand
CH531.2	Analyze various operator in quantum mechanics	Analyze
CH531.3	Apply quantum mechanics to find out energy of electron	Apply
CH531.4	Evaluate activity coefficient of electrolyte solution	Evaluate
CH531.5	Create the difference between reversible and irreversible thermodynamics	Create
CH531.6	Remember the postulates of irreversible thermodynamics	Remember

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Course Outcomes

Course Name: Physical Chemistry - III

Course Code: CH 371

Year: 2019-20

Semester: Autumn

Faculty Name: Prof. Amlan Kumar Das

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH371.1	Understand the basics of Quantum mechanics	Understand
CH371.2	Analyze quantum mechanical operator	Analyze
CH371.3	Create proper operator of the particular wavefunction	Create
CH371.4	Apply the techniques of spectroscopy	Apply
CH371.5	Evaluate the energy of rotational spectra	Evaluate
CH371.6	Remember the basic principles if vibrational spectra	Rememebr

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MODY UNIVERSITY
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School of Liberal Arts and Sciences

Course Outcomes

Course Name: Laboratory course in Chemistry-III

Course Code: CH 281

Year: Academic Year: 2019-20

Semester: Autumn

Faculty Name: Dr. Sarita Khaturia

At the end of the course, students will be able to

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH 281.1	Understand handling with various chemistry glasswares and chemicals in organic chemistry laboratory.	Understand
CH 281.2	Learn and prepare various solutions used in the chemistry laboratory	Create
CH 281.3	Determination of hardness of water by EDTA method and Alkalinity determination	Determine
CH 281.4	Determine heat of enthalpy	Analyze
CH 281.5	Explain the procedure of determination of Cu in brass	Explain
CH 281.6	Calculate percentage of CH_3COOH in vinegar and amount of alkali in antacid determination	Remember

Sarita
12/11/19

Dr. Sarita Khaturia
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School of Liberal Arts & Sciences

Course Outcomes

Course Name: Organic Chemistry-I

Course Code: CH 223

Year: B.Sc. II year 2019-20

Semester: III

Faculty Name: Dr. Sarita Khaturia

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH 223.1	Analyze the Molecular vibrations, selection rules, intensity and position of IR bands, characteristics absorption of various functional groups, analysis of UV spectra	Analyze
CH 223.2	Applications of UV-Visible spectroscopy and IR Spectroscopy	Apply
CH 223.3	Remember the Nomenclature, structure and bonding, Preparation of Phenols, Physical properties and acidic character. Comparative acidic strength of alcohols and phenols, resonance stabilization of phenoxide ion.	Remember
CH 223.4	Explain the Mechanisms of Fries rearrangement, Claisen rearrangement, Gatterman synthesis, Hauben-Hoesch reaction, Lederer Manasse reaction and Reimer Tiemann reaction. Oxidative cleavage [$Pb(OAc)_4$ and HIO_4] and Pinacol-Pinacolone rearrangement	Explain
CH 223.5	Interpretation of UV spectra and IR spectra of simple organic compounds	Evaluate
CH 223.6	Understand Nomenclature of ethers and methods of their formation, Physical properties, Chemical reactions-cleavage and auto oxidation, Ziesel's method. Synthesis of epoxides. Reactions of Grignard and organolithium reagents with epoxides	Understand

Dr. Sarita Khaturia

Signature of the faculty

MODY UNIVERSITY
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School of Liberal Arts & Sciences

Course Outcomes

Course Name: Inorganic Chemistry-I

Course Code: CH 213

Year: B.Sc. II year 2019-20

Semester: III

Faculty Name: Dr. Sarita Khaturia

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH 213.1	Analyze the complexes illustrating relative stability of their oxidation states	Analyze
CH 213.2	Apply the Werner's coordination theory and its experimental verification, effective atomic number concept, chelates, nomenclature of coordination compounds	Apply
CH 213.3	Remember the Characteristic properties of d-block elements.	Remember
CH 213.4	Explain the isomerism in coordination compounds, valence bond theory of transition metal complexes.	Explain
CH 213.5	Evaluate the Chemistry of Elements of Second and Third Transition Series their General characteristics, comparative treatment with their 3d-analogues in respect of ionic radii, oxidation states, magnetic behavior, spectral properties and stereochemistry.	Evaluate
CH 213.6	Understand the Chemistry of Lanthanide Elements their Electronic configuration, oxidation states and ionic radii and lanthanide contraction, complex formation, occurrence and isolation, lanthanide compounds.	Understand

3/11/19

Dr. Sarita Khaturia

Signature of the faculty

MODY UNIVERSITY
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School of Liberal Arts and Sciences

Course Outcomes

Course Name: American Literature

Course Code: EL 311

Year: Third

Semester: Autumn

Faculty Name: Dr. Sangeeta Jhajharia

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
EL 311.1	Remember major historical and cultural developments of colonial America	Remember
EL 311.2	Understand and demonstrate knowledge of foundational texts of Early American literature through 1860s.	Understand
EL 311.3	Appreciate poetry as a literary art and its various elements of poetry, such as diction, tone, form, genre, imagery, figures of speech, symbolism, theme, etc	Apply
EL 311.4	Use literary texts to examine the historical, cultural, and rhetorical contexts in which they were written.	Analyze
EL 311.5	Evaluate and discuss the roles which gender, race, age, class, ethnicity, wealth, poverty, and geography have played in creating American literature.	Evaluate
EL 311.6	Write clear, focused, coherent essays about literature for an academic audience, using standard English conventions of grammar and style.	Create

Signature of the faculty 12/11/2019.

MODY UNIVERSITY
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School of Liberal Arts and Sciences

Course Outcomes

Course Name: Literary Trends and Movements

Course Code: EL 312

Year: Third

Semester: Spring

Faculty Name: Dr. Sangeeta Jhajharia

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
EL 312.1	Describe major writers and their works in chronological order	Remember
EL 312.2	Understand how literature also influences the social and political history of each period	Understand
EL 312.3	Compare literary trends of one period with that of another	Apply
EL 312.4	Analyze how literary trends/movements emerge, function and dissolve, only to be reborn again	Analyze
EL 312.5	Evaluate and classify all major literary trends and movements	Evaluate
EL 312.6	Explore issues, controversies & themes rather than chronological periods and write a well-organized paragraph in order to answer a question	Create

10/3/2020

Signature of the faculty

MODY UNIVERSITY
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School of Liberal Arts and Sciences

Course Outcomes

Course Name: Modern English Language and Phonetics-II

Course Code: EL 332

Year: Third

Semester: Spring

Faculty Name: Dr. Sangeeta Jhajharia

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
EL 332.1	Learn the essentials of English Grammar and Phonemic symbols	Remember
EL 332.2	Understand the practical usage of the sounds and grammar of English in our speech and writing	Understand
EL 332.3	Apply the rules of grammar and phonetics to use flawless English in speech and writing	Apply
EL 332.4	Analyze, identify and rectify the common errors in speech and writing	Analyze
EL 332.5	Evaluate a piece of writing keeping in mind all the rules of grammar and phonetics studied	Evaluate
EL 332.6	Develop Proficiency in English through meaningful use of language that is semantically and grammatically accurate. Student can read with ease and fluently, enrich vocabulary and enjoy reading and writing.	Create

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MODY UNIVERSITY
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School of Liberal Arts and Sciences

Course Outcomes

Course Name: Modern English Language and Phonetics-I

Course Code: EL 331

Year: Third

Semester: Autumn

Faculty Name: Dr. Sangeeta Jhajharia

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
EL 331.1	Learn the essentials of English Grammar and Phonemic symbols	Remember
EL 331.2	Understand the practical usage of the sounds and grammar of English in our speech and writing	Understand
EL 331.3	Apply the rules of grammar and phonetics to use flawless English in speech and writing	Apply
EL 331.4	Analyze, identify and rectify the common errors in speech and writing	Analyze
EL 331.5	Evaluate a piece of writing keeping in mind all the rules of grammar and phonetics studied	Evaluate
EL 331.6	Develop Proficiency in English through meaningful use of language that is semantically and grammatically accurate. Student can read with ease and fluently, enrich vocabulary and enjoy reading and writing.	Create

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School of Liberal Arts and Sciences

Course Outcomes

Course Name: Middle Ages to the Seventeenth Century English Literature-I

Course Code: EL513

Year: First

Semester: Autumn 2019-20

Faculty Name: Dr. Sangeeta Jhajharia

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
EL513.1	Remember the culture, thought, literary trends and movements of the period through the prescribed texts.	Remember
EL513.2	Have an understanding of the major literary and cultural trends in literature.	Understand
EL513.3	Discuss the significant figures and events of the period.	Apply
EL513.4	Analyze theme, plot and technique in the plays of Shakespeare and Christopher Marlowe	Analyze
EL513.5	Recognize the rhythms, metrics and other musical aspects of poetry and critically evaluate and appreciate poems of John Donne, Geoffrey Chaucer, John Milton	Evaluate
EL513.6	Write a well-organized paragraph in answer to a question about a literary text	Create

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School of Liberal Arts and Sciences

Course Outcomes

Course Name: American Literature

Course Code: EL 523

Year: First

Semester: Autumn 2019-20

Faculty Name: Dr. Sangeeta Jhajharia

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
EL523.1	Remember major historical and cultural developments of colonial America	Remember
EL523.2	Understand the social, economic, and political perspectives of the age	Understand
EL523.3	Appreciate poetry as a literary art and its various elements of poetry, such as diction, tone, form, genre, imagery, figures of speech, symbolism, theme etc.	Apply
EL523.4	Analyze the roles which gender, race, age, class, ethnicity, wealth, poverty, and geography have played in creating American literature.	Analyze
EL523.5	Use literary texts to examine the historical, cultural, and rhetorical contexts in which they were written.	Evaluate
EL523.6	Demonstrate knowledge of foundational texts of Early American literature through 1860s and write clear, focused, coherent essays about literature for an academic audience, using standard English conventions of grammar and style.	Create

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School of Liberal Arts and Sciences

Course Outcomes

Course Name: Middle Ages to the Seventeenth Century English Literature-II

Course Code: EL 572

Year: First

Semester: Spring

Faculty Name: Dr. Sangeeta Jhajharia

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
EL 572.1	Remember the culture, thought, literary trends and movements of the period through the prescribed texts.	Remember
EL 572.2	Understand the social, economic, and political perspectives of the age	Understand
EL 572.3	Appreciate the prescribed texts, with all their individual fragments	Apply
EL 572.4	Analyze theme, plot and technique in the plays of Shakespeare and Ben Johnson	Analyze
EL 572.5	Critically evaluate and appreciate poems of John Donne, Geoffrey Chaucer, John Milton, Edmund Spencer	Evaluate
EL 572.6	Write a well-organized paragraph in answer to a question about a literary text	Create

Jhajharia
10/3/2020

Signature of the faculty

MODY UNIVERSITY
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School of Liberal Arts and Sciences

Course Outcomes

Course Name: World Literature(s)

Course Code: EL 614

Year: Second

Semester: Spring

Faculty Name: Dr. Sangeeta Jhajharia

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
EL 614.1	To remember the social, economic, and political perspectives of the literatures produced and also translated into English.	Remember
EL 614.2	To understand the social, economic, and political perspectives of the literatures produced.	Understand
EL 614.3	Appreciate world fiction, with all its individual fragments, represents collective humanity.	Apply
EL 614.4	Analyze the relationship between drama and its socio-cultural context representing myriad colors of the genre.	Analyze
EL 614.5	Evaluate the technicalities and themes of the playwrights	Evaluate
EL 614.6	Gain insight into variety of issues relating to English drama in the modern context and write a well-organized paragraph in answer to a question about a literary text	Create

10/3/2020

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MODY UNIVERSITY
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School of Liberal Arts and Sciences

Course Outcomes

Course Name: Calculus

Course Code: MS111

Year: B.Sc. I (PCM, Physics (H), Chemistry (H), Mathematics (H))

Semester: Autumn

Faculty Name: Dr. Krishnapal Singh Sisodia

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MS111.1	Remember the definitions of Curvature, Radius of curvature, Centre of curvature, Gradient, Divergence and Curl	Remember
MS111.2	Understand the Tests for concavity and convexity, Intersection of a curve with its asymptotes, Change of order of integration, parametric curves, Polar curves and Pedal curves	Understand
MS111.3	Evaluate the Asymptotes in Cartesian and polar coordinates, Partial differentiation, Maxima and Minima of functions of two variables, Double integrals in Cartesian and polar coordinates, Triple integral	Evaluate
MS111.4	Apply the double and triple integrals in finding areas and volumes, Greens, Stokes and Gauss theorems to obtain some integrals	Apply
MS111.5	Analyse the Points of inflexion, Multiple points, Lagrange's method of undetermined multipliers, Euler's theorem for homogeneous functions	Analyse
MS111.6	Create the curve sketching in Cartesian and polar co-ordinates, Circle of curvature, Chord of curvature	Create

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School of Liberal Arts and Sciences

Course Outcomes

Course Name: Physical Chemistry-11

Course Code: CH 272

Year: Academic Year: 2019-20

Semester: Spring

Faculty Name: Dr. Ritambhara Jangir

At the end of the course, students will be able to

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH 272.1	Understand basic concept of phase equilibrium of one and two component systems, freezing mixtures, azeotropes.	Understand
CH 272.2	Create freezing and azeotropic mixtures for reaction conditions	Create
CH 272.3	Choose liquids as solvents according to their properties.	Evaluate
CH 272.4	Measure specific and equivalent conductance, transport number, understand EMF series and its significance	Evaluate
CH 272.5	Determine pH and pKa values through potentiometry	Apply
CH 272.6	Apply law of mass action and Le Chatelier's principle for chemical equilibrium	Apply
CH 272.6	Use Clausius-Clapeyron equation for isothermic and isochoric reactions	Apply

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School of Liberal Arts and Sciences

Course Outcomes

Course Name: **Organic Chemistry-II**

Course Code: CH 192

Year: Academic Year: 2019-20

Semester: Spring

Faculty Name: Dr. S.S.Chauhan

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH 192.1	Define the basics of different reactions of alkyl, aryl halide, Polyhalogen, dienes alkyne and Arenes.	Remember
CH 192.2	Describe the concept of electrophilic and nucleophilic substitution mechanisms.	Understand
CH 192.3	Demonstrate reaction invole in alkyl, aryl halide, Polyhalogen, dienes alkyne and Arenes.	Apply
CH 192.4	Diagram illustrate to MO picture of the dienes, alkyne and Arenes. And classify different reactions.	Analyse
CH 192.5	Compare alkyl, aryl halide, Polyhalogen, dienes alkyne and Arenes on the basis of energy profile diagrams	Evaluate
CH 192.6	Build the concept of stability and reactivity of different reagents towards reaction mechanism.	Create

Signature of the faculty

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Course Outcomes

Course Name: Organic Synthesis-I

Course Code: CH 631

Year: 2019-20

Semester: Autumn

Faculty Name: Dr. S S Chouhan

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH 631.1	Understand various Reagents and reactions	Understand
CH 631.2	Analyze different oxidative processes	Analyze
CH 631.3	Apply different reductive processes in industry	Apply
CH 631.4	Evaluate general mechanistic considerations	Evaluate
CH 631.5	Create a detailed study of the various rearrangements	Create
CH 631.6	Remember the rules and factors of Polycyclic Aromatic Compounds	remember

Dr. S S Chouhan
Signature of the faculty

MODY UNIVERSITY
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School of Liberal Arts/ School of Science

Course Outcomes

Course Name: Advanced Organic Chemistry Laboratory-II

Course Code: CH 671

Year: II (MSc Chemistry)

Semester: III

Faculty Name: Dr. Shivendra Singh

CO Number	**Course Outcome statement** At the completion of the course, student will be able to	**Taxonomy Level**
CH 671.1	Isolation of caffeine from tea leaves.	Remember
CH 671.2	Isolation of benzoic acid from tea leaves.	Understand
CH 671.3	Isolation of casein from milk (the students are required to try some typical colour reactions of proteins).	Apply
CH 671.4	Isolation of lactose from milk (purity of sugar should be checked by TLC and PC and Rf values reported).	Analyse
CH 671.5	Isolation of nicotine dipicrate from tobacco.	Evaluate
CH 671.6	Isolation of cinchonine from cinchona bark.	Analyse
CH 671.7	Isolation of piperine from black pepper.	Evaluate
CH 671.8	Isolation of lycopene from tomatoes.	Analyse
CH 671.9	Isolation of β-carotene from carrots.	Evaluate

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Course Outcomes

Course Name: Chemistry I

Course Code: CH 113

Year: 2019-20

Semester: Autumn

Faculty Name: Dr. S S Chouhan

CO Number	**Course Outcome statement** At the completion of the course, student will be able to	**Taxonomy Level**
CH 113.1	Understand the atomic structure	Understand
CH 113.2	Analyze the various forces in gasses	Analyze
CH 113.3	Apply the mechanism of organic reaction in industry	Apply
CH 113.4	Evaluate the SN1 and SN2 reaction	Evaluate
CH 113.5	Create correlation between ionic radii and ionization energy	Create
CH 113.6	Remember the rules and factors of stereochemistry	remember

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Course Outcomes

Course Name: Chemistry - II

Course Code: CH 114

Year: B.Sc. I year 2019-20

Semester: I

Faculty Name: Dr. S. S. Chauhan

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH 114.1	Valence shell electron pair repulsion theory. MO theory, homonuclear (B2, C2, N2 and O2) and heteronuclear (CO and NO) diatomic molecules.	Analyze
CH 114.2	Nomenclature, preparation and reactions of alkenes, Saytzeff and Hofmann elimination, Mechanisms of hydrogentation, electrophilic and free radical additions, Markownikoff's rule, hydroboration-oxidation, oxymercuration-reduction. Chemical reaction of alkynes, mechanism of electrophilic and nucleophilic addition reaction, hydroboration-oxidation, metalammonia reduction, oxidation and polymerization.	Apply
CH 114.3	Remember the basic properties of s- and p-block elements, borazine, borohydrides, fullerenes, carbides, silicates (structural principle), tetrasulphur tetranitride. Structure of Xenon compounds.	Remember
CH 114.4	Explain the diagonal relationships of s- block elements, rate of Reaction, factors influencing the rate of reaction. zero order, first order, second order, pseudo order, half-life and Radioactive decay as a first Order phenomenon. Theories of chemical kinetics: Arrhenius equation, collision theory, transition state theory. Catalysis & types of catalysis, Mechanism of catalysis, Enzyme catalysis	Explain
CH 114.5	Evaluate the Ionic structures, radius ratio effect and coordination number, lattice energy and Born haber cycle, solvation energy and solubility of ionic solids, polarizing power and polarisability of ions, Fajan's rule.	Evaluate
CH 114.6	Understand the methods of formation (with special reference of Wurtz reaction, Kolbe reaction, Corey house reaction and decarboxylation of carboxylic acids). Physical properties and chemical reaction of alkanes	Understand

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Course Outcomes

Course Name: Chemistry Laboratory I

Course Code: CH 123

Year: 2019-20

Semester: Autumn

Faculty Name: Dr. S S Chouhan

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH 123.1	Understand the acid and basic radicals	Understand
CH 123.2	Evaluate the difference between acid and basic radicals	Evaluate
CH 123.3	Remember the techniques to identify acid and basic radicals	Remember
CH 123.4	Analyze the SN1 and SN2 reaction	Analyze
CH 123.5	Create correlation between presence of various elements and property	Create
CH 123.6	Apply the rules and factors of stereochemistry	Apply

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Course Outcomes

Course Name: Chemistry Lab II

Course Code: CH 124

Year: Academic Year: 2019-20

Semester: Spring

Faculty Name: Dr. S.S.Chauhan

At the end of the course, students will be able to

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH 124.1	Visit the chemistry laboratory and understand handling with various chemistry glasswares and chemicals.	Understand
CH 124.2	Handling with various apparatus and analyse P^H, conductance of the sample.	Analyse
CH 124.3	Handling with various apparatus and analyse absorbance and intensity of the sample.	Analyse
CH 124.4	Learn about different type of titrations.	Understand
CH 124.5	Purify organic compounds through crystallization	Analyse
CH 124.6	Handling with various apparatus and analyse water parameters of the sample.	Analyse

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Course Outcomes

Course Name: Spectroscopy-I

Course Code: CH 523

Year: I (MSc Chemistry)

Semester: I

Faculty Name: Dr. Shivendra Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH 523.1	The concept of Microwave, Infra-Red, Raman, Electron Spin Resonance and Mossbauer spectroscopy	Remember
CH 523.2	The usefulness and applications of Microwave, Infra-Red, Raman, Electron Spin Resonance and Mossbauer spectroscopy	Understand
CH 523.3	The concept of Microwave, Infra-Red, Raman, Electron Spin Resonance and Mossbauer spectroscopy to solve specific problem associated with a particular spectroscopy	Apply
CH 523.4	The structure of molecule and its property based on spectral data of Microwave, Infra-Red, Raman, Electron Spin Resonance and Mossbauer spectroscopy	Analyse
CH 523.5	The exact structure of molecules using Microwave, Infra-Red, Raman, Electron Spin Resonance and Mossbauer spectroscopy	Evaluate

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Course Outcomes

Course Name: **Spectroscopy-II**

Course Code: CH 524

Year: Academic Year: 2019-20

Semester: Spring

Faculty Name: Dr. S.S.Chauhan

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH 524.1	Define the basics of UV-Visible, IR, NMR (^{1}H&^{13}C), and Mass **Spectroscopy.**	Remember
CH 524.2	Describe the concept of electronic transitions, vibrational, chemical shift, Two dimension NMR spectroscopy, and Mass spectral fragmentation of organic compounds.	Understand
CH 524.3	Demonstrate ultraviolet, IR, NMR and Mass spectra with different examples.	Apply
CH 524.4	Diagram illustrate for Beer-Lambert law, vibrational frequencies, shielding mechanism, Two dimension NMR, and Mass spectroscopy.	Analyse
CH 524.5	Compare spectral data of UV-Visible, IR, NMR (^{1}H&^{13}C), and Mass **Spectroscopy.**	Evaluate
CH 524.6	Build the concept of spectroscopy(UV-Visible, IR, NMR (^{1}H&^{13}C), and Mass).	Create

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Course Outcomes

Course Name: Advanced Applications in Chemistry

Course Code: CH 536

Year: FIRST

Semester: Spring

Faculty Name: Dr. Shivendra Singh

CO Number	**Course Outcome statement** At the completion of the course, student will be able to	**Taxonomy Level**
CH 536.1	Evaluate the nature of supramolecular interactions, Host-guest interaction	Evaluate
CH 536.2	Determine Nano sensors, drug delivery, Cancer therapy, Tissue engineering, water purification	Analyze
CH 536.3	Effect of Green reagents, Green solvents (super critical fluids, water as a solvent for organic reactions	Create
CH 536.4	Advantages of Organic Electronics, electronic structure of materials, electrical properties of materials and optical absorption	Apply
CH 536.5	Organic ElectroChemical Transistors (OECTs), Organic Field Effect Transistors (OFETs).	Understand
CH 536.6	Use of word processing software including documents	remember

Dr. Shivendra Singh

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Course Outcomes

Course Name: Instrumental methods of analysis

Course Code: CH 313

Year: III (BSc Chemistry)

Semester: V

Faculty Name: Dr. Shivendra Singh

CO Number	**Course Outcome statement** At the completion of the course, student will be able to	**Taxonomy Level**
CH 313.1	The concept of spectroscopic techniques like Mass, Atomic absorption, Photo-electron & Mossbauer	Remember
CH 313.2	The concept of spectroscopic techniques like Mass, Atomic absorption, Photo-electron & Mossbauer	Understand
CH 313.3	The concept of different chromatographic techniques	Apply
CH 313.4	The concept of different chromatographic techniques	Analyse
CH 313.5	Other Separation Methods:-Ultracentrifugation-Principle, sedimentation constant, sedimentation equilibrium, sedimentation velocity, methodology and applications	Evaluate

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Course Outcomes

Course Name: Chemistry of Polymers and Petrochemicals

Course Code: CH 323

Year: B.Sc. III year 2019-20

Semester: III

Faculty Name: Dr. S.S.Chauhan

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH 323.1	Analyze the Copper Corrosion test and Softening point Test - Refinery Products and its uses, Heat of Combustion, Specific heat, Latent Heat of fusion, Latent heat of Vaporization, Viscosity index.	Analyze
CH 323.2	Polymerization methods: addition and condensation; mechanism and their kinetics, metallocene polymers and other newer techniques of polymerization.	Apply
CH 323.3	Remember the Inorganic Polymers: Silicones and Phosphazenes as inorganic polymers. triphosphazenes. Organic Polymers: Condensation polymers- Polyesters, Polyamides, Phenol-formaldehyde resin, Urea-formaldehyde resin, Epoxy resins, Polyurathanes	Remember
CH 323.4	Explain the Occurrence of Petroleum by Biological method - Composition of Petroleum, Properties of Paraffins, Olefins, Naphthalene, Aromatics and Inorganic impurities (sulphur, nitrogen, chlorine) Exploration of Petroleum by gravity, Magnetic and Seismic Method -Refineries & its capacity in India	Explain
CH 323.5	Evaluation of Petroleum, U.O.P Characterization factor, Correlation Index - TBP Apparatus and its necessity in Refinery - Testing methods and its importance – ASTM Distillation, Reid vapor pressure, Oxidation stability, Smoke Point, Aniline Point	Evaluate
CH 323.6	Understand copolymerization, fire retarding polymers, electrically conducting polymers, biopolymers, contact lens, dental polymers, artificial heart.	Understand

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Course Outcomes

Course Name: Laboratory Course for Instrumental Methods of Analysis

Course Code: CH 323

Year: Academic Year: 2019-20

Semester: Autumn

Faculty Name: Dr. S.S.Chauhan

At the end of the course, students will be able to

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH 323.1	Understand handling with various chemistry glasswares and chemicals in organic chemistry laboratories.	Understand
CH 323.2	Qualitative & quantitative analysis	Create
CH 323.3	Mc-Lafferty rearrangement, double charged ion, nitrogen rule and double bond equivalent	Apply
CH 323.4	Evaluate the molecular ion peak, base peak, ion analysis, ion abundance, modes of fragmentation, metastable peak, retro-Diels Alder reaction, mass spectral fragmentation of organic compounds (alkanes, alkenes, arenes, alcohols, aldehydes, ketones, acids and phenols)..	Evaluate
CH 323.5	Instrumentation and applications of Atomic absorption, Photoelectron and Mossbauer spectroscopy	Analyze
CH 323.6	Process of purification of a given organic sample solid/liquid through chromatography	Remember

Dr. S.S.Chauhan

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Course Outcomes

Course Name: Green and Environmental Chemistry

Course Code: CH 334

Year: 2019-20

Semester: Spring

Faculty Name: Mr. G.S.Malhotra

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
[illegible]	[illegible]	[illegible]
CH-334.2	Discuss the Water chemistry, waste water treatment and eutrophication	Understand
CH-334.3	Discuss the Soil chemistry and Nutrients pathway in soil	Understand
CH-334.4	Analyse the Complex formation in water and various free ridicules formation in Air	Analyse
CH-334.5	Create the Green synthesis of various commercially important complex compounds	Create
CH-334.6	Evaluate the microwave and ultrasound assisted synthesis	Evaluate

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Course Outcomes

Course Name: Laboratory course in Chemistry-V

Course Code: CH 361

Year: Academic Year: 2019-20

Semester: Autumn

Faculty Name: Dr. S.S. Chauhan

At the end of the course, students will be able to

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH 361.1	Understand handling with various chemistry glasswares and chemicals in organic chemistry laboratory.	Understand
CH 361.2	Learn and prepare various solutions used in the chemistry laboratory	Create
CH 361.3	Determination of Iron content by redox titration	Determine
CH 361.4	Analyze the kinetics of rate constant of second order reactions	Analyze
CH 361.5	Explain the procedure of Preparing Ni(DMG)2, Ni(NH3)6Cl2	Explain
CH 361.6	Calculate percentage of iron in plain carbon steel	Remember

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Course Outcomes

Course Name: English Prose-II

Course Code: EL 122

Year: First

Semester: Spring

Faculty Name: Dr. Sangeeta Jhajharia

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
EL 122.1	To recognize different types of prose writing	Remember
EL 122.2	To understand and appreciate the basic concepts of style and literary devices in prose	Understand
EL 122.3	To apply the basic concepts of style and literary devices to different types of prose writing	Apply
EL 122.4	To analyze and appreciate fiction and enrich their knowledge about diverse fictional forms in prose	Analyze
EL 122.5	To be able to evaluate and synthesize information from a variety of resources	Evaluate
EL 122.6	To write creatively and critically	Create

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Course Outcomes

Course Name: English Prose-I

Course Code: EL121

Year: First

Semester: Autumn

Faculty Name: Dr. Sangeeta Jhajharia

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
EL121.1	To recognize different types of prose writing	Remember
EL121.2	To understand and appreciate the basic concepts of style and literary devices in prose	Understand
EL121.3	To apply the basic concepts of style and literary devices to different types of prose writing	Apply
EL121.4	To analyze and appreciate fiction and enrich their knowledge about diverse fictional forms in prose	Analyze
EL121.5	To be able to evaluate and synthesize information from a variety of resources	Evaluate
EL121.6	To write creatively and critically	Create

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Course Outcomes

Course Name: Psychological testing - II

Course Code: PL 362

Year: Third Year

Semester: Spring

Faculty Name: Dr Pragati Daga Dujari

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PL 362.1	Assess various psychological assessment techniques	Evaluate
PL 362.2	Summarize skills necessary for applying different tests for different purpose as evaluation, training and rehabilitation	Understand
PL 362.3	Identify the theories behind the particular test development	Remember
PL 362.4	Illustrate different type of test and know the suitability of the test with the particular population	Analyze
PL 362.5	Compare the types and purpose of tests	Evaluate
PL 362.6	Demonstrate the interpretation of the tests	Apply

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School of Liberal Arts/ School of Science

Course Outcomes

Course Name: Positive Psychology

Course Code: PL 612

Year: Second

Semester: Spring

Faculty Name:

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PL612.1	Understand the concepts of positive psychology	Understand
PL 612.2	Analyze different emotional states	Analyze
PL 612.3	Understand the pro-social behavior	Understand
PL 612.4	Determine the importance of well-being	Determine
PL 612.5	Apply spiritual aspect to develop positivity	Apply
PL 612.6	Understand positive cognitive states and processes	Understand

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Course Outcomes

Course Name: Research Methodology

Course Code: PL 542

Year: First Year

Semester: Spring

Faculty Name: Dr Pragati Daga Dujari

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PL 542.1	Discuss the need and purpose of research, various types of research and its importance in overall development	Understand
PL 542.2	Determine a research problem , write objective and hypothesis	Apply
PL 542.3	Outline the purpose of literature review and the steps to write a literature review	Analyze
PL 542.4	Explain the types of variables- methods of measuring, manipulation and controlling variables	Understand
PL 542.5	Recommend key elements of a research proposal/report and proposal , as per APA Guidelines	Evaluate
PL 542.6	State the structure and types of research designs	Remember

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Course Outcomes

Course Name: Psychometrics and Statistics in Psychology

Course Code: PL 532

Year: Second

Semester: Spring

Faculty Name:

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PL532.1	Understand the role of researcher in psychology	Understand
PL 532.2	Apply methods of test development in construction of a psychological tool	Apply
PL 532.3	Understand the nature of descriptive statistics	Understand
PL 532.4	Apply the parametric statistics	Apply
PL 532.5	Analyze non-parametric statistics	Analyze

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Course Outcomes

Course Name: Applied Psychology

Course Code: PL 522

Year: 2018- 19

Semester: Spring

Faculty Name: Richa Sharma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PL 522.1	Compare the various theories Motivation	Evaluate
PL 522.2	Examine the theories of Leadership	Apply
PL 522.3	Discuss the various areas of IO and Engineering Psychology	Understand
PL 522.4	Analyse the Role of Sports Psychologists	Analye
PL 522.5	Demonstrate the Role of Sports psychology in motivation and mental health	Apply
PL 522.6	Integrate the various skill enhancing techniques used by sportspersons.	Create

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Course Outcomes

Course Name: Advanced General Psychology

Course Code: PL 512

Year: First Year

Semester: Spring

Faculty Name: Dr Pragati Daga Dujari

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PL 512.1	Explain motivation cycle, types of motives and theories of motivation	Understand
PL 512.2	Identify emotion, physiological correlates and theories of emotion	Remember
PL 512.3	Demonstrate the cognitive processes involved in decision making, creativity, problem solving	Apply
PL 512.4	Categorize different theories of intelligence and learn how intelligence is different in different cultures.	Analyze
PL 512.5	Differentiate between various approaches of personality and describe techniques of personality assessment	Understand
PL 512.6	Formulate implication of various theories in day to day life of creativity, problem solving and decision making	Create

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Course Outcomes

Course Name: Psychology Lab- IV

Course Code: PL 372

Year: Third

Semester: Spring

Faculty Name: Dr. Pragati Daga Dujari

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PL372.1	Describe key concepts, principles, and overarching themes in psychology.	Understand
PL372.2	Measure a particular trait of an individual using a test or experiment, looking at the problem to be solved	Evaluate
PL372.3	Demonstrate the procedure of conducting the test with details to the subject, ensuring major precautions to be taken.	Apply
PL372.4	Compose effective writing skills and engage in active and meaningful discussion/dialogue on the particular topic.	Create
PL372.5	Sketch ethical standards to evaluate psychological science and practice	Apply
PL372.6	Generating effective interpretation of the test/ experiment with the help of scoring of the test used.	Create

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Course Outcomes

Course Name: Industrial and organizational Psychology-II

Course Code: PL 352

Year: 2019- 20

Semester: Spring

Faculty Name: Monika Shekhawat

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PL 352.1	Discuss the concept of work motivation and different types of work motivation models	Understand
PL 352.2	Apply the understanding of work motivation model in solving work related problems	Apply
PL 352.3	Examine accident proneness and preventive and safety measures of accidents.	Analyse
PL 352.4	Formulate strategies to enhance work motivation and job satisfaction of employees	Create
PL 352.5	Examine the concept of job satisfaction & different determinants and measurement of job satisfaction	Apply
PL 352.6	Assess and understand human-machine system ,its application	Evaluate

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Course Outcomes

Course Name: Psychopathology-II

Course Code: PL 342

Year: 2019- 20

Semester: Spring

Faculty Name: Monika shekhawat

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PL 342.1	Discuss the nature and symptoms of psychopathological disorders	Understand
PL 342.2	Examine the features and causes of pathological disorders	Apply
PL 342.3	Assess and Compare the etiology of different psychological disorders	Evaluate
PL 342.4	Classify and differentiate among the mood disorders, schizophrenia and other psychotic abnormalities	Analyse
PL 342.5	Identify clinical disorders on the basis of symptoms	Remember
PL 342.6	Develop and integrate strategies and techniques to cure psychological disorders	Create

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Course Outcomes

Course Name: Experimental Psychology

Course Code: PL 332

Year: 2019-2020

Semester: Spring

Faculty Name: Dr. Kedarmal Verma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PL 332.1	Examine the causal relationship between variables and predict the behavior	Apply
PL 332.2	Describe the sensory and perceptual processes	Understand
PL 332.3	Understand research designs, measurements and apply them to predict the behavior	Apply
PL 332.4	Explain concept of attention processes, understand basic attention theories	Understand
PL 332.5	Understand nature of learning, describe different learning theories	Understand

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Course Outcomes

Course Name: Practical

Course Code: PL 132

Year: 2018-19

Semester: Spring

Faculty Name: Richa Sharma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PL 132.1	Memory Using non sense syllables	Remember
PL 132.2		
PL 132.3	Maze learning	
PL 132.4		
PL 132.5	Sentence completion test	Evaluate
PL 132.6		

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Course Outcomes

Course Name: Psychology of Human Development-II

Course Code: PL 212

Year: 2019-2020

Semester: Spring

Faculty Name: Dr. Kedarmal Verma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PL 212.1	Understand the developmental aspects of infants, basic characteristics of infants	Understand
PL 212.2	Describe cognitive, social, moral development, interpret self-identity development	Understand
PL 212.3	Differentiate physical and psychological changes during adolescence, understand about developmental task	Understand
PL 212.4	Understand different developmental tasks of adulthood, learn to adjust to career, marriage, and family	Understand
PL 212.5	Identify adjustment problems and specific issues during old age, describe physical, psychological, physiological, and social changes during old age	Remember

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Course Outcomes

Course Name: Applied Psychology - II

Course Code: PL 222

Year: Second Year

Semester: Spring

Faculty Name: Dr Pragati Daga Dujari

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PL 222.1	Discussing the role of psychology in organizational setting and consumer behaviour	Understand
PL 222.2	Categorize the types of therapeutic interventions available in mental health and illustrating the same	Analyze
PL 222.3	Determine the difference between mental health, types of mental retardation, suggest ways of fostering mental health scenario in India	Apply
PL 222.4	Illustrating the role of social behavior in an individual and knowing the development of prejudice, stereotype and conflicts, suggest ways for conflict resolution.	Analyze
PL 222.5	Explain the role of psychologists in evaluating the personality traits and motivational problems of sportsmen	Understand
PL 222.6	Identify sources of stress and its management	Remember

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Course Outcomes

Course Name: Psychology Lab- IV

Course Code: PL 232

Year: Second

Semester: Spring

Faculty Name: Dr. Pragati Daga Dujari

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PL232.1	Describe key concepts, principles, and overarching themes in psychology.	Understand
PL 232.2	Measure a particular trait of an individual using a test or experiment, looking at the problem to be solved	Evaluate
PL 232.3	Demonstrate the procedure of conducting the test with details to the subject, ensuring major precautions to be taken.	Apply
PL 232.4	Compose effective writing skills and engage in active and meaningful discussion/dialogue on the particular topic.	Create
PL 232.5	Sketch ethical standards to evaluate psychological science and practice	Apply
PL 232.6	Generating effective interpretation of the test/ experiment with the help of scoring of the test used.	Create

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Course Outcomes

Course Name: Social Psychology-II

Course Code: PL 312

Year: 2019-2020

Semester: Spring

Faculty Name: Dr. Kedarmal Verma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PL 312.1	Understand, measure and predict the attitude of individuals	Apply
PL 312.2	Explain the process of impression formation	Understand
PL 312.3	Predict the attribution by using different theories	Apply
PL 312.4	Differentiate the prejudice and discrimination	Understand
PL 312.5	Explain the nature, and techniques of propaganda	Understand
PL 312.6	Summarize determinants, and understand how to manage aggression and violence	Understand
PL 312.7	Understand how social change happens, they will develop good interpersonal relationships in society	Understand

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Course Outcomes

Course Name: Counseling and Guidance

Course Code: PL 322

Year: Third Year

Semester: Spring

Faculty Name: Dr Pragati Daga Dujari

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PL 322.1	Demonstrate skills necessary for selecting and applying counseling strategies with respect to Indian context	Apply
PL 322.2	Interpret skills required at various stages of counseling, professional and ethical issues in counseling	Understand
PL 322.3	Differentiate between counseling and guidance and its types	Understand
PL 322.4	Determine various areas of counseling	Apply
PL 322.5	Assess the various counseling approaches	Evaluate
PL 322.6	Formulate the complete structure and essential skills of counseling session- start till the termination	Create

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Course Outcomes

Course Name: Experimental methodology & elementary statistics II

Course Code: PL 122

Year: 2019- 20

Semester: Spring

Faculty Name: Monika Shekhawat

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PL 122.1	Explain the different types of experimental designs	Understand
PL 122.2	Discuss the nature and types of psychological scales, variability	Understand
PL 122.3	Compute product moment and rank order.	Apply
PL122. 4	Assess and compare the different measures of variability	Evaluate
PL 122.5	Outline and classify the probability and non-probability sampling methods.	Analyse
PL 122.6	Learn to calculate the quartile and standard deviation, chi square	Apply

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Course Outcomes

Course Name: Basic Psychological Processes

Course Code: PL 112

Year: 2018- 19

Semester: Spring

Faculty Name: Richa Sharma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PL 112.1	Explain the structure and functions of visual and auditory senses	Understand
PL 112.2	Discuss the nature and types of attention and perception	Understand
PL 112.3	Illustrate the principles of perceptual organisation in everyday life.	Apply
PL112. 4	Describe the Nature and type of Emotions	Understand
PL 112.5	Outline the Physiological correlates of emotion comparing the Theories of emotion: James- Lange, Cannon- Bard and Schachter-Singer.	Analyse
PL 112.6	Formulate the ways to enhance positive emotions.	Create

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Course Outcomes

Course Name: Practicum-II

Course Code: PL 552

Year: Second

Semester:

Faculty Name:

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PL552.1	Assess the personality and aptitude of the subject using projective techniques	Assess
PL 552.2	Evaluate the IQ of the subject using projective techniques.	Evaluate
PL 552.3	Measure the wellbeing of the subject	Measure
PL 552.4	Measure the defense mechanism of the subject	Measure
PL 552.5	Analyze, interpret and discuss the report on the basis of results and scores	Analyze
PL 552.6	Understand the usage of psychological tools in practice	Understand

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Course Outcomes

Course Name: Psychopathology

Course Code: PL 614

Year: Second Year 2019-20

Semester: Spring

Faculty Name: Dr. Pragati Daga Dujari

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PL 614.1	Recall the symptoms, etiology and prognosis of various substance use & personality disorders	Remember
PL 614.2	Demonstrate the types, causes, clinical features and treatment of mood disorder.	Apply
PL 614.3	Define the types, symptoms, causes, treatment of schizophrenia, and delusional disorder	Understand
PL 614.4	Summarize etiology of sexual disorder and performance anxiety, gender dysphoria and homosexuality	Understand
PL 614.5	Illustrate the behavioral , emotional and developmental disorder of childhood and adolescence	Analyze
PL 614.6	Assess how the body ages, psychological disorders in old age and stress management strategies	Evaluate

2.12.2020

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Course Outcomes

Course Name: Engineering Psychology

Course Code: PL662

Year:

Semester: Spring

Faculty Name:

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PL 662.1	Understand human engineering	Understand
PL 662.2	Describe man-machine system	Describe
PL 662.3	Measure work efficiency	Measure
PL 662.4	Apply measures of safety at workplace	Apply
PL 662.5	Understand concept of work and fatigue	Understand
PL 662.6	Analyze effect personnel training on performance	Analyze

3.2.2020

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Course Outcomes

Course Name: Psychotherapies and Counseling

Course Code: PL 624

Year: Second Year

Semester: Spring

Faculty Name: Dr Pragati Daga Dujari

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PL 624.1	explain the meaning, nature, goals and difference between psychotherapy and counseling	Understand
PL 624.2	Illustrate the history and basic psychoanalytical therapy and brief orientation of psychoanalytic psychologies	Apply
PL 624.3	Justify the meaning, nature and various strategies involved in behaviour therapy	Evaluate
PL 624.4	Examine the cognitive therapies critically	Apply
PL 624.5	Categorize the basic nature and goals of humanistic, transpersonal and existential therapies.	Evaluate
PL 624.6	Choose the most effective therapy to be used in treatment of a particular disorder	Analyze

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Course Outcomes

Course Name: Health Psychology

Course Code: PL 622

Year: 2019-2020

Semester: Spring

Faculty Name: Dr. Kedarmal Verma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PL 622.1	Understand and interpret the mental and physical health concept	Understand
PL 622.2	Understand about the healthy diet and they will be apply all the guidelines to improve their overall health	Apply
PL 622.3	Interpret different kind of exercises and apply them to improve their health	Apply
PL 622.4	Understand women health issues	Understand
PL 622.5	Understand health behavior, apply different preventive measure, and modify health behavior	Apply

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Course Outcomes

Course Name: Dynamics of Organizational Behavior

Course Code: PL672

Year:

Semester: Spring

Faculty Name:

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PL 672.1	Develop connectivity between concepts and practices of organizations	Develop
PL 672.2	Describe major topics and subspecialties including critical theory and research finding that have defined the field of I/O psychology	Describe
PL 672.3	Measure personnel performance through different criteria	Measure
PL 672.4	Apply procedures and assessment methods for personnel selection	Apply
PL 672.5	Understand purpose and importance of performance appraisal system	Understand
PL 672.6	Analyze effect personnel training on performance	Analyze

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Course Outcomes

Course Name: Practical of Industrial and Organizational Behavioral

Course Code: PL682

Year:

Semester: Spring

Faculty Name:

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PL 682.1	Understand difference between tests and experiments	Understand
PL 682.2	Evaluate the leadership behavior and occupational stress	Evaluate
PL 682.3	Measure the fears of the subject	Measure
PL 682.4	Measure the emotions of the subject	Measure
PL 682.5	Analyze, interpret and discuss the report on the basis of results and scores	Analyze
PL 682.6	Understand the usage of psychological tools in practice	Understand

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Course Outcomes

Course Name: Experimental Methodology & Elementary Statistics – I

Course Code: PL121

Year: 2019-2020

Semester: Autumn

Faculty Name: Dr. Kedarmal Verma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PL 121.1	Create different experiments in Psychology and understand various research methods	Create
PL 121.2	Create research problems and hypothesis	Create
PL 121.3	Understand research variables, their nature and types	Understand
PL 121.4	Describe the purpose, nature of statistics in psychological research	Describe
PL 121.5	Analyze psychological data in different formats	Analyze
PL 121.6	Analyze central tendencies in psychological research	Analyze
PL 121.7	Understand the importance and reliability of statistics	Understand

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Course Outcomes

Course Name: Applied Psychology-I

Course Code: PL 231

Year: 2019-2020

Semester: Autumn

Faculty Name: Dr. Kedarmal Verma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PL 231.1	Understand the nature and importance of applied psychology	Understand
PL 231.2	Analyze the role of guidance psychologists	Analyze
PL 231.3	Create awareness regarding the field of education	Create
PL 231.4	Analyze the role of Counseling psychologists	Analyze
PL 231.5	Apply knowledge to help and understand community	Apply
PL 231.6	Describe the contribution of psychologists in the area of mental health and wellbeing	Remember

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Course Outcomes

Course Name: Psychology Lab-III

Course Code: PL 241

Year: 2019-2020

Semester: Autumn

Faculty Name: Dr. Kedarmal Verma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PL 241.1	Analyze, interpret and discuss the report on the basis of results and scores	Analyze
PL 241.2	Understand the usage of psychological tools in practice	Understand
PL 241.3	Measure anxiety and anger	Apply
PL 241.4	Measure psychological needs for counseling	Apply
PL 241.5	Measure stress	Apply
PL 241.6	Analyze types of parenting	Analyze

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Course Outcomes

Course Name: Social Psychology-I

Course Code: PL 311

Year: 2019-2020

Semester: Autumn

Faculty Name: Dr. Kedarmal Verma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PL 311.1	Understand the nature and scope of social psychology	Understand
PL 311.2	Analyze the major theories, concepts, empirical findings, methods and techniques used in social psychology	Analyze
PL 311.3	Analyze how psychological theory and empirical research are used to help explain socialization process, and human behavior in individuals and groups	Analyze
PL 311.4	Create awareness regarding social norms, and social behavior	Create
PL 311.5	Understand the importance of leadership	Understand
PL 311.6	Create awareness regarding social issues	Create

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Course Outcomes

Course Name: Industrial and Organizational Psychology-I

Course Code: PL 351

Year: 2019-2020

Semester: Autumn

Faculty Name: Dr. Kedarmal Verma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PL 351.1	Develop connectivity between concepts and practices of organizations	Create
PL 351.2	Describe major topics and subspecialties including critical theory and research finding that have defined the field of I/O psychology	Understand
PL 351.3	Measure personnel performance through different criteria	Apply
PL 351.4	Apply procedures and assessment methods for personnel selection	Apply
PL 351.5	Understand work environment	Understand
PL 351.6	Analyze effect of working environment of performance	Analyze

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Course Outcomes

Course Name: Psychological Testing-I

Course Code: PL 361

Year: 2019-2020

Semester: Autumn

Faculty Name: Dr. Kedarmal Verma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PL 361.1	Understand the nature of different psychological tests	Understand
PL 361.2	Apply methods of test development in construction of a psychological tool	Apply
PL 361.3	Describe the role of researcher in psychology.	Remember
PL 361.4	Apply methods of test development in Construction and Standardization of Psychological Tests	Apply
PL 361.5	Understand the nature of descriptive statistics	Understand
PL 361.6	Apply tests and other assessment tools to measure and observe a client's behavior to arrive at a diagnosis and guide treatment.	Apply

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Course Outcomes

Course Name: Psychology Laboratory - V

Course Code: PL 371

Year: 2019-2020

Semester: Autumn

Faculty Name: Dr. Kedarmal Verma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PL 371.1	Assess the personality of the subject	Evaluate
PL 371.2	Evaluate the attitude of the subject	Evaluate
PL 371.3	Measure the family environment of the subject	Evaluate
PL 371.4	Measure the attention span of the subject	Evaluate
PL 371.5	Analyze, interpret and discuss the report on the basis of results and scores	Analyze
PL 371.6	Understand the usage of psychological tools in practice	Understand

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Course Outcomes

Course Name: Advanced General Psychology – I

Course Code: PL511

Year: 2019-2020

Semester: Autumn

Faculty Name: Dr. Kedarmal Verma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PL 511.1	Understand basic concepts of psychology, different research methods	Understand
PL 511.2	Describe the biological base of behavior	Describe
PL 511.3	Understand sensory-perceptual processing, and different methods used in experimental psychology	Understand
PL 511.4	Understand the concepts, theories, and types of learning, and also the neurophysiology of learning	Understand
PL 511.5	Describe the different models of memory, memory processing, types of memory, biological basis of memory	Describe

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Course Outcomes

Course Name: Applied Psychology-I

Course Code: PL 521

Year: 2019-2020

Semester: Autumn

Faculty Name: Dr. Kedarmal Verma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PL 521.1	Understand the nature and importance of applied psychology	Understand
PL 521.2	Create awareness regarding the field of education	Create
PL 521.3	Analyze the role of clinical psychologists	Analyze
PL 521.4	Describe the contribution of psychologists in the area of mental health and wellbeing.	Remember
PL 521.5	Understand work of psychologists towards gender and identity	Understand
PL 521.6	Apply knowledge to help and understand community	Apply

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Course Outcomes

Course Name: Systems of Psychology

Course Code: PL 531

Year: 2019-2020

Semester: Autumn

Faculty Name: Dr. Kedarmal Verma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PL 531.1	Create insight of the contribution of different schools of Psychology	Create
PL 531.2	Understand the importance of the work of behaviorists	Understand
PL 531.3	Develop knowledge of the work of Sigmund Freud	Create
PL 531.4	Describe Gestalt school of Psychology	Remember
PL 531.5	Analyze the role of neo psychoanalysts in psychology	Analyze
PL 531.6	Evaluate contribution of humanistic-existential psychologists	Evaluate

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Course Outcomes

Course Name: Psychodiagnostics

Course Code: PL 623

Year: 2019-20

Semester: Autumn

Faculty Name: Dr. Pragati Daga Dujari

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
623.1	Identify the scope, role and issues in clinical psychology.	Remember
623.2	Explain various clinical assessment strategies available	Understand
623.3	Categorize various tests used in clinical settings	Analyse
623.4	Recommend a test to be used for a client in clinical setting from various tests available	Evaluate
623.5	Assess various self rated and observer rated rating scale in clinical setting	Evaluate
623.6	Justify various techniques of neuropsychological assessment	Evaluate

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Course Outcomes

Course Name: Practical of Clinical Psychology - I

Course Code: PL633

Year: 2019-2020

Semester: Autumn

Faculty Name: Dr. Pragati Dujari Daga

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PL 633.1	Understand difference between tests and experiments	Understand
PL 633.2	Evaluate the stress and anxiety	Evaluate
PL 633.3	Measure the fears of the subject	Measure
PL 633.4	Measure the emotions of the subject	Measure
PL 633.5	Analyze, interpret and discuss the report on the basis of results and scores	Analyze
PL 633.6	Understand the usage of psychological tools in practice	Understand

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Course Outcomes

Course Name: Advanced Industrial Psychology

Course Code: PL661

Year: 2019-2020

Semester: Autumn

Faculty Name: Dr. Pragati Dujari Daga

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PL 661.1	Understand the Definition, role, Nature and scope, Origin and History of industrial psychology	Understand
PL 661.2	Understand the importance and uses of job analysis, Various methods of job analysis, Job design approaches and job enrichment	Understand
PL 661.3	Create awareness about recruitment and selection, recruitment process, stages in selection process, and selection method	Create
PL 661.4	Describe nature and principals of training, Assessing training needs, Training methods	Describe
PL 661.5	Understand Purpose, importance, Uses of Performance appraisal, Methods of evaluating Performance appraisal	Understand

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Course Outcomes

Course Name: Dynamics of Organizational Behaviour - I

Course Code: PL671

Year: 2019-2020

Semester: Autumn

Faculty Name: Dr. Pragati Dujari Daga

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PL 671.1	Understand the meaning and importance of organization behavior	Understand
PL 671.2	Describe the theories of motivation, determinants of job satisfaction, organizational commitment, citizenship behavior and organizational justice	Describe
PL 671.3	Create their leadership qualities	Create
PL 671.4	Create directions of communication in organization, directions and methods of improving communications	Create
PL 671.5	Understand nature of decision making, behavioural decision making etc.	Understand

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Course Outcomes

Course Name: Practical of Industrial & Organizational Psychology - I

Course Code: PL681

Year: 2019-2020

Semester: Autumn

Faculty Name: Dr. Pragati Dujari Daga

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PL 681.1	Understand difference between tests and experiments	Understand
PL 681.2	Evaluate the leadership behavior and occupational stress	Evaluate
PL 681.3	Measure the fears of the subject	Measure
PL 681.4	Measure the emotions of the subject	Measure
PL 681.5	Analyze, interpret and discuss the report on the basis of results and scores	Analyze
PL 681.6	Understand the usage of psychological tools in practice	Understand

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Course Outcomes

Course Name: Advanced Cognitive Psychology

Course Code: PL 611

Year: 2019-20

Semester: Autumn

Faculty Name: Dr. Pragati Daga Dujari

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
611.1	Explain the general terms , introduction to psychology & various schools of psychology	Understand
611.2	Define cognitive psychology and its research methods	Remember
611.3	Determine the mechanism of nervous system and its neurophysiology in cognitive psychology ie. thinking, perception, attention, language , memory, intelligence	Apply
611.4	Assess the different theories of cognitive psychology in thinking, perception, attention, language , memory, intelligence.	Evaluate
611.5	Illustrate the practical applications of cognitive psychology in processes like creativity, problem solving, language, perception and memory, intelligence.	Apply
611.6	Interpret the various models and processes of cognition	Understand

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Course Outcomes

Course Name: Life Span Developmental Psychology

Course Code: PL 541

Year: 2019-2020

Semester: Autumn

Faculty Name: Dr. Pragati Dujari Daga

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PL 541.1	Understand Meaning, nature, purpose, scope, and methods in developmental psychology	Understand
PL 541.2	Understand Pre-natal and Neonate development	Understand
PL 541.3	Describe Infancy and Childhood developmental milestones, cognitive, motor, moral, social, emotional, language development.	Describe
PL 541.4	Understand physical and psychological changes, Developmental task of adolescent, Problems of adolescent	Understand
PL 541.5	Understand development changes occur during adulthood and old age	Understand

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Course Outcomes

Course Name: Practical-I

Course Code: PL 551

Year: 2019-2020

Semester: Autumn

Faculty Name: Dr. Kedarmal Verma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PL 551.1	Assess the personality and aptitude of the subject	Evaluate
PL 551.2	Evaluate the memory and IQ of the subject	Evaluate
PL 551.3	Measure the Perception of the subject	Evaluate
PL 551.4	Measure the attention span of the subject	Evaluate
PL 551.5	Analyze, interpret and discuss the report on the basis of results and scores	Analyze
PL 551.6	Understand the usage of psychological tools in practice	Understand

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Course Outcomes

Course Name: Psychopathology-I

Course Code: PL 341

Year: 2019-20

Semester: Autumn

Faculty Name: Dr. Pragati Daga Dujari

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
341.1	Tabulate the criteria for determining normality and abnormality	Remember
341.2	Summarize the various models of psychopathology , theoretical implications and treatment	Understand
341.3	Predict the various classification systems and their revision along with various diagnostic assessment techniques available	Apply
341.4	Assess the types, theoretical approaches and treatment of anxiety disorders	Evaluate
341.5	Compare the various psychophysiological disorders	Evaluate
341.6	Infer nature, types causes of Mental retardation	Analyse

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Course Outcomes

Course Name: Systems of Psychology

Course Code: PL 331

Year: 2019-20

Semester: Autumn

Faculty Name: Dr. Pragati Daga Dujari

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
331.1	Summarize the nature and evolution of psychology.	Understand
331.2	Categorize the schools of psychology and major contributors in every school	Analyse
331.3	Assess the concepts and theories of intelligence and learning	Evaluate
331.4	Compare the freudian , neo freudian and non- freudian theories of personality	Evaluate
331.5	State the basic concept and models of memory	Remember
331.6	Ilustrate how language is developed and related theories	Apply

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Course Outcomes

Course Name: Biological Bases of Behaviour

Course Code: PL 321

Year: 2019-20

Semester: Autumn

Faculty Name: Dr. Pragati Daga Dujari

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
321.1	Identify the various methods of studying physiological psychology	Remember
321.2	Summarize structure types functions of neurons	Understand
321.3	Classify the types of nervous system and endocrine glands	Analyse
321.4	Compare between sleep, arousal and dreaming	Evaluate
321.5	Differentiate neuro physiology of learning, memory and motivation	Understand
321.6	Examine the neural mechanism of hunger, thirst and sex	Apply

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Course Outcomes

Course Name: Psychology of Human Development-I

Course Code: PL 221

Year: 2019-20

Semester: Autumn

Faculty Name: Dr. Pragati Daga Dujari

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
221.1	Discuss the major difference and principles between growth, maturation and development along with developmental tasks.	Understand
221.2	Justify the nature versus nurture debate, with evidences of research studies	Evaluate
221.3	Tabulate a broad working knowledge of using methodological approaches of developmental psychology	Remember
221.4	Identify the major theorists that contribute to the field of developmental psychology	Remember
221.5	Infer the stages and factors affecting prenatal development	Analyse
221.6	Explain the physical, sensory and motor capacities alongwith the hazards associated during neonate and infancy stage	Understand

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Course Outcomes

Course Name: Advanced Cognitive Psychology

Course Code: FS 611

Year: 2019-20

Semester: Autumn

Faculty Name: Dr. Pragati Daga Dujari

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
611.1	Explain the general terms , introduction to psychology & various schools of psychology	Understand
611.2	Define cognitive psychology and its research methods	Remember
611.3	Determine the mechanism of nervous system and its neurophysiology in cognitive psychology ie. thinking, perception, attention, language , memory, intelligence	Apply
611.4	Assess the different theories of cognitive psychology in thinking, perception, attention, language , memory, intelligence.	Evaluate
611.5	Illustrate the practical applications of cognitive psychology in processes like creativity, problem solving, language, perception and memory, intelligence.	Apply
611.6	Interpret the various models and processes of cognition	Understand

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Course Outcomes

Course Name: Psychology Lab. - I

Course Code: PL131

Year: 2019-2020

Semester: Autumn

Faculty Name: Dr. Pragati Dujari Daga

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PL 131.1	Assess the personality of the subject	Assess
PL 131.2	Evaluate the attitude of the subject	Evaluate
PL 131.3	Measure the family environment of the subject	Measure
PL 131.4	Measure the attention span of the subject	Measure
PL 131.5	Analyze, interpret and discuss the report on the basis of results and scores	Analyze
PL 131.6	Understand the usage of psychological tools in practice	Understand

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Course Outcomes

Course Name: Positive Psychology

Course Code: PL213

Year: 2019-2020

Semester: Autumn

Faculty Name: Dr. Pragati Dujari Daga

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PL 213.1	Understand the concepts of positive psychology	Understand
PL 213.2	Analyze different emotional states	Analyze
PL 213.3	Understand the pro-social behavior	Understand
PL 213.4	Determine the importance of well-being	Determine
PL 213.5	Apply spiritual aspect to develop positivity	Apply
PL 213.6	Understand positive cognitive states and processes	Understand

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Course Outcomes

Course Name: Basic Psychological Processes-I

Course Code: PL 111

Year: 2019-20

Semester: Autumn

Faculty Name: Dr. Pragati Daga Dujari

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PL111.1	Identify the various approaches, fields, and subfields of psychology along with their major concepts and important figures	Remember
PL111.2	Assess the strengths and weaknesses of descriptive, experimental, and correlational research; and various methods used in psychology	Evaluate
PL111.3	Explain motivation, how it is influenced, and major theories about motivation and types of confict.	Understand
PL111.4	Infer the basic theories of learning and how the theory can be used in day to day life.	Analyse
PL111.5	Define personality and the contributions of Freud and neo-Freudians to personality theory	Remember
PL111.6	Demonstrate the principles of psychology in day to day life for a better understanding of themselves and others	Apply

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Course Outcomes

Course Name: Practical of Clinical Psychology - II

Course Code: PL634

Year: 2019-20

Semester: Autumn

Faculty Name:

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PL 634.1	Understand difference between attitude and aptitude	Understand
PL 634.2	Evaluate the group preference	Evaluate
PL 634.3	Measure the personality of the subject	Measure
PL 634.4	Measure the emotional maturity of the subject	Measure
PL 634.5	Analyze, interpret and discuss the report on the basis of results and scores	Analyze
PL 634.6	Understand the usage of psychological tools in practice	Understand

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Course Outcomes

Course Name: Psychopathology-I

Course Code: PL 613

Year: 2019-20

Semester: Autumn

Faculty Name: Dr. Pragati Daga Dujari

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
613.1	Differentiate between the concepts of normality and abnormality.	Understand
613.2	Tabulate DSM and ICD guidelines.	Remember
613.3	Summarize the various models of psychopathology , theoretical implications and treatment	Understand
613.4	Assess the types, theoretical approaches and treatment of anxiety disorders	Evaluate
613.5	Compare the various psycho-physiological disorders	Evaluate
613.6	Predict etiology, symptoms, diagnosis and treatment of organic mental disorders	Apply

Signature of the faculty

MODY UNIVERSITY
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School of Liberal Arts and Sciences

Course Outcomes

Course Name: Reliability Theory

Course Code: MS 681

Year: 2nd year M.Sc. (Mathematics) / M.A. (Mathematics)

Semester: 3rd

Faculty Name: Dr. Garima Sharma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MS.681.1	Define the Reliability, Availability and Maintainability, Redundancy	Remember
MS.681.2	Explain mathematical approach of Reliability, MTTF, MTBF, Redundancy, and series and non-series parallel system. Hazard models	Understand
MS.681.3	Solve the problems related to Distributions, Reliability and Redundancy.	Apply
MS.681.4	Analyse the Techniques in types of probability distributions, Redundancy Techniques	Analyse
MS.681.5	Compare Reliability, Maintainability and Availability	Evaluate
MS.681.6	Create the systems and reliability models, Reliability Testing	Create

19/11/19

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Course Outcomes

Course Name: Special Functions and Integral Equations

Course Code: MS 641

Year: 2nd year M.Sc. (Mathematics) / M.A. (Mathematics)

Semester: 3rd

Faculty Name: Dr. Garima Sharma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MS.641.1	Define the different aspects Integral equations, Types of Integral equations, Kernels, Types of Kernels, special functions	Remember
MS.641.2	Process of solving Integral equations, Recurrence Relations of special functions.	Understand
MS.641.3	Solve the problems related to Integral equations and special functions.	Apply
MS.641.4	Analyse the Techniques in different equations and special functions.	Analyse
MS.641.5	Compare the Integral equations and special functions.	Evaluate
MS.641.6	Create Integral equations by differential equations and solve by using Laplace transform.	Create

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Course Outcomes

Course Name: Operations Research

Course Code: MS-541

Year: 1st year M.Sc. (Mathematics) / M.A. (Mathematics)

Semester: 1st

Faculty Name: Dr. Garima Sharma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MS.541.1	Define the different aspects of Operations Research, Queuing Theory, Inventory Theory, PERT-CPM, Dynamic Programming and Game Theory.	Remember
MS.541.2	Explain Queuing Models, Inventory Models and Replacement Models	Understand
MS.541.3	Solve the problems related to Queuing Models, Inventory Models, Job sequencing, Game Theory etc	Apply
MS.541.4	Analyse the Techniques in different Models	Analyse
MS.541.5	Compare Queuing Models, Inventory deterministic models , Inventory probabilistic models	Evaluate
MS.541.6	Create the PERT network, Queuing models and Inventory models	Create

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Course Outcomes

Course Name: Complex Analysis and Integral Transform

Course Code: MS 522

Year: 1st year (M.Sc.)

Semester: 2nd

Faculty Name: Dr. Garima Sharma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MS.522.1	Define the different aspects of Analytic functions, Laplace Transform, Mellin Transform, Hankel transform.	Remember
MS.522.2	Explain the calculations of Integration in the complex plane, Laplace Transform, Hankel Transform and Mellin Transform.	Understand
MS.522.3	Solve the problems related to Laplace Transform, Mellin Transform, and Hankel Transform.	Apply
MS.522.4	Analyse Laplace Transform, Hankel Transform, and Mellin Transform for different problems and for the solutions of ODE and PDE.	Analyse
MS.522.5	Compare all the aspects of the Laplace Transform, Mellin Transform and Hankel Transform with the applications.	Evaluate
MS.522.6	May integrate the fundamentals of Laplace Transform in the RLC (Resonant Circuit).	Create

2/9/20

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Course Outcomes

Course Name: Optimization Theory

Course Code: MS-311

Year: 3rd -Yr (B.Sc)

Semester: 5th

Faculty Name: Dr. Garima Sharma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MS.322.1	Define the different aspects of Operations Research and Optimization Techniques.	Remember
MS.322.2	Explain the different techniques (LPP, Transportation Problem, Assignment Problem and Game Theory)	Understand
MS.322.3	Solve the problems related to Optimization Techniques	Apply
MS.322.4	Analyse the Techniques in different field	Analyse
MS.322.5	Compare all techniques to each other	Evaluate
MS.322.6	Create the self-real life problem and optimize it	Create

19/11/19

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Course Outcomes

Course Name: Basic Mathematics

Course Code: CH 283

Year: 3rd year B.Sc. (CBZ)

Semester: 5th

Faculty Name: Dr. Garima Sharma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH 283.1	Define the different aspects functions, Coordinate Geometry, Probability, Vectors.	Remember
CH 283.2	Process of solving Differentiation, Integration, Permutation, Combination	Understand
CH 283.3	Solve the problems related to Differentiation, Integration and Vectors.	Apply
CH 283.4	Analyse the Techniques in different differential equations, probability, permutation and combination.	Analyse
CH 283.5	Compare the problems related to permutation and combination.	Evaluate
CH 283.6	Create differential equations and solve by different methods.	Create

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Course Outcomes

Course Name: Mathematics and Statistics for Biology

Course Code: BT 241

Year: 3rd year B.Sc. (Biotech.,CBZ, MB and F & N)

Semester: 5th

Faculty Name: Dr. Garima Sharma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MS.641.1	Define the different aspects logarithm function, permutation and combination, probability, derivatives and integrations	Remember
MS.641.2	Process of calculate derivatives and integration.	Understand
MS.641.3	Solve the problems related to mean, median and mode, mean deviation, standard deviation, correlation coefficient and regression coefficient.	Apply
MS.641.4	Analyse the Techniques in different situation of permutation and combination probability.	Analyse
MS.641.5	Compare the measures of central tendency and dispersion.	Evaluate
MS.641.6	Create own problem and apply permutation, combination and probability.	Create

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Course Outcomes

Course Name: Research Methodology-I

Course Code: BP 252

Year: 2nd Year

Semester: 4th

Faculty Name: Dr. Garima Sharma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MS.212.1	Define the different aspects of Research Methodology, sampling design, Method of data collection, Test of hypothesis	Remember
MS.212.2	Explain the different techniques of data collection, test of hypothesis and sampling	Understand
MS.212.3	Solve the problems related to sampling and test of hypothesis	Apply
MS.212.4	Analyse the Techniques in different field	Analyse
MS.212.5	Compare all tests of sampling	Evaluate
MS.212.6	Create the self-real life problems related to a sampling, data collection	Create

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School of Liberal Arts and Sciences

Course Outcomes

Course Name: Statistics and probability -II

Course Code: MS 552

Year: First yr

Semester: IInd

Faculty Name: Kiran Singh Bais

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MS.552.1	Identify types of errors, hypothesis, sample size, types of data is given.	Remember
MS.552.2	Define the types of data(discrete or continuous),distribution which will apply according to the data, signals type	Understand
MS.552.3	Evaluate the random processes, different types of distributions,, cyclical movement, regular movements, long cycles movements.	Evaluate
MS.552.4	Analyse time series, random processes, ,chi-test, F-distributions, student`s t distributions.	Analyse
MS.552.5	Calculate the confidence interval, critical region, mean, variance of sample and populations,, sine wave random processes.	apply
MS.552.6	Derive time series, critical region, acceptance region, Markov chain.	Create

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Kiran Singh Bais

School of Liberal Arts & Sciences

Course Outcomes

Course Name: Statistics and Probability-I.

Course Code: MS 551

Year: I[st] M.Sc.

Semester: I[st]

Faculty Name: Kiran Singh Bais

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MS.551.1	Remember the basics of probability, measures of dispersion, properties	Remember
MS.551.2	Analyse the conditional probability, simple and partial correlations, errors of estimate.	Analyse
MS.551.3	Apply the laws of probability, Baye's theorem, total probability theorem, distributions and properties.	Apply
MS.551.4	Evaluate cumulative distribution functions, moments, covariance, mgf, correlation between the variables	Evaluate
MS.551.5	Analyse the linear and non linear regression and distribution of given data	Analyse
MS.551.6	Create and calculate transformation of random variables and angle between the lines of regression.	Create

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School of Liberal Arts and Sciences

Course Outcomes

Course Name: Analytical Solid Geometry

Course Code: MS 361

Year: III (B.Sc. Hons.)

Semester: Spring

Faculty Name: Dr. Kiran Singh Bais

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MS 361.1	Understand basic concepts of three dimensional geometry, direction cosines and direction ratios of a line. Different form of plane and straight lines,	Understand
MS 361.2	Apply concepts of dc's and dr's to find angle between two lines and planes, projection and shortest distance.	Apply
MS 361.3	Evaluate tangent plane, equation of normal, director sphere, polar plane and pole of the plane.	Evaluate
MS 361.4	Evaluate equation of the cone with given vertex and a given conic for its base, angle between the lines in which a plane cuts a con, tangent lines and tangent plane, reciprocal con, right circular con, different form of cylinder, equation of tangent plane, enveloping cylinder, right circular cylinder.	Evaluate
MS 361.5	Remember standard forms of planes, straight line , spheres, cone and cylinders, conicoids etc,	Remember
MS 361.6	Understand the basics of ellipsoid, hyperboloid of one and two sheets, elliptic paraboloid , hyperbolic paraboloid,	Understand

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School of Liberal Arts/ School of Science

Course Outcomes

Course Name: Computer Based Advanced Numerical Analysis

Course Code: MS 511

Year: I (M.Sc. Mathematics)

Semester: Autumn

Faculty Name: Dr. Kiran Singh Bais

CO Number	**Course Outcome statement** At the completion of the course, student will be able to	**Taxonomy Level**
MS 511.1	Understand basic concepts of Existence of solution of system of equations, ill-conditioned system and convergence of iteration methods.	Understand
MS 511.2	Apply different iterative method to solve system of linear equations, boundary value problems.	Apply
MS 511.3	Evaluate roots of equations by Newton-Raphson method, Graeffe's root squaring method, Muller's method , Bairstow iterative method.	Evaluate
MS 511.4	Understand algebraic and transcendental equations, different boundary value problems.	Understand
MS 511.5	Remember different types of partial differential equations, parabolic, hyperbolic and elliptic equations.	Remember
MS 511.6	Understand the curve fitting and regression, least square method, fitting of straight line and second order polynomials.	Understand

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School of Liberal Arts & Sciences

Course Outcomes

Course Name: Probability and Statistics

Course Code: MS.351

Year: III Yr (B.Sc.(Horns))

Semester: V th

Faculty Name: Kiran Singh Bais

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MS.332.1	Remember the basics of probability, simple and composite hypothesis, type-I and type-2 errors.	Remember
MS.332.2	Understand the measures of dispersion, skewness and correlation.	Understand
MS.332.3	Apply Baye`s theorem, total probability, normal and uniform distribution	Apply
MS.332.4	Analyse the regression, distribution of random variables	Analyse
MS.332.5	Evaluate the mean ,mode, median, mass and density of the functions.	Evaluate
MS.332.6	Create the relation between the variables and formation of PDE	Create

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School of Liberal Arts/ School of Science

Course Outcomes

Course Name: Advanced Calculus

Course Code: MS332

Year: Third Yr

Semester: VI

Faculty Name: Kiran Singh Bais

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MS.332.1	Define Functions, continuity, integral, power series, Partial differential equation.	Remember
MS.332.2	Explain the convergence, implicit function, Taylors's series with remainder indeterminate forms, Definite integral.	Understand
MS.332.3	Solve Power Series (tests for convergence, region of convergence, uniform convergence), Partial differential equation, Beta gamma function, Jacobians.	Apply
MS.332.4	Analyse Partial Differentiation- Euler's theorem on homogeneous functions, Directional derivative, higher differential, implicit functions,	Analyse
MS.332.5	Calculate functions expansion, directional derivatives, finite and infinite Integral.	Evaluate
MS.332.6	Derive Change of variables, differentiation of a definite integral, theorems.	Create

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Kiran Singh Bais

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Course Outcomes

Course Name: Special functions and transforms

Course Code: MS-312

Year: III-Yr (B.Sc. (PCM))

Semester: VIth

Faculty Name: Kiran Singh Bais

CO Number	**Course Outcome statement** At the completion of the course, student will be able to	**Taxonomy Level**
MS.312.1	Define Legendre,Bessal`s,laplace and fourier series.	Remember
MS.312.1	Explain Generating function, Orthogonal property Half rang fourier series and laplace transform method.	Understand
MS.312.2	Solve Recurrence relations, Rodrigue`s formula, Ordinary differential equation and fourier transform.	Apply
MS.312.3	Analyse the dirac-delta function, convolution theorem, fourier transform.	Analyse
MS.312.4	Evaluate the function by fourier series ,solution of legendre and bessels equation,	create

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Course Outcomes

Course Name: Numerical Analysis

Course Code: MS212

Year: Second

Semester: IV

Faculty Name: Kiran Singh Bais

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MS.212.1	Identify the iterative method, numerical methods and interpolation.	Remember
MS.212.2	Describe the given data and apply the suitable forward ,backward and central interpolation	Understand
MS.212.3	Apply forward, backward, central interpolation and Simpsons rule.	Apply
MS.212.4	Classify the problems based on finding roots between two values by applying iterative methods, finding intermediate values by using interpolation and integration by using Simpson's rule	Analyse
MS.212.5	Evaluate the functions value by applying iterative method, numerical methods and interpolation	Evaluate
MS.212.6	Derive the Bessel's and striling`s formula and central difference formulae.	Create

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Kiran Singh Bais

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Course Outcomes

Course Name: **Mathematics for Chemists**

Course Code: CH 551

Year: I (M.Sc. Chemistry)

Semester: Autumn

Faculty Name: Dr. Kiran Singh Bais

CO Number	**Course Outcome statement** At the completion of the course, student will be able to	**Taxonomy Level**
CH 551.1	Understand basic concepts of matrix algebra, Addition and multiplication; inverse, ad joint and transpose of matrices. Functions, continuity and differentiability.	Understand
CH 551.2	Apply to solve linear equations and conditions for the solution, linear dependence and independence, maxima and minima, chemical kinetics, secular equilibrium, quantum chemistry etc, second order differential equation and their solutions.	Apply
CH 551.3	Evaluate Permutations and combinations, probability, average, root means square and most probable errors.	Evaluate
CH 551.4	Understand basic rules for integration, integration by parts, partial fraction and substitution. Reduction formulae, applications of integral calculus.	Understand
CH 551.5	Remember standard types of matrices (Symmetric, skew-symmetric, Hermitian, Skew-Hermitian, unit, diagonal, unitary etc.)	Remember
CH 551.6	Understand concepts of curve fitting (including least squares fit etc) with a general polynomial fit.	Understand

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Course Outcomes

Course Name: Biostatistics

Course Code:BT581

Year: I[st] yr

Semester: I[st]

Faculty Name: Kiran Singh Bais

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BT581.1	Remember arithmetic, Geometric, harmonic properties, classification of data, kurtosis.	Remember
BT581.2	Analyse the types of frequency graph, correlation between variables, skewness.	Analyse
BT581.3	Apply the mathematical properties of standard deviations, tests and distributions	Apply
BT581.4	Evaluate the angle between the regression lines, area under the normal curve, rank correlation, coefficient of variation, measures of dispersion.	Evaluate
BT581.5	Analyse the primary and secondary data	Analyse
BT.581.6	Create the graph and curve	Create

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Course Outcomes

Course Name: Virology and Mycology

Course Code: MB 521

Year: 2019-20

Semester: Autumn

Faculty Name: Dr. Rakesh Kumar Verma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MB521.1	Describe the distinctive characteristics of viruses, bacterio-phage and fungi including their classification, morphology and structures	Remember
MB521.2	Demonstrate the general methods for diagnosis and cultivation of viruses	Apply
MB521.3	Explain viral replication strategies; and compare and contrast replication mechanisms used by bacterial viruses	Understand
MB521.4	Describe the effect of viruses on plant morphology and cytology as well as explain their life cycles	Understand
MB521.5	Describe the life cycle and pathogenicity of Animal viruses	Understand
MB521.6	Outline the importance of VAM and lichens and discuss the life cycles of fungi and associated diseases	Apply

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7/11/19

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Course Outcomes

Course Name: Nutraceuticals and Functional Foods

Course Code: FN542

Year: 2019-2020

Semester: Spring

Faculty Name: Dr. Rakesh Kumar Verma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FN542.1	Define the nutraceuticals, functional foods, prebiotics and probiotics	Remember
FN542.2	Explain the major bioactive food constituents that are being incorporated into nutraceuticals and functional foods and know their benefits	Understand
FN542.3	Analyze the prebiotics and probiotics and describe the microbiota of GI tract and their impact on maturation of immune system	Analyze
FN542.4	Outline the technologies, legal requirements, and marketing issues for functional food development in India	Analyze
FN542.5	Evaluate the standards of evidence required for efficacy and safety assessment of nutraceutical and functional foods	Evaluate
FN542.6	Demonstrate the knowledge of the scientific basis and technologies available to suggest potential new functional food products	Apply

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Course Outcomes

Course Name: Basic Research Methodology

Course Code: FN 541

Year: 2019-20

Semester: Autumn

Faculty Name: Dr. Rakesh Kumar Verma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FN541.1	Describe the various kinds of research, objectives of doing research, research process, and criteria for good research	Understand
FN541.2	Evaluate and interpret current literature in the nutrition research and explain meaning and need of a research design	Evaluate
FN541.3	Apply the understanding of feasibility and practicality of research methodology for a research problem	Apply
FN541.4	Describe sampling methods, and criteria for selecting a sampling procedure as well as use the methods for data collection	Understand
FN541.5	Understand the basic principles and regulations in humans and animal research	Understand
FN541.6	Analyze, identify, compare and prepare the key elements of a research report and research paper	Analyze

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MODY UNIVERSITY
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Course Outcomes

Course Name: Nutraceuticals and Health Foods

Course Code: FN332

Year: 2019-2020

Semester: Spring

Faculty Name: Dr. Rakesh Kumar Verma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FN332.1	Define the nutraceuticals, functional foods, prebiotics and probiotics	Remember
FN332.2	Explain the major bioactive food constituents that are being incorporated into nutraceuticals and functional foods and know their benefits	Understand
FN332.3	Analyze the prebiotics and probiotics and describe the microbiota of GI tract and their impact on maturation of immune system	Analyze
FN332.4	Outline the technologies, legal requirements, and marketing issues for functional food development in India	Analyze
FN332.5	Evaluate the standards of evidence required for efficacy and safety assessment of nutraceutical and functional foods	Evaluate
FN332.6	Demonstrate the knowledge of the scientific basis and technologies available to suggest potential new functional food products	Apply

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Course Outcomes

Course Name: Nutrigenomics and Personalized Nutrition

Course Code: FN 321

Year: 2019-2020

Semester: Autumn

Faculty Name: Dr. Rakesh Kumar Verma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FN321.1	Describe the Nutrigenomics and Nutrigenetics as well as their role in human diseases	Understand
FN321.2	Analyze and describe the different branches of genomics and their applications in nutrition research	Analyze
FN321.3	Apply molecular biology tools to diagnose metabolic responses at cellular level	Apply
FN321.4	Discuss the of role bioactive compounds as regulators of transcription factors and epigenetic mechanisms	Understand
FN321.5	Describe the gene polymorphism and role of nutrients in cell metabolism	Understand
FN321.6	Understand the early life programming and demonstrate the molecular approaches for personalized nutrition	Understand

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Course Outcomes

Course Name: Food Safety

Course Code: FN 211

Year: 2019-20

Semester: Autumn

Faculty Name: Dr. Rakesh Kumar Verma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FN211.1	Describe the food safety and microbiological standards and limits for foods	Understand
FN211.2	Discuss the biological, chemical and physical food hazards, their food sources, impact on health and control measures	Understand
FN211.3	Demonstrate the importance of personal hygiene, disinfection of food premises, pest control and waste disposal	Apply
FN211.4	Describe the food safety management tools and their importance	Understand
FN211.5	Analyze the Indian food laws and standards as well as explain the role of FSSAI in food safety	Analyze
FN211.6	Apply the food safety guidelines for establishing a food service and explain the recent concerns about GM foods and organic foods	Apply

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Course Outcomes

Course Name: Laboratory Course in Bioinformatics & Scientific Communication

Course Code: BT524

Year: 2019-2020

Semester: Spring

Faculty Name: Dr. Rakesh Kumar Verma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BT524.1	Explain popular resources of NCBI and different databases	Understand
BT524.2	Use some tools like BLAST, ORF finder for new gene identification	Apply
BT524.3	Compare the nucleotide and amino acid sequence using MEGA 7.0 and Clustal Omega	Evaluate
BT524.4	Develop and analyze the phylogeny using MEGA 7.0.	Create
BT524.5	Test the recombination breakpoints in genomic sequences using RDP 4.0.	Evaluate
BT524.6	Derive the 3-D structure of proteins using Swiss-Model and Phyre-2.0.	Create

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Course Outcomes

Course Name: Introduction to Research Methodology

Course Code: BT333

Year: 2019-20

Semester: Autumn

Faculty Name: Dr. Rakesh Kumar Verma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BT333.1	Understand some basic concepts of research and objectives of doing research, research process and research designs	Understand
BT333.2	Analyze the current literature and research explorations in the relevant biological research and select appropriate research problem	Analyze
BT333.3	Select and distinguish appropriate research designs and methodologies to apply to a specific research project in biological sciences and allied fields	Analyze
BT333.4	Discuss the measurement & scaling techniques as well as the methods of data collection	Understand
BT333.5	Analyze, identify, compare and prepare the key elements of a research report and research paper	Analyze
BT333.6	Examine and conduct research in a more appropriate manner	Apply

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Course Outcomes

Course Name: Bioinformatics laboratory

Course Code: BT314

Year: 2019-2020

Semester: Spring

Faculty Name: Dr. Rakesh Kumar Verma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BT314.1	Discuss the tools and resources of NCBI	Understand
BT314.2	Determine the novel gene using BLAST tool	Apply
BT314.3	Compare the multiple sequences of DNA and Proteins	Evaluate
BT314.4	Develop a restriction map of a given gene for transformation	Create
BT314.5	Design PCR primers of In-Vitro amplification of specific gene	Create
BT314.6	Build a phylogenetic tree using MEGA 7.0 software	Create

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School of Liberal Arts and Science

Course Outcomes

Course Name: Introductory Biomedical Science

Course Code: BT291

Year: 2019-2020

Semester: Autumn

Faculty Name: Dr. Rakesh Kumar Verma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BT291.1	Describe the role of makers in disease identification , prognosis and treatment and also discuss the biochemical tests or these diseases	Remember
BT291.2	Understand the basic principles and applications of biosensors in disease diagnosis	Understand
BT291.3	Analyze the techniques used for screening of diseases	Analyze
BT291.4	Understand clinical applications of enzymes and proteins and will able to understand the role of nutrition in health	Understand
BT291.5	Demonstrate a detailed knowledge and understanding of the biology of human health, disease and disease processes to support an understanding of biomedical science	Apply
BT291.6	Demonstrate technical and analytical laboratory skills as they apply to biomedical sciences research and/or applications.	Apply

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Course Outcomes

Course Name: Genetic Engineering and Environmental Biotechnology Laboratory

Course Code: BT661

Year: 2019-2020

Semester: Autumn

Faculty Name: Dr. Rakesh Kumar Verma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BT661.1	Understand the meaning and importance of biotechnological tools and techniques pollution management	Understand
BT661.2	Demonstrate the methods for DNA, RNA and Plasmid isolation from different sources	Apply
BT661.3	Apply the genetic engineering techniques for crop improvements, disease diagnosis etc.	Apply
BT661.4	Apply fundamental principles of microbiology for identification of microbes isolated from contaminated water and soil	Apply
BT661.5	Explain the Bioethanol production using different waste products	Understand
BT661.6	Understand the quality of water based on the DO and BOD	Understand

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Course Outcomes

Course Name: Bioinformatics, Scientific Communication & Intellectual Property Rights

Course Code: BT592

Year: 2019-2020

Semester: Spring

Faculty Name: Dr. Rakesh Kumar Verma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BT592.1	Describe bioinformatics and its tools, and explain the biological databases as well as describe how bioinformatics literature and data is stored and organized	Understand
BT592.2	Summarize current and emerging issues relating to the intellectual property protection, including those relating to indigenous knowledge or culture, biotechnology and bioinformatics	Understand
BT592.3	Apply intellectual property law principles (including copyright, patents, designs and trademarks) to real problems	Apply
BT592.4	Compare the amino acid and nucleotide sequences and explain the major steps in pair-wise and multiple sequence alignment	Evaluate
BT592.5	Analyze how secondary and 3-D structures of proteins are predicted and describe the process of homology modeling	Analyze
BT592.6	Build UPGMA, NJ, and ML phylogenetic tress and explain its algorithms	Create

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Course Outcomes

Course Name: Bioinformatics

Course Code: BT352

Year: 2019-2020

Semester: Spring

Faculty Name: Dr. Rakesh Kumar Verma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BT352.1	Define Bioinformatics and networking and elaborate its applications and tools	Remember
BT352.2	Describe the contents and properties of most important bioinformatics databases	Understand
BT352.3	Compare nucleotide and amino acid sequences employing bioinformatics tools	Evaluate
BT352.4	Explain text- and sequence-based searches using accession numbers, gene names and sequences as well as discuss the results in light of molecular biological knowledge	Understand
BT352.5	Discuss genomic and proteomic approaches and associated technologies	Understand
BT352.6	Build phylogenetic trees using UPGMA, NJ and ML methods	Apply

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Course Outcomes

Course Name: Environmental and Agricultural Microbiology

Course Code: MB 681

Year: Academic Year: 2019-20

Semester: Autumn

Faculty Name: Dr. Harish Kumar Dhingra

At the end of the course, students will be able to

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MB 681.1	Learn the concept of soil and Soil microflora	Understand
MB 681.2	Learn the about primary, secondary and tertiary waste water treatment	Understand
MB 681.3	Learn about different types of biofuels-bioethanol, biodiesel and bio-gas and about their advantages and limitations	Understand
MB 681.4	Learn about biopesticides and biogeochemical cycles and role of microbes in each cycle	Understand
MB 681.5	Learn the concept of biofertilizers and waste water treatment methods	Understand
MB 681.6	Apply their knowledge to perform biodegradation at contamination site by taking case by case study	Apply

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Course Outcomes

Course Name: Mechanics, Properties of Matter and Relativity

Course Code: PH 111

Year: B.Sc. I Year

Semester: I / Autumn

Faculty Name: Dr. Brajraj Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
1	Understand the motion of objects in different frame of references.	Remember
2	Describe how fictitious forces arise in a non-inertial frame, e.g., why a person sitting in a merry-go-round experiences an outward pull.	Apply
3	Understand the phenomena of collisions and idea about center of mass and laboratory frames and their correlation.	Understand
4	Evaluate elastic properties through the study of Young Modulus, Bulk Modulus and Modulus of rigidity.	Evaluate
5	Apply simple principles of fluid flow and the equations governing fluid dynamics.	Apply
6	Describe special relativistic effects and their effects on the mass and energy of a moving object.	Understand /apply

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Course Outcomes

Course Name: Advance Condensed Matter Physics

Course Code: PH 613

Year: M.Sc. II Year

Semester: III/ Autumn

Faculty Name: Dr. Brajraj Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
1	Understand the basic idea of optical properties and their applications in investigation of materials	Understand
2	Understand and apply the various process techniques available of X-Ray Crystallography for prediction of materials	Apply
3	Rigorous study of various theoretical treatments of superconductivity, including BCS theory	Understand
4	Quantum mechanical illustration of the diamagnetic, paramagnetic, ferro and antiferro -magnetic properties of matter	Apply
5	Evaluate various physical properties changes due to defects and imperfections.	Evaluate

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Course Outcomes

Course Name: Advance Condensed Matter Physics

Course Code: PH 611

Year: M.Sc. II Year

Semester: III/ Autumn

Faculty Name: Dr. Brajraj Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
1	Apply network theorems to analyze the circuit	Analyze
2	Understand and apply the various transistors configuration for the fabrication of different amplifiers	Apply
3	Explain the working, design considerations and applications of various semiconducting devices including p-n junctions, BJTs and FETs	Understand
4	Evaluate various physical parameters of Feed amplifiers	Evaluate
5	Demonstrate the knowledge of operational amplifiers in their applications	Apply

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Course Outcomes

Course Name: Classical Mechanics

Course Code: PH 521

Year: M.Sc. Physics

Semester: I / Autumn

Faculty Name: Dr. Brajraj Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
1	Understand the basics and formulation of Lagrangian and Hamiltonian approaches in classical mechanics.	Understand
2	Apply the formulation Lagrangian and Hamiltonian approaches to solve various Physics problems.	apply
3	Understand classical background of Quantum mechanics and get familiarized with Poisson brackets and Hamilton -Jacobi equation	Understand
4	Apply Kinematics and Dynamics of rigid body in detail and understand ideas regarding Euler's equations of motion	apply
5	Derive Lorentz transformation equations by using special Theory of Relativity.	Analyze
6	Define Four Dimensional Space and deduce the transformation formulation	apply

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Course Outcomes

Course Name: Fiber Optics

Course Code: PH333

Year: B.Sc. III Year

Semester: Autumn

Faculty Name: Dr. Brajraj Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
1	Understanding of optical fiber communication link, structure, propagation and transmission properties of an optical fiber	Understand
2	Distinguish Step Index, Graded index fibers and compute modes, V parameter	Analyze
3	Learn the various construction techniques along with their comparison and the construction and characteristics of optical sources and detectors	Remember
4	Describe the principles of various optical loses and methods to reduce loses	Apply
5	Understand the various power launching and coupling methods	Understand
6	and design a fiber optic link based on budgets	Evaluate

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Course Outcomes

Course Name: Optics and Lasers

Course Code: PH 221

Year: B.Sc. II Year

Semester: Autumn

Faculty Name: Dr. Brajraj Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
1	Understand Interference as superposition of waves from coherent sources derived from same parent source.	Understand
2	Articulate and describe the interference principle in thin films, wedge shaped films, Newton's Ring and Michelson Interferometer.	Apply
3	Demonstrate basic concepts of Diffraction: Superposition of wavelets diffracted from aperture, understand Fraunhoffer and Fresnel Diffraction.	Evaluate
4	Articulate and demonstrate the polarization through refraction and reflection and analysis of circularly and elliptically polarized light.	Apply
5	Understand the working of Ruby, He-Ne, Semiconductor Laser, wave propagation in Fiber and evaluate Numerical aperture of Fiber	Evaluate

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Course Outcomes

Course Name: Physics Laboratory-I

Course Code: PH131

Year: B.Sc. I Year

Semester: Autumn

Faculty Name: Dr. Brajraj Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
1	Formula used of experiment (Exp 1 – Exp 8)	Remember
2	Apparatus required and theory of experiment (Exp 1 – Exp 8)	Understand
3	Circuit formation and taking observation of experiment (Exp 1 – Exp 8)	Apply
4	Calculations of experiment (Exp 1 – Exp 8)	Analyze
5	Result of experiment (Exp 1 – Exp 8)	Evaluate
6	precautions of experiment (Exp 1 – Exp 8)	Apply

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Course Outcomes

Course Name: Oscillations and Waves

Course Code: PH 132

Year: B.Sc. I Year

Semester: I / Spring

Faculty Name: Brajraj Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
1	Understand simple harmonic motion (SHM), be able to derive and solve the equations of motions for physical systems that undergo SHM	Understand
2	Adapt the general SHM solution for specific initial conditions	Analyze
3	**Derive** the velocity and acceleration of SHM and the kinetic, potential and total energy of a mechanical system undergoing SHM	Create
4	Understand and be able to **derive** and solve the equations for the damped oscillator in the overdamped, critically-damped and underdamped regimes	Create
5	Understand and be able to **derive** and solve the equations for a forced oscillator; understand the concept of resonance and the response of a system (amplitude and phase, power dissipation) as a function of driving frequency and the effects of transients	Create
6	**Calculate** the quality factor Q for damped and driven oscillators	Apply
7	**Understand** the principle of linear superposition and the phenomenon of beating	Understand

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Course Outcomes

Course Name: Physics Laboratory -IV

Course Code: PH 222

Year: B.Sc. II Year

Semester: 4th / Spring

Faculty Name: Brajraj Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
1	To **determine** the resolving power of a telescope.	Apply
2	To **determine** the wavelength of sodium light with the help of Newton's ring experiment.	Apply
3	To **measure** the numerical aperture of an optical fiber	Evaluate
4	To **measure** the wavelength of He-Ne laser beam with a Ruler or vernier calliper.	Evaluate
5	To study the reverse saturation current material constant, temperature coefficient of junction voltage and energy band gap of P-N Junction.	Analyze
6	To verify that impedance of a capacitance c varies as $Zc=12\pi fc/$ and to measure the value of the capacitance.	Evaluate
7	To **Determine** unknown inductance using Maxwell's bridge.	Apply
8	To **compare** the Mutual Inductance of two pairs of coils using ballistic Galvanometer.	Evaluate

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Course Outcomes

Course Name: Elements of Nuclear Physics

Course Code: PH322

Year: B.Sc. III Year

Semester: Spring

Faculty Name: Dr. Brajraj Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
1	Get the knowledge of basic properties of the nucleus and different models to justify the stability of nucleus.	Remember
2	Get idea about the spin parity concept, Liquid drop Model, Fermi Gas Model, magic no. Related to shell model.	Understand
3	have a concept and nature of nuclear force, weak forces, Meson theory	Understand
4	know various methods of accelerating various types of particles to perform scattering experiments	Remember
5	Understand the classification of elementary particles and their properties along with standard model.	Understand
6	Get the idea about conservation laws, spin, parity, symmetry, isospin and strangeness.	Remember

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Course Outcomes

Course Name: Elements of Nuclear and Particle Physics

Course Code: PH552

Year: M.Sc. Physics I Year

Semester: Spring

Faculty Name: Dr. Brajraj Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
1	Understand the general properties and concepts of nuclei along with various nuclear models.	Understand
2	Solve the two body bound for deuteron and analyses the scattering properties.	Evaluate
3	Understand the various decay process along with applications.	Apply
4	learn and explain nuclear reaction dynamics and weak, strong nuclear interactions	Understand
5	Understand the standard model and its limitations and the properties of QCD.	Understand
6	Know the basic rules of Feynman diagrams and the quark model for hadrons.	Apply

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Course Outcomes

Course Name: Advance Physics Laboratory

Course Code: PH572

Year: M.Sc. I Year

Semester: Spring

Faculty Name: Dr. Brajraj Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
1	Demonstrate the quantization of charge on a drop through terminal velocity using Millikan's Oil drop method.	Apply
2	Measure the magnetic susceptibility of paramagnetic sample using Quincke's tube.	Evaluate
3	Measure specific charge of electron using Thomson method.	Analyze
4	Understand the space quantization using Zeeman effect experiment and apply it to calculate Bohr Magneton.	Apply
5	Experimentally demonstrate the concept of quantization of energy levels according to Bohr's model of atom through excitation of Neon atoms by inelastic scattering and determine the excitation energy.	Evaluate
6	Verify waveguide law using Klystron fitted microwave bench	Analyze
7	Determine the plateau and optimal operating voltage of a Geiger-Müller counter.	Understand
8	Determine the resolving time of a GM counter.	Apply

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Course Outcomes

Course Name: Material Science

Course Code: PH662

Year: M.Sc. II Year

Semester: Spring

Faculty Name: Dr. Brajraj Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
1	Have sound knowledge about the physics of different classes of materials.	Remember
2	Get concept of phase, phase diagram, phase boundaries, Invariant points and reactions leading to the understanding of the material synthesis and dependence of properties on thermodynamic parameters	Understand
3	Understanding nucleation, growth and phase transformation kinetics	Apply
4	Know the mechanics of time independent and time dependent deformation, Elastic, Anelstic and Viscoelastic behavior.	Understand
5	Get the concept of plastic deformation and creep in crystalline materials.	Remember
6	Understand the various methods for protection of materials, Oxidation and corrosion	Apply

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Course Outcomes

Course Name: Bioprocess Engineering

Course Code: BT 641

Year: 2019-20

Semester: Autumn

Faculty Name: Dr. Navneet Joshi

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BT641.1	Remember Microbial Growth and Product Kinetics	Remember
BT641.2	Understand Isolation, Preservation and Improvement of Industrially important Microorganisms	Understand
BT641.3	Apply Design of continuous sterilization process, Sterilization of air, Theory and design of depth filter.	Apply
BT641.4	Analyse Mass Transfer in Microbial System	Analyse
BT641.5	Evaluate Downstream Processing	Evaluate
BT641.6	Create Bioreactor– Packed bed, Fluidized bed, Tickle bed, CSTR, Plug flow reactor, Scale up of bioreactor.	Create

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Course Outcomes

Course Name: Animal Biotechnology

Course Code: BT522

Year: 2019-20

Semester: Spring

Faculty Name: Dr.Navneet Joshi

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BT522.1	Define established normal and transformed cell lines	Remember
BT522.2	Discuss Balanced salt solution, Semi-synthetic and synthetic media, Serum as a media supplement, Serum-free media, Feeder layers, Medium sterilization.	Understand
BT522.3	Demonstrate Disaggregation (mechanical, chemical and enzymatic), Primary culture, Secondary culture,	Apply
BT522.4	Classify Suspension and monolayer cultures, Immobilized cultures.	Analyse
BT522.5	Compare Growth curve, Growth kinetics, Synchronization of cells, Differentiation of cells, Transformation, Bioreactors	Evaluate
BT522.6	Formulate Tissue engineering, Production of monoclonal antibodies, Transgenic animals, Embryo culture and IVF, Gene therapy, Production of interferons and vaccines, Diagnostics	Create

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Course Outcomes

Course Name: Food Service Management

Course Code: FN322

Year: 2019-20

Semester: Spring

Faculty Name: Dr.Navneet Joshi

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FN322.1	Define Food service Institutions- Definition and importance, various types of food service institutions like hospitals, school meals, hostels, industrial canteens, commercial hotel	Remember
FN322.2	Discuss Theories about approaches to food service management	Understand
FN322.3	Demonstrate Tools of management – organization chart, types, structure, function; work improvement techniques	Apply
FN322.4	Classify Inventory management- assessing requirements, receiving and release of stocks. Record maintenance. Quantity food preparation and service- Factors in menu planning	Analyse
FN322.5	Compare food preparation and service. Kitchen control and maintenance of Kitchen records.	Evaluate
FN322.6	Formulate Budgeting, costing and cost control, accounting. 8. Hygiene and sanitation in preparation and serving area – Personal hygiene, types and sources of contamination, prevention and safety measures. Methods of controlling infestation. Methods of dish washing.	Create

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Course Outcomes

Course Name: Industrial Microbiology and Fermentation Technology

Course Code: MB 641

Year: 2019-20

Semester: Autumn

Faculty Name: Dr.Navneet Joshi

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MB641.1	Remember General Concepts of industrial microbiology	Remember
MB641.2	Understand Growth Kinetics	Understand
MB641.3	Apply Basic Concepts in Fermentation	Apply
MB641.4	Analyse Industrial Production	Analyse
MB641.5	Evaluate Production of other Metabolites	Evaluate
MB641.6	Create pathways for industrial production of amino acids	Create

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Course Outcomes

Course Name: Plant, Animal Biotechnology and Food Technology Laboratory

Course Code: BT514

Year: 2019-20

Semester: Spring

Faculty Name: Dr.Navneet Joshi

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BT514.1	Define various plant and animal tissue culture	Remember
BT514.2	Discuss flow chart for MS media preparation	Understand
BT514.3	Demonstrate cell viability assay	Apply
BT514.4	Classify plant and animal cell culture media	Analyse
BT514.5	Compare morphological and biochemical parameters	Evaluate
BT514.6	Formulate DMEM serum supplemented media	Create

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Course Outcomes

Course Name: Plant Biotechnology

Course Code: BT512

Year: Spring

Semester: 2019-20

Faculty Name: Dr.Navneet Joshi

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BT512.1	Define Tissue culture media, Totipotency, Organogenesis, Somatic embryogenesis- regulation and application, Artificial seed production, Micropropagation	Remember
BT512.2	Discuss Protoplast isolation, Culture and usage, Somatic hybridization-methods and applications, Cybrids and somatic cell genetics	Understand
BT512.3	Demonstrate Opines and their significance, T-DNA transfer mechanism, Disarming the Ti plasmid, *Agrobacterium* based vectors, Binary and shuttle vectors.	Apply
BT512.4	Classify Direct gene transfer - PEGmediated, electroporation, particle bombardment and alternative methods, Screenable and selectable markers, Characterization of transgenics, Markerfree Methodologies, Transgene stability and Gene silencing.	Analyse
BT512.5	Compare Herbicide resistance, Bacterial resistance, Viral resistance, Fungal resistance, Insects and pathogens resistance, Drought, Salinity, Thermal stress, Flooding and submergence tolerance Plants as Biofactories.	Evaluate
BT512.6	Formulate RFLP, RAPD Markers, STS, microsatellites, SCAR, SSCP, AFLP, QTL, map based cloning, molecular marker assisted selection.	create

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Course Outcomes

Course Name: Bioprocess engineering laboratory

Course Code: BT344

Year: 2019-20

Semester: Autumn

Faculty Name: Dr. Navneet Joshi

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BT344.1	Define Growth media, Bacterial growth rate kinetics.	Remember
BT344.2	Discuss factors influencing the choice of various carbon and nitrogen sources, vitamins	Understand
BT344.3	Demonstrate Sterilization of process fluids, recovering and purifying products	Apply
BT344.4	Classify biochemical reactions, including aerobic and anaerobic respiration and fermentation (involving pure and mixed cultures)	Analyse
BT344.5	Compare Shake flask, batch and continuous operations. Solid state fermentations. Primary and secondary metabolites	Evaluate
BT344.6	Formulate production media for penicillin production	Create

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Course Outcomes

Course Name: Plant Biotechnology

Course Code: BT322

Year: 2019-20

Semester: Spring

Faculty Name: Dr.Navneet Joshi

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BT322.1	Define General Principles: Terms and Definition, Historical aspects and scope Classical vs. modern approach, totipotency and cell theory, Principles underlying in vitro culture	Remember
BT322.2	Discuss Growth and differentiation, Culture media and its constituents, Media preparation,	Understand
BT322.3	Demonstrate Organization of plant tissue culture laboratory.	Apply
BT322.4	Classify Micropropagation: Basic technique, Automation in the area scope as a commercial venture, Production of disease free plants	Analyse
BT322.5	Compare Somaclonal and gametoclonal variation, Selection, Sources and causes of variation, Application in crop improvement.	Evaluate
BT322.6	Formulate Protoplast Related Techniques: Protoplast isolation, Protoplast culture and fusion, Selection of hybrid cells	Create

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Course Outcomes

Course Name: Animal Tissue Culture

Course Code: BT313

Year: 2019-20

Semester: Spring

Faculty Name: Dr.Navneet Joshi

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BT313.1	Define Structure, organization and biology of animal cell. General concepts of animal cell culture	Remember
BT313.2	Describe Media -Development of simple growth media, BSS. Chemical, physical and metabolic functions of different constituents of culture medium.	Understand
BT313.3	Determine Cell separation, Organ and histotypic cultures.	Apply
BT313.4	Analyse Cell cloning and micromanipulation	Analyse
BT313.5	Assess Cell culture based vaccines, Stem cell culture, Embryonic stem cells and their applications	Evaluate
BT313.6	Compare Cell cloning and micromanipulation, Transfection techniques, Cell transformation	Create

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Course Outcomes

Course Name: Plant and Animal Biotechnology

Course Code: BT242

Year: 2019-20

Semester: Spring

Faculty Name: Dr.Navneet Joshi

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BT242.1	Define General Principles: Terms and Definition, Historical aspects and	Remember
BT242.2	scope Classical vs. modern approach, totipotency and cell theory,	Understand
BT242.3	Principles underlying in vitro culture, Animal scientist	Apply
BT242.4	Discuss Growth and differentiation, Culture media and its constituents, Media preparation,Live stock Production	Analyse
BT242.5	Demonstrate Organization of plant tissue culture laboratory.	Evaluate
BT242.6	Classify Micropropagation: Basic technique, Automation in the area scope as a commercial venture, Production of disease free plants	Create

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Course Outcomes

Course Name: Tissue Culture Laboratory

Course Code: BT252

Year: 2019-20

Semester: Spring

Faculty Name: Dr.Navneet Joshi

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BT252.1	Define various morphological shapes of culture	Remember
BT252.2	Discuss flow chart for MS media preparation	Understand
BT252.3	Demonstrate cell viability assay	Apply
BT252.4	Classify plant and animal cell culture media	Analyse
BT252.5	Compare morphological and biochemical parameters	Evaluate
BT252.6	Formulate DMEM serum supplemented media	Create

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Course Outcomes

Course Name: Basics of Drug Designing

Course Code: BT172

Year: 2019-20

Semester: Spring

Faculty Name: Dr.Navneet Joshi

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BT172.1	Define Drug designing-Meaning and Introduction, Disease and drug target identification	Remember
BT172.2	Discuss SAR, optimising target interactions	Understand
BT172.3	Demonstrate Toxicology and safety issues, Development and Production, Clinical trials, Patenting issues	Apply
BT172.4	Classify clinical trials. Microbial genomics for new antibiotics	Analyse
BT172.5	Compare immunotoxin drug	Evaluate
BT172.6	Formulate Drug discovery in cancer research/new target based drugs in clinical trials.	Create

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Course Outcomes

Course Name: Bio-Instrumentation
Course Code: BC211
Year: 2019-20
Semester: Autumn
Faculty Name: Dr.Navneet Joshi

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BC211.1	Define General Principles: pH meter, centrifugation, spectrophotometry, Electrophoresis, Chromatography	Remember
BC211.2	Discuss Sterilization Techniques, Analytical and Preparative centrifugation, Atomic spectroscopy	Understand
BC211.3	Demonstrate 2-D PAGE, Agarose and SDS gel electrophoresis	Apply
BC211.4	Classify Thin layer, Column chromatography, Permeation, Ion exchange and Affinity chromatography	Analyse
BC211.5	Compare Ultra-violet and Visible Spectroscopy	Evaluate
BC211.6	Formulate IEF, pI equation	Create

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Course Outcomes

Course Name: Bio-Instrumentation Laboratory
Course Code: BC221
Year: 2019-20
Semester: Autumn
Faculty Name: Dr.Navneet Joshi

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BC221.1	Define principle and working of pH meter, centrifugation, spectrophotometry, Electrophoresis, Chromatographic techniques	Remember
BC221.2	Discuss Sterilization Techniques, Autoclaving	Understand
BC221.3	Demonstrate electrophoretic techniques	Apply
BC221.4	Classify techniques of chromatography	Analyse
BC221.5	Compare Ultra-violet and Visible Spectroscopy	Evaluate
BC221.6	Formulate the equation for estimation of pI	Create

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Course Outcomes

Course Name: Biophysical Techniques

Course Code: BC 521

Year: 2019-20

Semester: Autumn

Faculty Name: Dr.Navneet Joshi

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BC521.1	Understand Basic Principles of Biophysics	Understand
BC521.2	Remember Principles of centrifugation	Remember
BC521.3	Apply Spectroscopic Techniques to evaluate absorption in colored solutions	Apply
BC521.4	Analyse technique of electrophoresis	Analyse
BC521.5	Evaluate Chromatographic Techniques	Evaluate
BC521.6	Create the concept of Autoradiography, Radio-immunoassay and ELISA	Create

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Course Outcomes

Course Name: Basic Differential Geometry

Course Code: MS 352

Year: III (B.Sc. Hons.)

Semester: Spring

Faculty Name: Dr. Arvind Maharshi

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MS 352.1	Understand basic concepts of tensors, graphs and level sets, vector fields, the tangent space, surfaces, vector fields on surfaces orientation.	Understand
MS 352.2	Apply tensors in differential geometry and basic properties, uses of tensors in differential geometry.	Apply
MS 352.3	Evaluate curvature of plane curves, arc length and the line integrals, curvature of surfaces. Envelops and evolutes of different family of surfaces.	Evaluate
MS 352.4	Understand Envelops and evolutes, first fundamental form, metric potentials, direction coefficient and angle between two curves on a surface	Understand
MS 352.5	Remember standard results related to tensors and geometry, standard definitions.	Remember
MS 352.6	Understand the basics related to geodesics for the different surfaces.	Understand

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Course Outcomes

Course Name: Differential Equations-I

Course Code: MS 122

Year: I (B.Sc.)

Semester: Spring

Faculty Name: Dr. Arvind Maharshi

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MS 122.1	Understand the formation of differential equation, order and degree of equation, general and particular solution of equations.	Understand
MS 122.2	Analyze various types of differential equations of first order and first degree and different forms and corresponding methods for solutions.	Analysis
MS 122.3	Evaluate degree and order of differential equation, solution of first order and first degree differential equations, series solution.	Evaluate
MS 122.4	Understand occurrence of linear differential equations of constant and variable coefficients, different forms and methods.	Understand
MS 122.5	Remember standard formulae, different methods of CF and PI, standard forms and definitions.	Remember
MS 122.6	Apply power series method for the series solution of differential equations and its applications in different fields.	Apply

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Course Outcomes

Course Name: Physical Chemistry-IV

Course Code: CH 392

Year: B.Sc. III year 2019-20

Semester: VI Spring

Faculty Name: Dr. K.L.Ameta

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH 392.1	Analyze the determination of molecular weight from osmotic pressure, elevation of boiling point and depression in freezing point. Measurement of dipole moment-temperature method and refractivity method, Experimental methods for determining various colligative properties.	Analyze
CH 392.2	Evaluate colligative Properties, methods of expressing concentrations of solutions, activity and activity coefficient, Raoult's law, Magnetic properties-paramagnetism, diamagnetism and ferromagnetism.	Evaluate
CH 393.3	Remember interaction of radiation with matter, difference between thermal and photochemical processes. Laws of photochemistry: Grothus-Drapper law, Stark-Einstein law, Jablonski diagram depicting various processes occurring in the excited state,	Remember
CH 394.4	Explain the Osmosis, law of osmotic pressure and its measurement. Thermodynamic derivation of relation between molecular weight and elevation of boiling point and depression in freezing point.	Explain
CH 395.5	Understand the abnormal molar mass, degree of dissociation and association of solutes. Qualitative description of fluorescence, phosphorescence, quantum yield, photosensitized reactions-energy transfer processes with simple examples.	Understand
CH 396.6	Discuss classification of colloids. Solids in liquids (sols): properties-kinetic, optical and electrical Hardy-Schulze law, gold number. Application of colloids. Liquids in liquids (emulsions): types of emulsions, preparation, emulsifier	Discuss

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Course Outcomes

Course Name: Photochemical Reactions

Course Code: CH 611

Year: M.Sc. II year 2019-20

Semester: III

Faculty Name: Dr. K. L. Ameta

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH 611.1	Understand interaction of electromagnetic radiation with matter, types of excitations, fate of excited molecule, quantum yield, transfer of excitation energy and actinometry.	Understand
CH 611.2	Analyze the life times of reactive energy state; rate constants of reactions, effect of light intensity on the rate of photochemical reactionsand remember the types of photochemical reactions-photo dissociation, and gas-phase photolysis.	Analyze
CH 611.3	Remember the intramolecular reactions of the olefinic bond-geometrical isomerism, cyclisation reactions and rearrangement of 1,4- and 1,5-dienes.	Remember
CH 611.4	Apply the intra molecular reactions of carbonyl compounds to saturated, cyclic and acyclic, β,γ unsaturated and α, β unsaturated compounds, cyclohexadienones, dimerisation and oxetane formation.	Apply
CH 611.5	Explain the photochemical reactions of aromatic compounds: Isomerisations, additions and substitutions.	Explain
CH 611.6	Describe the mechanism of Photo-Fries reactions of anilides, Photo-Fries rearrangement, Barton reaction, Singlet molecular Oxygen reaction, Photochemical formation of smog. Photo degradation of polymers. Photochemistry of vision.	Describe

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Course Outcomes

Course Name: Organic Chemistry-I
Course Code: CH 513
Year: M.Sc. I year 2019-20
Semester:I
Faculty Name: Dr. K. L. Ameta

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH 513.1	Understand basic concept of conjugation, cross conjugation, resonance and hyperconjugation. Students will learn bonding in fullerenes. Student will understand the concept of tautomerism, aromaticity in benzenoid and non-benzenoid compounds, alternant and non-alternant hydrocarbons,Huckel's rule, energy level of π-molecular orbitals, annulenes, anti-aromaticity, homo-aromaticity.	Understand
CH 513.2	Analyze about conformational analysis, chirality, molecules with more than one chiral center, threo and erythronomenclature, methods of resolution, optical purity, enantiotopic and diastereotopic atoms, groups and faces, stereospecific and stereoselective synthesis, asymmetric synthesis and optical activity in the absence of chiral carbon.	Analyze
CH 513.3	Remember about thermodynamic and kinetic requirementsof reactions, Hammond's postulate, Curtin-Hammett principle, Potential energy diagrams, transition states and intermediates, Students willlearn about the methods of determining mechanisms, structure, stability and reactivity of carbocations, carbanions, free radicals, carbenes and nitrenes.	Remember
CH 513.4	Describe the mechanism of SN2, SN1, SNi mixed SN1 and SN2 and SET, NGP by σ and π bonds, anchimeric assistance. Understand the structures of Classical and nonclassicalcarbocations, phenonium ions, norbornyl system, Nucleophilic substitution at an allylic, aliphatictrigonal and a vinylic carbon, ambident nucleophile, regioselectivity and apply it to various related reactions.	Describe
CH 513.5	Apply the mechanisms of SE2, SEi and SE1 mechanism and E+ substitution via double bond shifts. Effect of substrates, leaving groups and the solvent polarity on the reactivity on all mechanisms.	Apply
CH 513.6	Explain the arenium ion mechanism, orientation and reactivity and apply it to various reactions.Students will also understand the energy profile diagrams, ortho/para ratio and ipso attack, diazonium coupling, Vilsmeir reaction, Gatterman-Koch reaction.	Explain

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Course Outcomes

Course Name: Organic Chemistry Laboratory-I
Course Code: CH 581
Year: M.Sc. I year 2019-20
Semester:I
Faculty Name: Dr. K. L. Ameta

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH 581.1	Understand the separation, purification and identification of compounds of binary mixture (one liquid and one solid / two liquids / two solids) using TLC and column chromatography, chemical tests and analyze IR spectra for functional group identification	Understand
CH 581.2	Evaluate the acetylation of cholesterol and separation of cholesteryl acetate by column chromatography.	Evaluate
CH 581.3	Explain the oxidation of adipic acid by chromic acid oxidation of cyclohexanol	Explain
CH 581.4	Create the Grignard synthesis of triphenylmethanol from benzoic acid	Create
CH 581.5	Analyze the Aldol condensation, preparation of dibenzal acetone from benzaldehyde.	Analyze
CH 581.6	Describe the Sandmeyer reaction, preparation of p-chlorotoluene from p-toluidine	Describe

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Course Outcomes

Course Name: Organic Chemistry-I

Course Code: CH 191

Year: B.Sc. I year 2019-20

Semester: I

Faculty Name: Dr. K. L. Ameta

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH 191.1	Remember the concept of bond angle, bond length, bond energy, conjugation and all fundamentals related to bonding and hybridization, hydrogen bonding, clathrates, inclusion compounds, charge-transfer compounds and field effects.	Remember
CH 191.2	Understand the different types of isomerism, elements of symmetry and different concepts related to stereochemistry.	Understand
CH 191.3	Analyze the different relative and absolute nomenclature of chiral compounds and apply to some unsolved examples.	Analyze
CH 191.4	Apply conformational isomers into various projection formulas concept of geometrical isomerism, its types and applications in oximes and alicyclic compounds.	Apply
CH 191.5	Explain preparation, properties and reactivity of alkanes and alkenes.	Explain
CH 191.6	Describe the preparation, properties and reactivity and conformation of cycloalkenes	Describe

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Course Outcomes

Course Name: Organic Chemistry IV

Course Code: CH 292

Year: B.Sc. II year 2019-20

Semester: IV Spring

Faculty Name: Dr. K. L. Ameta

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH 292.1	Analyze the mechanism of nucleophilic additions to carbonyl group with particular emphasis on Benzoin, Aldol, Perkin and Knoevenagel condensations, condensation with ammonia and its derivatives. Wittig reaction, Mannich reaction.	Analyze
CH 292.2	Evaluate the acidity of carboxylic acids, effects of substituents on acid strength. Preparation of carboxylic acids, Reactions of Carboxylic acids- Hell-Volhard-Zelinsky reaction. Synthesis of acid chlorides, esters and amides, Reduction of carboxylic acids.	Evaluate
CH 292.3	Remember Hydroxy acids; malic, tartaric and citric acids. Methods of preparation and chemical reactions of three unsaturated monocarboxylic acids. Dicarboxylic acids: methods of preparation and effect of heat and dehydrating agents (succinic, glutaric and adipic acids).	Remember
CH 292.4	Explain the Structure of the carbonyl group. Synthesis of aldehydes and ketones from acid chlorides, 1,3-dithianes, nitrites and from carboxylic acids.	Explain
CH 292.5	Understand the Structure and nomenclature of acid chlorides, esters, amides (urea) and acid anhydrides. Relative stability of acyl derivatives and interconversion of acid derivatives by nucleophilic acyl substitution.	Understand
CH 292.6	Apply acetals as protecting group. Oxidation of aldehydes, Baeyer-Villiger oxidation of ketones, Cannizzaro reaction, MPV, Clemmensen, Wolff-Kishner reaction.	Apply

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Course Outcomes

Course Name: Organic Chemistry II

Course Code: CH 514

Year: M.Sc. I year 2019-20

Semester: II Spring

Faculty Name: Dr. K. L. Ameta

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH 514.1	Analyze the SNAr, SN1, benzyne and SRN1 mechanism, Reactivity; effect of substrate structure, leaving group andattacking nucleophile. The Von Richter, Sommelet - Hauser, and Smiles rearrangments.	Analyze
CH 514.2	Evaluate the mechanism at an aromatic substrate, neighbouring group assistance. Allylic halogenation (NBS), oxidation of aldehydes to carboxylic acids, auto-oxidation, coupling of alkynes and arylation of aromatic compounds by diazonium salts, Sandmeyer reaction.	Evaluate
CH 514.3	Remember addition to cyclopropane ring. Hydrogenation of double and triple bonds, hydrogenation of aromatic rings. Hydroboration, Michael reaction, sharpless asymmetric epoxidation.	Remember
CH 514.4	Explain the organozinc and organolithium reagents to carbonyl and unsaturated carbonyl compounds. Wittig reaction. Mechanism of condensation reactions involving enolates-Aldol, Knoevenagel, Claisen, Mannich, Benzoin, Perkin and Stobbe reactions.	Explain
CH 514.5	Understand the E2, E1 and E1CB mechanisms and their spectrum. Orientation of the double bond. Mechanism and orientation in pyrolytic elimination.	Understand
CH 514.6	Apply FMO and PMO approach. Correlation diagram, selection rules. Claisen, Cope and aza-Cope rearrangements, Ene reaction.	Apply

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Course Outcomes

Course Name: Laboratory course in Chemistry-IV

Course Code: CH 262

Year: Academic Year: 2019-20

Semester: IV Spring

Faculty Name: Dr. K.L.Ameta

At the end of the course, students will be able to

CO Number	**Course Outcome statement** At the completion of the course, student will be able to	**Taxonomy Level**
CH 262.1	Understand handling with various chemistry glasswares and chemicals in organic chemistry laboratory.	Understand
CH 262.2	Learn and prepare various solutions used in the chemistry laboratory	Create
CH 262.3	Identify various organic compounds and characterize them.	Identify
CH 262.4	Prepare Benzophenone oxime from benzophenone	Understand
CH 262.5	Test the extra elements present in organic compounds through L.S and identification of functional groups	Evaluate
CH 262.6	Process of purification of a given organic sample solid/liquid through crystallization	Remember

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Course Outcomes

Course Name: Organic Chemistry Laboratory-II
Course Code: CH 572
Year: M.Sc. I year 2019-20
Semester: II Spring
Faculty Name: Dr. K. L. Ameta

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH 572.1	Understand the synthesis of organic compounds by different mechanisms and quantitative analysis.	Understand
CH 572.2	Evaluate the percentage of sulphur in the given organic sample by Messenger's method.	Evaluate
CH 572.3	Explain the determination of DO, COD and BOD of water sample.	Explain
CH 572.4	Create the Synthesis of p-nitroaniline and p-bromoaniline.	Create
CH 572.5	Analyze the Friedel Crafts reaction: β-Benzoyl propionic acid from succinic anhydride and benzene.	Analyze
CH 572.6	Describe the Acetoacetic ester Condensation : Synthesis of ethyl-n-butylacetoacetate by A.E.E. condensation.	Describe

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Course Outcomes

Course Name: Organic Synthesis II

Course Code: CH 612

Year: M.Sc. II year 2019-20

Semester: IV Spring

Faculty Name: Dr. K. L. Ameta

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH 612.1	Understand disconnection approach, functional group inter-conversions, the importance of the order of events in organic synthesis, one group C-X and two group C-X disconnections, chemoselectivity, reversal of polarity, cyclisation reaction, amine synthesis.	Understand
CH 612.2	Analyze the Diels-Alder Reaction, 1,3-difunctionalised compounds, α, β- unsaturated carbonyl compounds, control in carbonyl condensations, 1,5-difunctionalised compounds. Micheal addition and Robinson annelation.	Analyze
CH 612.3	Remember the synthesis of 3-, 4-, 5- and 6-membered rings and aromatic heterocycles in organic synthesis.	Remember
CH 612.4	Apply acetylenes and aliphatic Nitro compounds in organic synthesis.	Apply
CH 612.5	Explain the Principle of protection of alcohol, amine, carbonyl and carboxyl groups.	Explain
CH 612.6	Describe the synthesis of Camphor, Longifoline, Cortisone, Reserpine, Vitamin D, Juvabione, Aphidicolin and Fredericamycin A.	Describe

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Course Outcomes

Course Name: Photochemistry and Green Chemistry Laboratory

Course Code: CH 364

Year: B.Sc. III year 2019-20

Semester: VI Spring

Faculty Name: Dr. K. L. Ameta

CO Number	**Course Outcome statement** At the completion of the course, student will be able to	**Taxonomy Level**
CH 364.1	Understand the role of photochemical reactions	Understand
CH 364.2	Perform the green synthesis of Aspirin	Create
CH 364.3	Remember the terms and steps of preparation of Paracetamol and characterize it	Remember
CH 364.4	Design the preparation of acetanilide	Design
CH 364.5	Apply the photochemical reduction to benzophenone	Apply
CH 364.6	Purify all the prepared drugs through crystallization	Analyze

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Course Outcomes

Course Name: Physical Geography-I

Course Code: GY 111

Year: 2019-20

Semester: Autumn

Faculty Name: Dr. Tathagata Ghosh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
GY 111.1	Understand the solar system and theories regarding origin of different planets.	Understand
GY 111.2	Understand components of earth and internal structure of the earth	Understand
GY 111.3	Define Rocks, its modes of occurrence	Understand
GY 111.4	Remember folding, faulting, earth quake and volcanoes.	Remember
GY 111.5	Remember different types of weathering	Remember
GY 111.6	Remember work of different agents and resulted landforms.	Remember

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Course Outcomes

Course Name: Bio-Geography- I

Course Code: GY 121

Year: 2019-20

Semester: Autumn

Faculty Name: Dr. Tathagata Ghosh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
GY 121.1	Understand the concept of ecology, ecosystem, food chain, food web and energy pyramid.	Understand
GY 121.2	Remember biogeochemical cycles.	Remember
GY 121.3	Describe factors and processes of soil formation and soil profile	Understand
GY 121.4	Remember distribution of flora and fauna and ecological factors of plants	Remember
GY 121.5	Understand biome and biodiversity	Understand
GY 121.6	Understand biodiversity hotspots of India and causes and consequences of human induced changes in the ecosystem.	Understand

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Course Outcomes

Course Name: Geography of India

Course Code: GY 211

Year: 2019-20

Semester: Autumn

Faculty Name: Dr. Tathagata Ghosh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
GY 211.1	Remember the Physiography and Geology of India	Remember
GY 211.2	Understand Drainage and Climate of India	Understand
GY 211.3	Understand Soils and Vegetation of India	Understand
GY 211.4	Understand Demographic Aspects of India	Understand
GY 211.5	Understand Cultural and Social Aspects of India	Understand
GY 211.6	Understand contemporary issues of India	Understand

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Course Outcomes

Course Name: Human Geography

Course Code: GY 221

Year: 2019-20

Semester: Autumn

Faculty Name: Dr. Tathagata Ghosh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
GY 221.1	Define human geography and theories.	Understand
GY 221.2	Explain adaptation in different parts of the world	Understand
GY 221.3	Explain elements of environment	Understand
GY 221.4	Describe causes and consequences of migration	Understand
GY 221.5	Determine urbanization and problems associated with.	Understand
GY 221.6	Explain region.	Understand

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Course Outcomes

Course Name: Climatology and Oceanography

Course Code: GY 311

Year: 2019-20

Semester: Autumn

Faculty Name: Dr. Tathagata Ghosh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
GY 311.1	Explain components of atmosphere	Understand
GY 311.2	Remember circulation of atmosphere	Remember
GY 311.3	Understand atmospheric disturbances	Understand
GY 311.4	Explain geography of ocean basin	Understand
GY 311.5	Explain salinity, temperature and density of ocean water.	Understand
GY 311.6	Explain dynamics of ocean water, coral reefs and ocean deposits.	Understand

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Course Outcomes

Course Name: Man and Environment

Course Code: GY 321

Year: 2019-20

Semester: Autumn

Faculty Name: Dr. Tathagata Ghosh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
GY 321.1	Explain components of environment	Understand
GY 321.2	Understand relationship between Man and Environment	Understand
GY 321.3	Describe deterministic, possibilistic and neo determinism approach.	Understand
GY 321.4	Understand Changing relationship of Man and Environment and Issues	Understand
GY 321.5	Understand Environmental Issues	Understand
GY 321.6	Remember Environmental Management	Remember

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Course Outcomes

Course Name: Practical Geography-I

Course Code: GY 132

Year: 2019-20

Semester: Spring

Faculty Name: Dr. Tathagata Ghosh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
GY 132.1	Explain different types of scales.	Understand
GY 132.2	Convert different type of scale.	Create
GY 132.3	make linear scale.	Create
GY 132.4	Prepare diagonal scale and vernier scale.	Create
GY 132.5	explain the concept of contour and projection.	Understand
GY 132.6	Create contour features.	Create

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Course Outcomes

Course Name: Physical Geography-II

Course Code: GY 112

Year: 2019-20

Semester: Spring

Faculty Name: Dr. Tathagata Ghosh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
GY 112.1	remember the geological time scale.	Remember
GY 112.2	explain the mechanism of isostasy	Understand
GY 112.3	develop the understanding of mountain building.	Create
GY 112.4	develop the understanding of plate tectonic.	Create
GY 112.5	explain the mechanism of endogenetic and exogenetic forces.	Understand
GY 112.6	define the cycle of erosion and its relation to drainage basin.	Understand

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Course Outcomes

Course Name: Bio-Geography- II

Course Code: GY 122

Year: 2019-20

Semester: Spring

Faculty Name: Dr. Tathagata Ghosh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
GY 122.1	explain the meaning of Succession.	Understand
GY 122.2	remember the meaning of climax.	remember
GY 122.3	Describe major biomes of the world and its association to the soils.	Understand
GY 122.4	Define the characteristics of ecology.	Understand
GY 122.5	Explain the interspecific relationships.	Understand
GY 122.6	Explain the impact of human interventions in the community ecology.	Understand

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Course Outcomes

Course Name: Economic Geography

Course Code: GY 212

Year: 2019-20

Semester: Spring

Faculty Name: Dr. Tathagata Ghosh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
GY 212.1	define economic geography.	Understand
GY 212.2	Explain the relationship of economic geography and its relation to space and time.	Understand
GY 212.3	Explain the classification of economic activities of the world.	Understand
GY 212.4	describe different types of agriculture systems.	Understand
GY 212.5	Determine the factors affecting location of economic activity.	Understand
GY 212.6	Explain the determinants of location of industries.	Understand

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Course Outcomes

Course Name: Geography of Resources

Course Code: GY 222

Year: 2019-20

Semester: Spring

Faculty Name: Dr. Tathagata Ghosh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
GY 222.1	Explain the concept of resources.	Understand
GY 222.2	identify the misconceptions of resources.	Remember
GY 222.3	differentiate between renewable and non-renewable resources.	Understand
GY 222.4	Explain the distribution of zinc, mica and gold.	Understand
GY 222.5	Explain the distribution of coal in India.	Understand
GY 222.6	Explain the distribution of petroleum in India.	Understand

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Course Outcomes

Course Name: Practical Geography-II

Course Code: GY 232

Year: 2019-20

Semester: Spring

Faculty Name: Dr. Tathagata Ghosh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
GY 232.1	Explain different types of cartographic techniques in geography	Understand
GY 232.2	create one, two and three dimensional diagrams.	Create
GY 232.3	interpret topographical maps.	Understand
GY 232.4	determine chain and tape survey.	Apply
GY 232.5	Determine stream ordering	Apply
GY 232.6	create profiles of topography.	Create

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Course Outcomes

Course Name: Geography of Settlement

Course Code: GY 312

Year: 2019-20

Semester: Spring

Faculty Name: Dr. Tathagata Ghosh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
GY 312.1	Define the characteristics of settlement geography.	Understand
GY 312.2	differentiate between metropolis, megalopolis, conurbation and rural-urban fringe and town.	Remember
GY 312.3	List out the determinants of rural settlement.	Understand
GY 312.4	Explain the characteristics of rural urban fringe.	Analyze
GY 312.5	Analyze determinants of urban settlements.	Understand
GY 312.6	Explain the settlement pattern.	Understand

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Course Outcomes

Course Name: Spatial Dimensions of Development

Course Code: GY 322

Year: 2019-20

Semester: Spring

Faculty Name: Dr. Tathagata Ghosh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
GY 322.1	Define the concept of development and planning.	Understand
GY 322.2	Differentiate between growth and development.	Understand
GY 322.3	differentiate between indicators of economic, social and environmental development.	Understand
GY 322.4	analyze formal and functional regions.	Analyze
GY 322.5	Understand the meaning of spatial dimensions.	Understand
GY 322.6	Analyze the characteristics of equity and efficiency.	Analyze

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Course Outcomes

Course Name: Practical Geography-III

Course Code: GY 332

Year: 2019-20

Semester: Spring

Faculty Name: Dr. Tathagata Ghosh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
GY 332.1	makefrequency distribution	Apply
GY 332.2	Prepare frequency curves and ogive.	Apply
GY 332.3	Calculate central tendency and dispersion.	Apply
GY 332.4	Understand the mechanism of prismatic compass survey	Understand
GY 332.5	Make climatic graphs.	Apply
GY 332.6	Remember weather symbols	Apply

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Course Outcomes

Course Name: Vedic Knowledge
Course Code: VK 111
Credit Hours: 03
Semester, Year: Autumn/Spring
Branch: CBCS (Open to All University Students)
Prerequisite: Interest in knowing about the knowledge of Vedas and Vedic Culture and literature

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
VK111.1	To understand the importance and significance of the Vedas in Indian tradition and the emergence of the Vedas	Understand
VK111.2	Understand the pronunciation rules of Vedic words and the definition and concept of Suktas in the Vedas	Understand
VK111.3	Understand many important concepts related to the Rigveda and the Yajurveda e.g. Samhita, Brahamana, Aranyaka and Upanishad.	Understand
VK111.4	Analyze the Suktas of Indrasuktam (Lord of rain), Vishnusuktam (Lord of Rain) and Shanti-adhyaya (Prayer for Harmony) from Yajurveda and Rudrasuktam from Shukla Yajurveda.	Analyze
VK111.5	Analyze the Suktas of Suryasuktam (Lord of Light) and Narayansuktam (Lord of Universe) from Yajurveda and the Suktas of Ganapatistavnam (God of Wisdom) Rasthrageetam (Song of Nation) and Swastivachanam (Faith in God) from Shukla Yajurveda Samhita.	Analyze
VK111.6	Analyze the Suktas of Medhasuktam (Perception Power), Shivasuktam (Concept of Mind) and Purushasuktam (Lord of Universe) from Shukla Yajurveda Samhita and the Suktas of Saraswati-stavanam (Goddess of Learning), Shaantipaathah (Serenity prayer of Yajurveda) from Shukla Yajurveda Samhita.	Analyze

Faculty Name: Dr. Amod Kumar Tiwari

MODY UNIVERSITY
A Leading Women's University

School of Liberal Arts and Sciences

Course Outcomes

Course Name: Genetic Engineering and Fermentation Technology Laboratory

Course Code: MB 671

Year: Academic Year: 2019-20

Semester: Autumn

Faculty Name: Dr. Harish Kumar Dhingra & Dr. Navneet Joshi

At the end of the course, students will be able to

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MB 671.1	Visit the Genetic Engineering laboratory and understand the working of various instruments to be used during the Genetic Engineering expts.	Analyse
MB 671.2	Learn and prepare various buffers used in the Genetic Engineering laboratory	Create
MB 671.3	Preparation of various stock solutions used in the Genetic Engineering laboratory	Create
MB 671.4	Learn about plasmid DNA preparation and Analyze the quality and quantity of isolated DNA sample using nano drop spectrophotometer	Understand
MB 671.5	Isolate and electrophorese plasmid DNA from overnight grown culture of *E. coli*	Create
MB 671.6	To Analyse various fermentation techniques for the production of high value products	Analyse

Signature of the faculty

MODY UNIVERSITY
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School of Liberal Arts and Sciences

Course Outcomes

Course Name: Medical, Environmental and Agricultural Microbiology Laboratory

Course Code: MB 651

Year: Academic Year: 2019-20

Semester: Autumn

Faculty Name: Dr. Harish Kumar Dhingra

At the end of the course, students will be able to

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MB 651.1	Isolate rhizobial cells from the root nodules of legumes and analyze the various identification characters of rhizobial cells	Analyse
MB 651.2	Perform bacteriological examination of water	Analyse
MB 651.3	Analyze the diversity of the microflora present in rhizospheric and non-rhizospheric soil	Analyse
MB 651.4	Calculation of the R:S ratio, Calculation of MPN of coliform in water	Apply
MB 651.5	Determination of TDS, TS and TSS, chloride ion concentration, dissolved oxygen in the given water sample	Analyse
MB 651.6	Estimation and analysis of microflora obtained from dental carries, skin and other body parts	Analyse

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School of Liberal Arts and Sciences

Course Outcomes

Course Name: Microbial Ecology Laboratory

Course Code: MB 322

Year: Academic Year: 2019-20

Semester: Spring

Faculty Name: Dr. Harish Kumar Dhingra

At the end of the course, students will be able to

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MB 322.1	Isolate rhizobial cells from the root nodules of legumes and analyze the various identification characters of rhizobial cells	Analyse
MB 322.2	Perform bacteriological examination of water	Analyse
MB 322.3	Analyze the diversity of the microflora present in rhizospheric and non-rhizospheric soil	Analyse
MB 322.4	Calculation of the R:S ratio, Calculation of MPN of coliform in water	Apply
MB 322.5	Determination of TDS, TS and TSS in the given water sample	Analyse
MB 322.6	Estimation of chloride ion concentration, dissolved oxygen in water	Analyse

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MODY UNIVERSITY
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School of Liberal Arts and Sciences

Course Outcomes

Course Name: Microbial Ecology

Course Code: MB 312

Year: Academic Year: 2019-20

Semester: Spring

Faculty Name: Dr. Harish Kumar Dhingra

At the end of the course, students will be able to

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MB 312.1	Learn the concept of biodiversity and application of biotechnology in its conservation	Understand
MB 312.2	Learn the about bioleaching process of copper and uranium from their ores and about MEOR	Understand
MB 312.3	Learn about different types of biofuels-bioethanol, biodiesel and bio-gas and about their advantages and limitations	Understand
MB 312.4	Learn about biopesticides and biogeochemical cycles and role of microbes in each cycle	Understand
MB 312.5	Learn the concept of biofertilizers and waste water treatment methods	Understand
MB 312.6	Apply their knowledge to perform biodegradation at contamination site by taking case by case study	Apply

4/1/20

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MODY UNIVERSITY
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School of Liberal Arts and Sciences

Course Outcomes

Course Name: Microbial Physiology and Genetics

Course Code: MB 211

Year: Academic Year: 2019-20

Semester: Autumn

Faculty Name: Dr. Harish Kumar Dhingra

At the end of the course, students will be able to

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MB 211.1	Learn the concept of Nutritional classification and metabolite transport	Understand
MB 211.2	Learn the Chemolitho- and photo-trophic metabolism	Understand
MB 211.3	Learn about Microbial Energetics	Understand
MB 211.4	Apply the knowledge for Concept of aerobic respiration, anaerobic respiration and fermentation. Central metabolic pathways	Apply
MB 211.5	Learn the Applications of Transformation, Transduction, Conjugation, Plasmids, and Transposons.	Understand
MB 211.6	Learn mechanism of Basic concepts of mutation, Molecular nature of mutations.	Understand

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School of Liberal Arts and Sciences

Course Outcomes

Course Name: Environmental Biotechnology

Course Code: BT 342

Year: Academic Year: 2019-20

Semester: Spring

Faculty Name: Dr. Harish Kumar Dhingra

At the end of the course, students will be able to

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BT 342.1	Learn the concept of biodiversity and application of biotechnology in its conservation	Understand
BT 342.2	Learn the about bioleaching process of copper and uranium from their ores and about MEOR	Understand
BT 342.3	Learn about different types of biofuels-bioethanol, biodiesel and bio-gas and about their advantages and limitations	Understand
BT 342.4	Learn about biopesticides and biogeochemical cycles and role of microbes in each cycle	Understand
BT 342.5	Learn the concept of biofertilizers and waste water treatment methods	Understand
BT 342.6	Apply their knowledge to perform biodegradation at contamination site by taking case by case study	Apply

4/1/20

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School of Liberal Arts and Sciences

Course Outcomes

Course Name: Genetic Engineering Laboratory

Course Code: BT 341

Year: Academic Year: 2019-20

Semester: Autumn

Faculty Name: Dr. Harish Kumar Dhingra

At the end of the course, students will be able to

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BT 341.1	Visit the Genetic Engineering laboratory and understand the working of various instruments to be used during the Genetic Engineering expts.	Analyse
BT 341.2	Learn and prepare various buffers used in the Genetic Engineering laboratory	Create
BT 341.3	Preparation of various stock solutions used in the Genetic Engineering laboratory	Create
BT 341.4	Learn about plasmid DNA preparation	Understand
BT 341.5	Isolate and electrophorese plasmid DNA from overnight grown culture of *E. coli*	Create
BT 341.6	Analyze the quality and quantity of isolated DNA sample using nano drop spectrophotometer	Analyse

1/8/19

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School of Liberal Arts and Sciences

Course Outcomes

Course Name: Genetic Engineering

Course Code: BT 311

Year: Academic Year: 2019-20

Semester: Autumn

Faculty Name: Dr. Harish Kumar Dhingra

At the end of the course, students will be able to

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BT 311.1	Learn the concept of Enzymes in Molecular Cloning, Principal enzymes used to manipulate DNA in vitro with their activities	Understand
BT 311.2	Learn the Cloning and Expression Vectors, Brief outline of plasmids, phagemids, bacteriophage lambda vectors	Understand
BT 311.3	Learn about DNA Cloning Strategies Criteria for the choice of suitable vectors and host	Understand
BT 311.4	Apply the knowledge for Tools of Recombinant DNA Technology	Apply
BT 311.5	Learn the Applications of Recombinant DNA Technology	Understand
BT 311.6	Learn mechanism of novel drug and therapies for genetic diseases, combating infectious diseases	Understand

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School of Liberal Arts and Sciences

Course Outcomes

Course Name: Molecular Biology

Course Code: BT 212

Year: Academic Year: 2019-20

Semester: Spring

Faculty Name: Dr. Harish Kumar Dhingra

At the end of the course, students will be able to

CO Number	**Course Outcome statement** At the completion of the course, student will be able to	**Taxonomy Level**
BT 212.1	Learn the concept of molecular basis of life by knowing the structure & properties of DNA and its organization in the cell	Understand
BT 212.2	Learn the nature of DNA replication in prokaryotes and eukaryotes and the maintenance of fidelity in the process	Understand
BT 212.3	Learn about mechanism of physical and chemical mutagens, and the method of mutation detection	Understand
BT 212.4	Apply the knowledge for understanding the mechanism of DNA repair	Apply
BT 212.5	Learn the process of transcription in prokaryotes and eukaryotes and splicing process	Understand
BT 212.6	Learn mechanism of polypeptide synthesis and concept of gene regulation	Understand

4/1/20

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School of Liberal Arts and Sciences

Course Outcomes

Course Name: Molecular Biology Laboratory

Course Code: BT 232

Year: Academic Year: 2019-20

Semester: Spring

Faculty Name: Dr. Harish Kumar Dhingra

At the end of the course, students will be able to

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BT 232.1	Visit the molecular biology laboratory and understand the working of various instruments to be used during the molecular biology expts.	Analyse
BT 232.2	Learn and prepare various buffers used in the molecular biology laboratory	Create
BT 232.3	Preparation of various stock solutions used in the molecular biology laboratory	Create
BT 232.4	Learn about plasmid DNA preparation	Understand
BT 232.5	Isolate and electrophorese plasmid DNA from overnight grown culture of *E. coli*	Create
BT 232.6	Analyze the quality and quantity of isolated DNA sample using nano drop spectrophotometer	Analyse

4/1/20

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School of Liberal Arts and Sciences

Course Outcomes

Course Name: Environmental Biotechnology

Course Code: BT 621

Year: Academic Year: 2019-20

Semester: Autumn

Faculty Name: Dr. Harish Kumar Dhingra

At the end of the course, students will be able to

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BT 621.1	Learn the concept of biodiversity and application of biotechnology in its conservation	Understand
BT 621.2	Learn the about bioleaching process of copper and uranium from their ores and about MEOR	Understand
BT 621.3	Learn about different types of biofuels-bioethanol, biodiesel and bio-gas and about their advantages and limitations	Understand
BT 621.4	Learn about biopesticides and biogeochemical cycles and role of microbes in each cycle	Understand
BT 621.5	Learn the concept of biofertilizers and waste water treatment methods	Understand
BT 621.6	Apply their knowledge to perform biodegradation at contamination site by taking case by case study	Apply

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MODY UNIVERSITY
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School of Liberal Arts and Sciences

Course Outcomes

Course Name: Genetic Engineering

Course Code: BT 611

Year: Academic Year: 2019-20

Semester: Autumn

Faculty Name: Dr. Harish Kumar Dhingra

At the end of the course, students will be able to

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BT 611.1	Learn the concept of Enzymes in Molecular Cloning, Principal enzymes used to manipulate DNA in vitro with their activities	Understand
BT 611.2	Learn the Cloning and Expression Vectors, Brief outline of plasmids, phagemids, bacteriophage lambda vectors	Understand
BT 611.3	Learn about DNA Cloning Strategies Criteria for the choice of suitable vectors and host	Understand
BT 611.4	Apply the knowledge for Tools of Recombinant DNA Technology	Apply
BT 611.5	Learn the Applications of Recombinant DNA Technology	Understand
BT 611.6	Learn mechanism of novel drug and therapies for genetic diseases, combating infectious diseases	Understand

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MODY UNIVERSITY
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School of Science

Course Outcomes

Course Name: Molecular Biology and Immunology Laboratory

Course Code: BT 572

Year: Academic Year: 2019-20

Semester: Spring

Faculty Name: Dr. Harish Kumar Dhingra

At the end of the course, students will be able to

CO Number	**Course Outcome statement** At the completion of the course, student will be able to	**Taxonomy Level**
BT 572.1	Determine the working of various instruments to be used during the molecular biology experiments	Analyse
BT 572.2	Learn and prepare various buffers and stock solutions used in the molecular biology laboratory	Create
BT 572.3	Learn about plasmid DNA preparation and its use in the genetic engineering experiments as a cloning vector	Understand
BT 572.4	Isolate plasmid DNA from overnight grown culture of *E. coli*	Create
BT 572.5	Perform the electrophoresis of the isolated DNA sample	Analyse
BT 572.6	Analyze the quality and quantity of isolated DNA sample using nano drop spectrophotometer and UV spectrophotometer	Analyse

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School of Liberal Arts and Sciences

Course Outcomes

Course Name: Molecular Biology

Course Code: BT 534

Year: Academic Year: 2019-20

Semester: Spring

Faculty Name: Dr. Harish Kumar Dhingra

At the end of the course, students will be able to

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BT 534.1	Learn the structure & properties of DNA, C-value, denaturation and renaturation concepts	Understand
BT 534.2	Learn the role of different proteins in replication, nature of DNA replication and the structure of DNA polymerase	Understand
BT 534.3	Learn the process of transcription, types of polymerases, promoter, Enhancers and transcription factors	Understand
BT 534.4	Learn nature of codon, anticodon, genetic code, mechanism of polypeptide synthesis, structure of tRNA and ribosome.	Understand
BT 534.5	Learn the difference in the initiation mechanism of prokaryotes and Eukaryotes	Understand
BT 534.6	Learn the different types of post transcriptional modifications and gene regulation	Understand

4/1/20

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School of Liberal Arts and Sciences

Course Outcomes

Course Name: Environmental Biotechnology Laboratory

Course Code: BT 392

Year: Academic Year: 2019-20

Semester: Spring

Faculty Name: Dr. Harish Kumar Dhingra

At the end of the course, students will be able to

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BT 392.1	Isolate rhizobial cells from the root nodules of legumes and analyze the various identification characters of rhizobial cells	Analyse
BT 392.2	Perform bacteriological examination of water	Analyse
BT 392.3	Analyze the diversity of the microflora present in rhizospheric and non-rhizospheric soil	Analyse
BT 392.4	Calculation of the R:S ratio, Calculation of MPN of coliform in water	Apply
BT 392.5	Determination of TDS, TS and TSS in the given water sample	Analyse
BT 392.6	Estimation of chloride ion concentration, dissolved oxygen in water	Analyse

Signature of the faculty 4/1/20

MODY UNIVERSITY
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School of Liberal Arts/ School of Science

Course Outcomes

Course Name: Enzyme Technology

Course Code: BT 334

Year: III

Semester: 6th

Faculty Name: Dr. Kanti Prakash Sharma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BT334.1	Remember enzymes name, classification and nomenclatures	Remember
BT334.2	Understand the fundamentals of enzyme properties, , characteristics and mechanisms	Understand
BT334.3	Apply biochemical calculation for enzyme kinetics	Apply
BT334.4	Analyze methods for production, purification, characterization and immobilization of enzymes	Analyse
BT334.5	Evaluate various application of enzymes for human welfare	Evaluate
BT334.6	Discover the current and future trends of applying enzyme technology for the commercialization purpose of biotechnological products.	Create

27/8/20

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School of Liberal Arts and Sciences

Course Outcomes

Course Name: Medical Biotechnology

Course Code: BP 391

Year: II

Semester: 3rd

Faculty Name: Dr K P Sharma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BT391.1	Students will have the knowledge on the fundamentals molecular changes during disease onsets and progression	Remember
BT391.2	Students will be able to understand the principles behind medical biotechnology	Understand
BT391.3	Students will be able to apply modern tools and equipments to identify diseases and medicines.	Apply
BT391.4	Students will analyse applications in biotechnological advancements in diseases diagnosis and management	Analyse
BT391.5	Students will also be able to evaluate the principles of diseases occurrences	Evaluate
BT391.6	Students will also develop specific skill based on their interest in medical diagnostics lab	Create

30/8/19

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School of Liberal Arts and Sciences

Course Outcomes

Course Name: Modern biology

Course Code: BT 381

Year: 19-20

Semester: Spring

Faculty Name: Dr. K P Sharma

At the end of the course, students will be able to

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BT381.1	Remember biosensor names and types, Types Intellectual protection	Remember
BT 381.2	Understand the working of biosensor functional mechanism Nano science application in various fields an dmethods of scientific communication	Understand
BT381.3	Apply nano sciences innovations, IP protection and scientific communication methods	Apply
BT381.4	Analyze the use of nanotechnology, biosensor innovations and IP protection in daily life	Analyse
BT381.5	Evaluate various application of nanotechnology, biosensor innovations and IP protection for human welfare	Evaluate
BT381.6	Discover the use of current and future trends of applying nanotechnology, biosensor and IP protection and scientific communications for the commercialization purpose of biotechnological products.	Create

KPS
12/2/20

MODY UNIVERSITY
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School of Liberal Arts and Sciences

Course Outcomes

Course Name: Food Technology

Course Code: BT 271

Year: 19-20

Semester: Autumn

Faculty Name: Dr. K P Sharma

At the end of the course, students will be able to

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BT271.1	Students will have the knowledge on the fundamentals biochemical changes during processing and preservation and preparations of nutraceuticals.	Remember
BT271.2	Students will be able to understand the principles behind analytical techniques used in evaluating the biochemical properties of food.	Understand
BT271.3	Students will be able to apply modern tools and equipments to analyze food composition, identify microorganism responsible for food spoilage.	Apply
BT271.4	Students will analyse applications in food industry, food processing, conventional and advanced methods of food preservation, methods of packing, post-harvest practices	Analyse
BT271.5	Students will also be able to evaluate the principles of Hazard Analysis and Critical Control Points (HACCP) to ensure safe food processing.	Evaluate
BT271.6	Students will also develop specific skill based on their interest in meat, poultry and fish processing, food fermentation, dairy processing.	Create

KPS
25/8/19

MODY UNIVERSITY
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School of Liberal Arts and Sciences

Course Outcomes

Course Name: Food Technology Laboratory

Course Code: BT 261

Year: 19-20

Semester: Autumn

Faculty Name: Dr. K P Sharma

At the end of the course, students will be able to

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BT 261.1	Role of microorganisms in food fermentation	Remember
BT 261.2	Basic mechanisms of microbial fermentation	Understand
BT 261.3	Apply the utility of microorganism in reducing food toxicity	Apply
BT 261.4	Analyze the changes during food fermentation	Analyse
BT 261.5	Evaluate food with reference to its quality	Evaluate
BT 261.6	Develop novel foods with the help of microorganism	Create

30/8/19

MODY UNIVERSITY
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School of Liberal Arts and Sciences

Course Outcomes

Course Name: Bioethics and IPR

Course Code: BT 181

Year: 19-20

Semester: Autumn

Faculty Name: Dr. K P Sharma

At the end of the course, students will be able to

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BT181.1	Students will have the knowledge on the IPR	Remember
BT181.2	Students will be able to understand various forms of IPR	Understand
BT181.3	Students will be able to apply her knowledge of IPR for protection of her work	Apply
BT181.4	Students will analyze applications of IPR for various work	Analyse
BT181.5	Students will also be able to evaluate the types of IPR with reference to product and process	Evaluate
BT181.6	Students will also develop specific skill to find out most appropriate method for IPR protection	Create

30/8/19

MODY UNIVERSITY
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School of Liberal Arts and Sciences

Course Outcomes

Course Name: Biotechnology and Human Welfare

Course Code: BT 171

Year: 19-20

Semester: Autumn

Faculty Name: Dr. K P Sharma

At the end of the course, students will be able to

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BT171.1	Students will have the knowledge on the fundamentals of Biotechnology.	Remember
BC171.2	Students will be able to understand the principles of Biotechnology tools and techniques	Understand
BC171.3	Students will be able to apply experimental skills to find out solution of today's world problem.	Apply
BC171.4	Students will analyze the potential of Biotechnology in solving world today's issues and concerns adversely affecting human life	Analyse
BC171.5	Students will also be able to evaluate application of Biotechnology in Animal, Plant, Food and Chemical sector	Evaluate
BC171.6	Students will also develop specific method for issues related with quality of human life	Create

Kps
3/7/19

MODY UNIVERSITY
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Course Outcomes

Course Name: Biomolecules

Course Code: BC 531

Year: 19-20

Semester: Autumn

Faculty Name: Dr. K P Sharma

At the end of the course, students will be able to

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BC531.1	Students will have the knowledge on the fundamentals of biomolecules.	Remember
BC531.2	Students will be able to understand the principles biochemical interactions	Understand
BC 531.3	Students will be able to apply experimental skills to analyze metabolic disturbances	Apply
BC531.4	Students will analyze applications of biochemistry in human diseases	Analyse
BC531.5	Students will also be able to evaluate the basic aspects of biochemistry in metabolism	Evaluate
BC 531.6	Students will also develop specific skill based on their interest in designing protocols for protein, lipid and carbohydrate quantification	Create

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29/8/19

MODY UNIVERSITY
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School of Liberal Arts and Sciences

Course Outcomes

Course Name: Biomolecules and Instrumentation Laboratory

Course Code: BC 541

Year: 19-20

Semester: Autumn

Faculty Name: Dr. K P Sharma

At the end of the course, students will be able to

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BT 541.1	Preparing various stock solutions and working solutions that will be needed for the course.	Remember
BT 541.2	To prepare an Acetic-Na Acetate Buffer and validate the Henderson-Hasselbach equation.	Understand
BT 541.3	Determination of protein concentration by ultraviolet spectroscopy	Apply
BT 541.4	Amino acid titration	Understand
BT 541.5	Separation of aliphatic, aromatic and polar amino acids by thin layer chromatography.	Understand
BT 541.6	To determine an unknown protein concentration by plotting a standard graph of BSA using UV-Vis Spectrophotometer and validating the Beer- Lambert"s Law.	Analyze

KPS
30/8/19

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School of Liberal Arts and Sciences

Course Outcomes

Course Name: Enzymology

Course Code: BC 611

Year: 19-20

Semester: Autumn

Faculty Name: Dr. K P Sharma

At the end of the course, students will be able to

CO Number	**Course Outcome statement** At the completion of the course, student will be able to	**Taxonomy Level**
BC 611.1	Remember enzymes name, classification and nomenclatures	Remember
BC 611.2	Understand the fundamentals of enzyme properties, , characteristics and mechanisms	Understand
BC 611.3	Apply biochemical calculation for enzyme kinetics	Apply
BC 611.4	Analyze methods for production, purification, characterization and immobilization of enzymes	Analyse
BC 611.5	Evaluate various application of enzymes for human welfare	Evaluate
BC 611.6	Discover the current and future trends of applying enzyme technology for the commercialization purpose of biotechnological products.	Create

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30/8/19

MODY UNIVERSITY
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School of Liberal Arts and Sciences

Course Outcomes

Course Name: Enzyme and Industrial Biochemistry Laboratory

Course Code: BC 322

Year: 19-20

Semester: Spring

Faculty Name: Dr. K P Sharma

At the end of the course, students will be able to

CO Number	**Course Outcome statement** At the completion of the course, student will be able to	**Taxonomy Level**
BC322.1	Know presence or absence of enzyme	Remember
BC322.2	Differentiate among various enzyme sources for industrial useful features	Understand
BC322.3	Understand the use of instruments for enzyme isolation and production	Apply
BC322.4	Apply biochemical calculation for enzyme activity determination	Analyse
BC322.5	Analyse methods for production, purification, characterization and immobilization of enzymes	Evaluate
BC322.6	Develop methods for production of enzyme	Create

KPS
12/2/20

MODY UNIVERSITY
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School of Liberal Arts and Sciences

Course Outcomes

Course Name: Chemistry Biomolecules

Course Code: BC 511

Year: 19-20

Semester: Autumn

Faculty Name: Dr. K P Sharma

At the end of the course, students will be able to

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BC511.1	Students will have the knowledge on the fundamentals of biomolecules.	Remember
BC511.2	Students will be able to understand the principles biochemical interactions	Understand
BC 511.3	Students will be able to apply experimental skills to analyze metabolic disturbances	Apply
BC511.4	Students will analyze applications of biochemistry in human diseases	Analyse
BC511.5	Students will also be able to evaluate the basic aspects of biochemistry in metabolism	Evaluate
BC 511.6	Students will also develop specific skill based on their interest in designing protocols for protein, lipid and carbohydrate quantification	Create

KP
3/8/19

MODY UNIVERSITY
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School of Liberal Arts and Sciences

Course Outcomes

Course Name: Enzyme and Industrial Biochemistry

Course Code: BC 312

Year: 19-20

Semester: Spring

Faculty Name: Dr. K P Sharma

At the end of the course, students will be able to

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BC312.1	Describe methods for production, purification, characterization and immobilization of enzymes	Remember
BC312.2	Understand the fundamentals of enzyme properties, nomenclatures and characteristics	Understand
BC312.3	Apply biochemical calculation for enzyme kinetics	Apply
BC312.4	Illustrate various application of enzymes for human welfare	Analyse
BC312.5	Evaluate microbial approach for waste management	Evaluate
BC312.6	Develop methods for metal extractions, biofuel production with the help of microorganisms	Create

1/1/20

MODY UNIVERSITY
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School of Liberal Arts and Science

Course Outcomes

Course Name: General Biochemistry

Course Code: BC 111

Year: 1st

Semester: First

Faculty Name: Dr. K P Sharma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BC111.1	Students will have the knowledge of the chemical molecules of a cell	Remember
BC111.2	Students will be able to understand the interaction among the chemical molecules	Understand
BC111.3	Students will be able to methods to analyze carbohydrate, lipid and protein content	Apply
BC111.4	Students will analyse chemicals presence and their interaction with respect to diseases	Analyse
BC111.5	Students will also be able to evaluate the role of structure in functional aspects of foods	Evaluate
BC111.6	Students will also develop specific skill based on their interest in biochemical analysis in diseases conditions.	Create

kps

3/7/2019

MODY UNIVERSITY

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School of Liberal Arts and Science

Course Outcomes

Course Name: General Biochemistry Laboratory

Course Code: BC 121

Year: 1st

Semester: First

Faculty Name: Dr. K P Sharma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BC 121.1	Methods to determine carbohydrate protein and lipids in sample	Remember
BC 121.2	Basic principal to know the methodology	Understand
BC 121.3	Check whether a sample contains carbohydrate protein and lipids or not	Apply
BC 121.4	Compare how much carbohydrate protein and lipids is present	Analyse
BC 121.5	Learn how enzyme functions	Evaluate
BC 121.6	Develop method to determine carbohydrate protein and lipids in any sample	Create

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3/4/19

MODY UNIVERSITY
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Course Outcomes

Course Name: Microbial Genetics

Course Code: MB 631

Year: I

Semester: Spring

Faculty Name: Prof. Rajarshi Kumar Gaur

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
1	Describe the fundamental molecular principles of genetics	Understand
2	Explain the structure and function of DNA, RNA and protein	Apply
3	Explain the relationship between phenotype and genotype in human genetic traits	Understand
4	Describe the basics of genetic mapping	Evaluate
5	Evaluate the Structure and function of plasmids and transposons	Evaluate
6	Understand how gene expression is regulated	Apply

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25/2

MODY UNIVERSITY
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Course Outcomes

Course Name: Medical Microbiology

Course Code: MB 611

Year: 2019-2020

Semester: Autumn

Faculty Name: Dr. Rakesh Kumar Verma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MB611.1	Describe the normal micro-flora of the human body	Remember
MB611.2	Describe the infection process and strategies adopted by pathogens to evade immune system	Understand
MB611.3	Explain the pathogenesis, epidemiology of bacterial, fungal, viral and protozoan diseases	Understand
MB611.4	Describe the laboratory diagnosis and treatment methods for bacterial, fungal, viral and protozoan diseases	Understand
MB611.5	Assess treatment strategies including the appropriate use of antimicrobial agents and common mechanisms of antimicrobial action and resistance.	Evaluate
MB611.6	Recognize and diagnose common infectious diseases from the clinical presentation and associated microbiology.	Apply

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30/8/19

MODY UNIVERSITY
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School of Liberal Arts and Sciences

Course Outcomes

Course Name: Laboratory Course in Study of Microorganism

Course Code: MB 541

Year: 19-20

Semester: Autumn

Faculty Name: Dr. K P Sharma

At the end of the course, students will be able to

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MB 541.1	Sterilization, disinfection and safety in microbiological laboratory.	Remember
MB 541.2	Preparation of media for cultivation of bacteria.	Understand
MB 541.3	Isolation of bacteria in pure culture by streak plate method.	Apply
MB 541.4	Study of colony and growth characteristics of some common bacteria: Bacillus, E. coli, Staphylococcus, Streptococcus, etc.	Apply
MB 541.5	Preparation of bacterial smear and Gram's staining.	Understand
MB 541.6	Enumeration of bacteria: standard plate count.	Analyze

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Course Outcomes

Course Name: Immunology

Course Code: MB 532

Year: M.Sc. First

Semester: Spring

Faculty Name: Dr. Amrita Narula

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MB 532.1	Describe the concept of Immunology, its types and theories.	Understand
MB 532.2	Differentiate about the types of cells involved in immunity and their development.	Understand
MB 532.3	Explain the concept of antigens, their characteristics, development and structure and types of antibodies etc.	Understand
MB 532.4	Contrast various techniques of antigen-antibody interaction	Apply
MB 532.5	Explain the concept behind cell mediated immune response: MHC, TCR signaling etc.	Understand
MB 532.6	Discuss about various immunological diseases, concept of vaccines development.	Understand

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Course Outcomes

Course Name: General Microbiology

Course Code: MB 531

Year: 19-20

Semester: Autumn

Faculty Name: Dr. K P Sharma

At the end of the course, students will be able to

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MB531.1	Students will have the knowledge on the fundamentals of microroganims structure and functions.	Remember
MB531.2	Students will be able to understand the physiology of bacterial, fungal, viral and algal cell	Understand
MB531.3	Students will be able to apply knowledge of microbial physiology for food, industrial and environmental applications	Apply
MB531.4	Students will analyze the difference in working of bacterial, fungal, viral and algal cell	Analyse
MB531.5	Students will also be able to evaluate the potential of microbial cell for various applications	Evaluate
MB531.6	Students will also develop microbial consortium for food, industrial and environmental use	Create

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MODY UNIVERSITY
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Course Outcomes

Course Name: Microbial Physiology, Food Microbiology and Microbial Genetics Laboratory

Course Code: MB 524

Year: I

Semester: Spring

Faculty Name: Dr.Kanti Prakash Sharma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MB524.1	Students will have the knowledge on the techniques involved in determining biochemical changes during processing and preservation and preparations of nutraceuticals.	Remember
MB524.2	Students will be able to understand the basic principles of analytical techniques used in evaluating the biochemical properties of food.	Understand
MB524.3	Students will be able to apply modern tools and equipments to analyze food composition, identify microorganism responsible for food spoilage.	Apply
MB524.4	Students will analyse applications in food industry, food processing, conventional and advanced methods of food preservation, methods of packing, post-harvest practices, manipulation in microbial metabolism	Analyse
MB524.5	Students will also be able to evaluate the principles the current application of microbial physiology, genetic engineering towards human welfare	Evaluate
MB524.6	Students will also develop microbial method for food and environment and agriculture industry	Create

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12/1/20

MODY UNIVERSITY
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Course Outcomes

Course Name: Food Technology

Course Code: MB 514

Year: 19-20

Semester: Spring

Faculty Name: Dr. K P Sharma

At the end of the course, students will be able to

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MB514.1	Students will have the knowledge on the fundamentals biochemical changes during processing and preservation and preparations of nutraceuticals.	Remember
MB514.2	Students will be able to understand the principles behind analytical techniques used in evaluating the biochemical properties of food.	Understand
MB514.3	Students will be able to apply modern tools and equipments to analyze food composition, identify microorganism responsible for food spoilage.	Apply
MB514.4	Students will analyse applications in food industry, food processing, conventional and advanced methods of food preservation, methods of packing, post-harvest practices	Analyse
MB514.5	Students will also be able to evaluate the principles of Hazard Analysis and Critical Control Points (HACCP) to ensure safe food processing.	Evaluate
MB514.6	Students will also develop specific skill based on their interest in meat, poultry and fish processing, food fermentation, dairy processing.	Create

12/2/20

MODY UNIVERSITY
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School of Liberal Arts and Sciences

Course Outcomes

Course Name: Microbial Physiology and Metabolism

Course Code: MB 512

Year: M.Sc. First

Semester: Spring

Faculty Name: Dr. Amrita Narula

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MB 512.1	Describe the ways of transport mechanisms in microbes.	Understand
MB 512.2	Explain about various cycles involved in microbial respiratory metabolism.	Understand
MB 512.3	Interpret the detailed concept of microbial photosynthesis.	Understand
MB 512.4	Discuss various pathways of fixing carbon dioxide and photorespiration.	Analyze
MB 512.5	Describe about the nitrogen and lipid metabolism.	Understand
MB 512.6	Explain the concept of sporulation and dormancy.	Understand

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Course Outcomes

Course Name: Bacteriology and Phycology

Course Code: MB 511

Year: 19-20

Semester: Autumn

Faculty Name: Dr. K P Sharma

At the end of the course, students will be able to

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MB511.1	Students will have the knowledge on the fundamentals of bacterial and algal cell structure and physiology.	Remember
MB 511.2	Students will be able to understand the physiology of bacterial and algal cell	Understand
MB 511.3	Students will be able to apply knowledge of bacterial and algal physiology for food, industrial and environmental applications	Apply
MB 511.4	Students will analyze the difference in working of bacterial and algal cell	Analyse
MB 511.5	Students will also be able to evaluate the potential bacterial or algal cell for various applications	Evaluate
MB 511.6	Students will also develop bacterial consortium for food, industrial and environmental use	Create

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Course Outcomes

Course Name: Food and Nutrition Laboratory-II

Course Code: FN 651

Year: 19-20

Semester: Autumn

Faculty Name: Dr. K P Sharma

At the end of the course, students will be able to

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FN 651.1	To Determine Hunger Scale	Remember
FN 651.2	To Understand the functions of Modified Diet in Healthcare	Understand
FN 651.3	To monitor glucose tolerance test and diagnosis of Diabetes	Apply
FN 651.4	To study Public Health Nutrition Approach to manage nutritional Emergencies	Analyse
FN 651.5	To study promotion of healthy diet and Life style in Emergencey	Evaluate
FN 651.6	Planning and Preparation of Snacks for PEM	Create

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Course Outcomes

Course Name: Food Service Management

Course Code: FN 641

Year: 2019-20

Semester: Autumn

Faculty Name: Dr. Priya Sharma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FN641.1	Explain the different types of Food service Institutions	Understand
FN641.2	To study the theories about approaches to food service management	Remember
FN641.3	Discuss different types of principles and procedures of management	Understand
FN641.4	Explain the functions of personnel and material management in an organization	Understand
FN641.5	Analyze the financial management and its importance.	Analyze
FN641.6	To understand the changing food trends and marketing-influencing factors. Apply the principles and techniques of effective management.	Apply

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3/4/19

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Course Outcomes

Course Name: Institutional Food administration

Course Code: FN 621

Year: 19-20

Semester: Autumn

Faculty Name: Dr. K P Sharma

At the end of the course, students will be able to

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FN 621.1	Students will have the knowledge on the fundamentals of food business administraion	Remember
FN 621.2	Students will be able to understand the principles food business establishment	Understand
FN 621.3	Students will be able to apply market survey realted experimental skills for product sell	Apply
FN 621.4	Students will analyze results of market research for product or service establishment in food business	Analyse
FN 621.5	Students will also be able to evaluate the basic aspects of business administration in food industry	Evaluate
FN 621.6	Students will also develop product or service related to food industry	Create

27/8/19

MODY UNIVERSITY
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School of Libearal Arts and Sciences

Course Outcomes

Course Name: Food and Nutritional Laboratory I

Course Code: FN 562

Year: M. Sc FN Iyr

Semester: Spring

Faculty Name: Dr. Nisha

CO Number	**Course Outcome statement** At the completion of the course, student will be able to	**Taxonomy Level**
562.1	Recall the procedure of estimation of different nutrients	Remember
562.2	Comprehend the principle behind the estimations	Understand
562.3	Anaylse the content of nutrients or anti-nutrients present in food	Apply
562.4	The situation of women in different setup with special reference to their health and nutritional status	Evaluate
562.5	Prepare different food combination helpful in various diseased conditions and for fitness in sports persons	Create

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3/7/19

MODY UNIVERSITY
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School of Liberal Arts and Sciences

Course Outcomes

Course Name: Nutrition for Health and Fitness

Course Code: FN532

Year: M. Sc FN Iyr

Semester: Spring

Faculty Name: Dr. Nisha

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
532.1	Define the various components of health and fitness	Remember
532.2	Comprehend the role of nutrition, physical activity and exercise in well being of the individual	Understand
532.3	Calculate the effect of different nutragenic aids and doping in a sports person and for carbohydrate loading before the performance	Apply
532.4	Analyse the different energy systems of fuel and nutrients in action for endurance and power activity within a person	Analyse
532.5	Determine the nutritional status of a sports person before, after and during performance	Evaluate
532.6	Prepare diet charts during sports periodization	Create

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21/8/19

MODY UNIVERSITY
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School of Liberal Arts and Sciences

Course Outcomes

Course Name: Women Nutrition and Health

Course Code: FN522

Year: M. Sc FN Iyr

Semester: Spring

Faculty Name: Dr. Nisha

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
522.1	Recall the demographic status of women in India and around the globe	Remember
522.2	Comprehend the role of women in development and in community and understand their prevailing health, nutritional and living conditions	Understand
522.3	Empower the women in society by creating awareness among them	Apply
522.4	Analyse the situation of women in different setups	Analyse
522.5	Assess the nutritional and health status of women in normal and diseased conditions	Evaluate
522.6	Prepare an individualized diet chart for the well being of women in a community	Create

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12/1/20

MODY UNIVERSITY
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School of Libearal Arts and Sciences

Course Outcomes

Course Name: Food Packaging and Quality Control

Course Code: FN 512

Year: M.Sc. First

Semester: Spring

Faculty Name: Dr. Amrita Narula

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FN 512.1	Describe the basic concept behind packaging of products, types and material used.	Understand
FN 512.2	Explain and use various methods for packaging, handling and distribution of food products.	Understand
FN 512.3	Explain the role of labeling, aesthetics and graphic design in food packaging	Apply
FN 512.4	Describe and use the laws and regulations involved in packaging: SWAA, PFA etc.	Apply
FN 512.5	Discuss how quality assurance plan, records, product and purchase specifications should be made and describe the concept of HACCP.	Understand
FN 512.6	Interpret how to evaluation the product and describe consumer rights.	Apply

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12/3/20

MODY UNIVERSITY
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School of Liberal Arts and Sciences

Course Outcomes

Course Name: Basic Principle of Ayurvedic Diet

Course Code: FN 511

Year: 19-20

Semester: Autumn

Faculty Name: Dr. K P Sharma

At the end of the course, students will be able to

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FN511.1	Students will have the knowledge on the Traditional Indian foods.	Remember
FN 511.2	Students will be able to understand the principles Tri Dosha	Understand
FN 511.3	Students will be able to apply the Ayurvedic knowledge to analyze diseases	Apply
FN 511.4	Students will analyze applications of Ayurvedic Principles in human diseases	Analyse
FN 511.5	Students will also be able to evaluate the basic aspects Tri Dosha in human diseases	Evaluate
FN 511.6	Students will also develop specific skill to remain healthy in life time based on Ayurvedic principle of diet and therapy	Create

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30/8/19

MODY UNIVERSITY
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School of Liberal Arts/ School of Science

Course Outcomes

Course Name: Therapeutic Nutrition

Course Code: FN232

Year: III

Semester: Spring

Faculty Name: Dr. Kanti Prakash Sharma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FN232.1	Utilize knowledge from biological sciences as a basis for understanding the role of food and nutrients in health and disease processes	Remember
FN232.2	Provide nutrition counseling and education to individuals, groups, and communities	Understand
FN232.3	Perform food management functions in health-care industries	Apply
FN232.4	Analyse nutrition care in collaboration with other health-care providers	Analyse
FN232.5	Evlauate strategies for food access, procurement, preparation, and safety for individuals, families, and communities	Evaluate
FN232.6	Provide culturally competent nutrition services for individuals and communities	Create

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Course Outcomes

Course Name: Bioorganic Chemistry

Course Code: CH 621

Year: II

Semester: Autumn

Faculty Name: Dr. K P Sharma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH 621.1	Remember enzymes name, classification and nomenclatures	Remember
CH 621.2	Understand the fundamentals of enzyme properties, , characteristics and mechanisms	Understand
CH 621.3	Apply biochemical calculation for enzyme kinetics	Apply
CH 621.4	Analyze methods for production, purification, characterization and immobilization of enzymes	Analyse
CH 621.5	Evaluate various application of enzymes for human welfare	Evaluate
CH 621.6	Discover the current and future trends of applying enzyme technology for the commercialization purpose of biotechnological products.	Create

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30/8/19

MODY UNIVERSITY
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Course Outcomes

Course Name: Enzymology and Bioprocess Laboratory

Course Code: BT 613

Year: 19-20

Semester: Autumn

Faculty Name: Dr. K P Sharma

At the end of the course, students will be able to

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BT 613.1	Role of microbial enzymes in fermentation	Remember
BT 613.2	Understand the fundamentals of microbial enzymes properties, , characteristics and mechanisms	Understand
BT 613.3	Apply microorganism for fermentation	Apply
BT 613.4	Analyze methods for isolation and characterization of microrbes and enzymes and immobilization	Analyse
BT 613.5	Evaluate various application of microorganism or their enzymes industrial and environmental applications	Evaluate
BT 613.6	Create new microbial products or process	Create

30/8/19

MODY UNIVERSITY
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School of Liberal Arts and Sciences

Course Outcomes

Course Name: Zoology Lab - III

Course Code: ZO 222

Year: 2019-20

Semester: Autumn

Faculty Name: Dr. R.S. Chundawat

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
ZO 222.1	Analysis of blood group and hemoglobin level	Understand
ZO 222.2	Analysis of Total WBC count	Understand
ZO 222.3	Analysis of Total RBC count	Understand
ZO 222.4	Analysis of Blood pressure and pulse rate	Understand
ZO 222.5	Analysis of ESR value	Understand
ZO 222.6	Histological study of various organs and tissue.	Understand

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Course Outcomes

Course Name: Developmental Biology

Course Code: ZO 232

Year: 2019-20

Semester: Spring

Faculty Name: Dr. R.S. Chundawat

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
ZO 232.1	explain the anatomy of Male and Female Reproductive system	Understand
ZO 232.2	Determine the mechanism of Male and Female gametes.	Understand
ZO 232.3	explain the process of fertilization	Understand
ZO 232.4	Describe the process of cleavage and blastulation.	Understand
ZO 232.5	Define the process of gastrulation, nurulation, organogenesis.	Understand
ZO 232.6	Analysis of various Birth control mechanism and artificial insemination	Evaluate

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Course Outcomes

Course Name: Developmental Biology Lab

Course Code: ZO 242

Year: 2019-20

Semester: Spring

Faculty Name: Dr. R.S. Chundawat

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
ZO 312.1	Identify structural aspects of testis and ovary	Analyze
ZO 312.2	determine various types of eggs	Analyze
ZO 312.3	Define various developmental stages of chick	Understand
ZO 312.4	Determine various developmental stages of frog	Analyze
ZO 312.5	prepare slides for embryological studies	Create
ZO 312.6	Learn to open egg and observe live developmental stages.	Create

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13/12/19

MODY UNIVERSITY
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School of Liberal Arts and Sciences

Course Outcomes

Course Name: Ecology and Economic Biology

Course Code: ZO 311

Year: Academic Year: 2019-20

Semester: Autumn

Faculty Name: Dr. Harish Kumar Dhingra

At the end of the course, students will be able to

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
ZO 311.1	Learn the concept of Ecological factors, Soil-origin, formation, composition, Shelford's Law	Understand
ZO 311.2	Learn the ethnic groups or tribals of India and Plants used by the tribals	Understand
ZO 311.3	Learn about ecological pyramid, Biogeochemical cycling- carbon, nitrogen and phosphorous cycle	Understand
ZO 311.4	Apply the knowledge for the Application of natural products to certain diseases	Apply
ZO 311.5	Learn the Role of ethnobotany in modern medicine	Understand
ZO 311.6	Learn of Significance, habitat and morphology of the different plants in ethnobotany	Understand

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Course Outcomes

Course Name: Ethology and Evolution

Course Code: ZO 312

Year: 2019-20

Semester: Spring

Faculty Name: Dr. R.S. Chundawat

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
ZO 312.1	Explain the concept of Animal Behaviour.	Understand
ZO 312.2	identify the role of stimuli.	Remember
ZO 312.3	Explain different Aspect of social life, parental care, biological clock	Understand
ZO 312.4	Define the theories of evolution	Understand
ZO 312.5	Define the mechanism of evolution	Understand
ZO 312.6	explain geological time scales and evolution of man	Understand

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Course Outcomes

Course Name: Ecology, Ethology and Evolution Laboratory

Course Code: ZO 332

Year: 2019-20

Semester: Spring

Faculty Name: Dr. R.S. Chundawat

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
ZO 332.1	Determine the process of water and soil testing.	Analyze
ZO 332.2	Analyze the role of fossils in evolution	Analyze
ZO 332.3	Determine different aspect of social life, parental care.	Analyze
ZO 332.4	define the role of stimuli in behavior	Understand
ZO 332.5	Differentiate the analogous and homologues structures	Analyze
ZO 332.6	Explain the methods to study population ecology	Understand

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Course Outcomes

Course Name: Animal Physiology

Course Code: ZO 212

Year: 2019-20

Semester: Autumn

Faculty Name: Dr. R.S. Chundawat

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
ZO 212.1	Explain the anatomy and physiology of Digestive and circulatory systems	Evaluate
ZO 212.2	Explain the anatomy and physiology of Nervous and Excretory systems	Evaluate
ZO 212.3	Explain the anatomy and physiology of Muscle and Heart	Evaluate
ZO 212.4	Explain the anatomy and physiology of Excretory system and blood pressure	Evaluate
ZO 212.5	Explain the endocrine system and mechanism of hormone action	Evaluate
ZO 212.6	Explain the anatomy and mechanism of respiratory system.	Evaluate

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Course Outcomes

Course Name: Animal Diversity Lab – II

Course Code: ZO 142

Year: 2019-20

Semester: Spring

Faculty Name: Dr. R.S. Chundawat

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
ZO 312.1	Identify structural aspects of Bones	Analyze
ZO 312.2	Identify comparative anatomy of chordates	Analyze
ZO 312.3	Identify habit and habitat of chordates	Analyze
ZO 312.4	Determine comparative aspects of arterial system	Understand
ZO 312.5	Identify comparative aspects of nervous system	Analyze
ZO 312.6	Prepare slides of chordate material	Create

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13/1/20

MODY UNIVERSITY
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School of Liberal Arts and Sciences

Course Outcomes

Course Name: **Animal Diversity-II**

Course Code: ZO 132

Year: 2019-20

Semester: Spring

Faculty Name: Dr. R.S. Chundawat

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
ZO 132.1	define the meaning of Chordata.	Understand
ZO 132.2	explain the mechanism of systems	Understand
ZO 132.3	develop the understanding of Evolution of systems.	Create
ZO 132.4	develop the understanding of Accessory Respiratory and poison apparatus	Create
ZO 132.5	define the aspect of parental care	Create
ZO 132.6	explain the process of Human evolution.	Understand

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Course Outcomes

Course Name: Zoology Lab - I

Course Code: ZO 121

Year: 2019-20

Semester: Autumn

Faculty Name: Dr. R.S. Chundawat

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
ZO 121.1	Explain different Specimens of Invertebrate.	Understand
ZO 121.2	Explain Connecting links	Understand
ZO 121.3	Preparation of permanent slide of given materials	Understand
ZO 121.4	Study of nervous systems	Understand
ZO 121.5	Study of Circulatory systems	Understand
ZO 121.6	Study of digestive systems	Understand

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Course Outcomes

Course Name: **Animal Diversity-I**

Course Code: ZO 111

Year: 2019-20

Semester: Autumn

Faculty Name: Dr. R.S. Chundawat

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
ZO 111.1	define the meaning of Invertebrate.	Understand
ZO 111.2	explain the mechanism of systems	Understand
ZO 111.3	develop the understanding of Invertebrate systems.	Create
ZO 111.4	develop the understanding of Water canal system and water vascular system	Create
ZO 111.5	define the aspect of Larval forms and mouth parts in insects	Create
ZO 111.6	explain the concept of parasitism and adaptations.	Understand

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School of Liberal Arts and Science

Course Outcomes

Course Name: Medical microbiology laboratory

Course Code: MB 361

Year: 2019-2020

Semester: Autumn

Faculty Name: Dr. Amrita Narula

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MB361.1	Select the microbes from soil, water, skin, mouth cavity and other sources	Analyze
MB361.2	Calculate the TDS and pH of water and soil sample	Apply
MB361.3	Analyze the Antibiotic sensitivity and resistance activity of bacteria	Analyze
MB361.4	Compare the MIC of given antibiotic (streptomycin) by observing its effect on bacterial culture	Evaluate
MB361.5	Determine the flora of human blood sample and determining its morphological characteristics	Apply
MB361.6	Evaluate the flora of skin and determining its morphological characteristics	Evaluate

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MODY UNIVERSITY
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School of Liberal Arts and Science

Course Outcomes

Course Name: Medical Microbiology

Course Code: MB 351

Year: 2019-2020

Semester: Autumn

Faculty Name: Dr. Amrita Narula

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MB351.1	Describe the normal micro-flora of the human body	Remember
MB351.2	Describe the infection process and strategies adopted by pathogens to evade immune system	Understand
MB351.3	Explain the pathogenesis, epidemiology of bacterial, fungal, viral and protozoan diseases	Understand
MB351.4	Describe the laboratory diagnosis and treatment methods for bacterial, fungal, viral and protozoan diseases	Understand
MB351.5	Assess treatment strategies including the appropriate use of antimicrobial agents and common mechanisms of antimicrobial action and resistance.	Evaluate
MB351.6	Recognize and diagnose common infectious diseases from the clinical presentation and associated microbiology.	Apply

Signature of the faculty

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School of Liberal Arts and Sciences

Course Outcomes

Course Name: General Microbiology Laboratory

Course Code: MB 341

Year: 19-20

Semester: Spring

Faculty Name: Dr. Amrita Narula

At the end of the course, students will be able to

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MB341.1	Remember microbiological nutrient medium name and components for microbe cultivation	Remember
MB341.2	Understand the role of nutrient medium components and technique of aseptic cultivation	Understand
MB341.3	Apply isolation methods to isolate novel and innovative micoroganims	Apply
MB341.4	Analyze the difference in medium components for microbial cultivation	Analyse
MB341.5	Evaluate the effect of environmental parameters on microbial growth	Evaluate
MB341.6	Create new methods of microbial use for agriculture, health and industrial sectors	Create

5/2/20

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Course Outcomes

Course Name: Microbiology

Course Code: MB 331

Year: 19-20

Semester: Spring

Faculty Name: Dr Amrita Narula

At the end of the course, students will be able to

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MB331.1	Remember the work and contribution of microbiologist	Remember
MB331.2	Understand the fundamentals of microorganism growth and physiology and method of studying the microorganism	Understand
MB331.3	Apply principles of microbial physiology for various application in environment, agricultural and health sector	Apply
MB331.4	Analyze microbial growth in diverse environment	Analyse
MB331.5	Evaluate the potential of microbes in Antibiotic, Bio-fertilizer/Pesticides	Evaluate
MB331.6	Develop Bio-fertilizer and Bio-pesticides	Create

5/2/20

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Course Outcomes

Course Name: **Immunology Laboratory**

Course Code: **MB 321**

Year: Spring 2019-20

Semester: Spring

Faculty Name:

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MB 321.1	Identify structural aspects of Lymph nodes	Analyze
MB 321.2	Identify tissues related to immune system	Analyze
MB 321.3	Identify presence of antigen with help of antibody	Analyze
MB 321.4	Determine antigenicity of compound	Understand
MB 321.5	ELISA	Analyze
MB 321.6	Prepare slides tissue to location presence of antigen	Create

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Course Outcomes

Course Name: **Immunology**

Course Code: MB 232

Year: Spring 2019-20

Semester: Spring

Faculty Name:

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MB 232.1	define the meaning of Immunology.	Understand
MB 232.2	explain the mechanism of Immune system	Understand
MB 232.3	develop the understanding of Immune system.	Create
MB 232.4	develop the understanding of antigen, antibody and epitopes	Create
MB 232.5	define the aspect of cell signaling in Immune system	Create
MB 232.6	explain the process of monoclonal antibody generation.	Understand

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Course Outcomes

Course Name: Basics of Human Physiology

Course Code: FN 521

Year: 2019-20

Semester: Autumn

Faculty Name: Dr. R.S. Chundawat

CO Number	**Course Outcome statement** At the completion of the course, student will be able to	**Taxonomy Level**
FN 521.1	Basic understanding of Cell, cell organelle and tissue	Analyze
FN 521.2	Explain the anatomy and physiology of endocrine, Digestive and circulatory systems	Analyze
FN 521.3	Explain the anatomy and physiology of Nervous and Excretory systems	Analyze
FN 521.4	Explain the anatomy and physiology of Muscle and Heart	Analyze
FN 521.5	Explain the anatomy and physiology of Reproductive and Excretory systems	Analyze
FN 521.6	Understanding the problems related to physiological disturbance	Understand

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Course Outcomes

Course Name: Dietetics

Course Code: FN 312

Year: 2019-20

Semester: Spring

Faculty Name: Dr. Priya Sharma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FN312.1	Understand the scope of dietetics and the role of dietitian in health care	Understand
FN312.2	To study the principles of dietary modification and apply in planning.	Apply
FN312.3	To develop practical skills in planning and management of diets	Create
FN312.4	To understand nutrition-related diseases of the: gut, liver, gallbladder, pancreas, renal and heart.	Understand
FN312.5	To know the etiology, incidence, nature, clinical symptoms, diagnosis, and medical and dietary management of disease.	Remember
FN312.6	To modify the diet plans to suit the disease condition	Apply

Signature of the faculty

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School of Liberal Arts and Sciences

Course Outcomes

Course Name: Maternal and Child Nutrition

Course Code: FN 311

Year: 2019-20

Semester: Autumn

Faculty Name: Dr. Priya Sharma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FN311.1	Study about the nutritional needs during pregnancy and lactation	Remember
FN311.2	Determine the determinants of birth weight and consequences of low birth weight	Apply
FN311.3	Understand Breastfeeding biology, breastfeeding support and counselling	Understand
FN311.4	Explain the guidelines for infant and young child feeding	Understand
FN311.5	Learn assessment and management of moderate and severe malnutrition among children	Apply
FN311.6	Overview maternal and child health care policies and programs.	Understand

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Course Outcomes

Course Name: Food Chemistry

Course Code: FN222

Year: B. Sc FN IIyr

Semester: Spring

Faculty Name: Dr. Nisha

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
222.1	Describe the structure and physical and chemical properties of macronutrients and different food systems	Remember
222.2	Comprehend the chemistry of macronutrients	Understand
222.3	Prepare different food models	Apply
222.4	Analyse the interactions among different macromolecules in different combinations	Analyse
222.5	Assess the different food pigments, dietary fibre and additives present in food and its effect on human health	Evaluate
222.6	Formulate different food combinations	Create

Signature of the faculty

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Course Outcomes

Course Name: Food Science Laboratory

Course Code: FN122

Year: First

Semester: II

Faculty Name: Dr. Sunita

PO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FN222 .1	To become familiar with the endogenous and exogenous organisms found in the food	Understand
FN222 .2	Test for carbohydrate, Test for ketoses sugar in food samples	Analyse
FN222 .3	Estimation of Chlorophyll "a", "b", Total in given different plantleaves samples, Total phenol content in various flowers & vegetables	Evaluate
FN222 .4	Qualitative test for presence of Amino acid in a given test sample	Evaluate
FN222 .5	Determination of saponification value, acid value of fat/Oil	Analyse
FN222 .6	To test the effectiveness of blanching method by peroxidase enzyme inactivation	Create

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School of Liberal Arts and Sciences

Course Outcomes

Course Name: **Food Science**

Course Code: FN112

Year: First year

Semester: II

Faculty Name: Dr. Sunita

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FN112.1	Classify and distinguish between the types of cereals, nutritional value, fortification and various recipes to be applied for planning of a diet.	Apply
FN112.2	Classification and nutritional quality analysis of vegetables and fruits as well as the types of changes occurring during various stages, methods used for storage of the fruits.	Understand
FN112.3	Different types of milk products, composition, nutritive value; Egg, meat qualities, home preservation and storage; fleshy foods, effect of cooking on the same.	Understand
FN112.4	Type of Fish: nutritive value, various precautions required for cooking up the recipes; effect on texture and flavor.	Analyze
FN112.5	Types of Fats and Oil: composition and nutritive value, rancidity, smoking temperature etc. Spices and condiments: types and uses in Indian Cookery.	Understand
FN112.6	Qualities of beverages: Coffee, tea, cocoa milk, fruit juices- in terms of nutritive value and classification.	Understand

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Course Outcomes

Course Name: Cell Biology

Course Code: BT 151

Year: 2019-20

Semester: Autumn

Faculty Name: Dr. R.S. Chundawat

CO Number	**Course Outcome statement** At the completion of the course, student will be able to	**Taxonomy Level**
BT 151.1	To understand the concept of cell and cell theory	Understand
BT 151.2	Understand the structure of cell membrane and its functions	Understand
BT 151.3	Understand the structure of GERL system and its functions	Understand
BT 151.4	Understand the structure of mitochondria and its functions	Understand
BT 151.5	Understand the structure of Nucleus and its functions	Understand
BT 151.6	Understand the Cell division process and cell cycle	Understand

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Course Outcomes

Course Name: Genetic

Course Code: BT 152

Year: 2019-20

Semester: Spring

Faculty Name:

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BT 152.1	Understand different inheritance laws.	Understand
BT 152.2	Understand sex determination in organisms	Understand
BT 152.3	Understand sex linked inheritance in organisms	Understand
BT 152.4	Understand Extra Chromosomal inheritance patterns	Understand
BT 152.5	Understand human genetics	Understand
BT 152.6	Understand genetics aspects at population level	Understand

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Course Outcomes

Course Name: Cell Biology Lab

Course Code: BT 161

Year: 2019-20

Semester: Autumn

Faculty Name: Dr. R.S. Chundawat

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BT 161.1	Identify structural aspects of Cell	Understand
BT 161.2	Identify Presence of antigen on plasma membrane	Understand
BT 161.3	Identify various type of cells	Understand
BT 161.4	Learning the process of slide preparation of tissue	Learning
BT 161.5	Understanding the aspect of microscopy	Understand
BT 161.6	Understanding and Preparation of slides for learning cell division.	Understand

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Course Outcomes

Course Name: Commonwealth Literature-II

Course Code: EL 682

Year: 2019-20

Semester: Spring

Faculty Name: Prof. A.S.Rao

Course Outcomes (CO)

EL682.1		Analyze
EL682.2	Discuss different varieties of satire and the novel, and explain how these modes influenced the development of the English literary tradition.	Understand
EL682.3	Read and explicate difficult texts.	Apply
EL682.4	Provide detailed rhetorical analysis of different texts.	Remember
EL682.5	Construct clear, well-substantiated, and thoughtful written arguments.	Evaluate
EL682.6	Generate a viewpoint to a range of genres i.e. poetry and the novel.	Create

7.6.20

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School of Liberal Arts and Sciences

Course Outcomes

Course Name: Commonwealth Literature-I

Course Code: EL 681

Year: Second

Semester: Third (Autumn)

Faculty Name: Dr. Ashok Singh Rao

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
EL681.1	Develop knowledge of and ability to analyse the key texts and concepts of this period of literary history	Create
EL681.2	Define 'Romanticism'	Remember
EL681.3	List key writers and works of Romanticism	Apply
EL681.4	Compare and contrast characteristics of Romantic poetry to Romantic literature.	Analyze
EL681.5	Assess the historical and social events of the Romantic Period.	Evaluate
EL681.6	Relate the poem to the real life and compose poetry.	Understand

11/11/2019

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Course Outcomes

Course Name: Principles of Criticism-II

Course Code: EL 662

Year: 2018-19

Semester: Spring

Faculty Name: Dr A S Rao

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
EL662.1	Explain the meaning, elements, and characteristics of literature.	Understand
EL662.2	Develop skills in understanding literary piece.	Create
EL662.3	Classify the techniques of early literary criticisms and their principles.	Analyze
EL662.4	Justify the appropriateness of various theories and theorists.	Evaluate
EL662.5	Function effectively as an individual, and as a member or leader in diverse teams and in multidisciplinary settings.	Apply
EL662.6	Describe literature and its forms, Literary standards, Literary approaches, Importance of literature.	Remember

Signature of the faculty 7.12.20

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Course Outcomes

Course Name: Eleventh Century to Twelve Century English Literature-II

Course Code: EL 582

Year: 2019-20

Semester: Spring

Faculty Name: Prof. A.S.Rao

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
EL582.1	Discuss different varieties of satire and the novel,	Discuss
EL582.2	Explain how these modes influenced the development of the English literary tradition.	Understand
EL582.3	Read and explicate difficult texts.	Apply
EL582.4	Provide detailed rhetorical analysis of different texts.	Remember
EL582.5	Construct clear, well-substantiated, and thoughtful written arguments.	Evaluate
EL582.6	Generate a viewpoint to a range of genres i.e. poetry and the novel.	Create

7.2.20

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Course Outcomes

Course Name: 18th Century to 20th English Literature-I

Course Code: EL 571

Year: First

Semester: Autumn 2019-20

Faculty Name: Dr. Ashok Singh Rao

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
EL571.1	Recognize poetry from a variety of cultures, languages and historic periods.	Evaluate
EL571.2	Identify personal experiences that can be used when writing poems	Remember
EL571.3	Analyze the various elements of poetry, such as diction, tone, form, genre, imagery, figures of speech, symbolism, theme, etc.	Analyze
EL571.4	Develop their critical thinking skills.	Create
EL571.5	Describe their vocabularies and to develop an appreciation of language and its connotations and denotations.	Understand
EL571.6	Examine the rhythms, metrics and other musical aspects of poetry.	Apply

1.11.19

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Course Outcomes

Course Name: English Literature: Pre- romantics & Romantics- I

Course Code: EL 351

Year: Third

Semester: Autumn

Faculty Name: Dr. Ashok Singh Rao

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
EL351.1	Develop knowledge of and ability to analyse the key texts and concepts of this period of literary history	Create
EL351.2	Define 'Romanticism'	Remember
EL351.3	List key writers and works of Romanticism	Apply
EL351.4	Compare and contrast characteristics of Romantic poetry to Romantic literature.	Analyze
EL351.5	Assess the historical and social events of the Romantic Period.	Evaluate
EL351.6	Relate the novel to the real life and understand various psyches.	Understand

1.11.19

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Course Outcomes

Course Name: English Literature : Pre Romantics & Romantics-II

Course Code: EL 342

Year: 2019-20

Semester: Spring

Faculty Name: Prof. A.S.Rao

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
EL342.1	Develop knowledge of and ability to analyse the key texts and concepts of this period of literary history	Create
EL342.2	Define 'Romanticism'	Remember
EL342.3	List key writers and works of Romanticism	Apply
EL342.4	Compare and contrast characteristics of Romantic poetry to Romantic literature.	Analyze
EL342.5	Assess the historical and social events of the Romantic Period.	Evaluate
EL342.6	Relate the poem to the real life and compose poetry.	Understand

7.6.20

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Course Outcomes

Course Name: English Literature : Pre and Post Elizabethans

Course Code: EL 341

Year: Third

Semester: Autumn

Faculty Name: Dr. Ashok Singh Rao

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
EL341.1	Develop knowledge of and ability to analyse the key texts and concepts of this period of literary history	Create
EL341.2	Define 'Romanticism'	Remember
EL341.3	List key writers and works of Romanticism	Apply
EL341.4	Compare and contrast characteristics of Romantic poetry to Romantic literature.	Analyze
EL341.5	Assess the historical and social events of the Romantic Period.	Evaluate
EL341.6	Relate the poem to the real life and compose poetry.	Understand

7.11.2019

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Course Outcomes

Course Name: Foundation Course in English

Course Code: EL 101

Year: I

Semester: I (Autumn)

Faculty Name: Dr. Sunita Verma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
EL 101.1	Gain confidence in communicating in English in a variety of everyday situations.	Apply
EL 101.2	Enable the learner to use productive grammar and functions in daily use	Understand
EL 101.3	Aid in Listening, reading and speaking for daily communication, discussions and presentations	Apply
EL 101.4	Help in writing skills for well-structured sentences	Apply
EL 101. 5	Develop Speaking fluency and accuracy	Apply
EL 101. 6	Develop active vocabulary for a wide variety of themes	Create

Signature of the faculty 1.11.19

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Course Outcomes

Course Name: English Poetry-I

Course Code: EL111

Year: First

Semester: Autumn

Faculty Name: Dr. Ashok Singh Rao

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
EL111.1	Recognize poetry from a variety of cultures, languages and historic periods.	Evaluate
EL111.2	Identify personal experiences that can be used when writing poems	Remember
EL111.3	Analyze the various elements of poetry, such as diction, tone, form, genre, imagery, figures of speech, symbolism, theme, etc.	Analyze
EL111.4	Develop their critical thinking skills.	Create
EL111.5	Describe their vocabularies and to develop an appreciation of language and its connotations and denotations.	Understand
EL111.6	Examine the rhythms, metrics and other musical aspects of poetry.	Apply

1.11.19

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Course Outcomes

Course Name: English Poetry-II

Course Code: EL 112

Year: 2019-20

Semester: Spring

Faculty Name: Dr. A.S.Rao

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
EL112.1	Recognize poetry from a variety of cultures, languages and historic periods.	Evaluate
EL112.2	Identify personal experiences that can be used when writing poems	Remember
EL112.3	Analyze the various elements of poetry, such as diction, tone, form, genre, imagery, figures of speech, symbolism, theme, etc.	Analyze
EL112.4	Develop their critical thinking skills.	Create
EL112.5	Describe their vocabularies and to develop an appreciation of language and its connotations and denotations.	Understand
EL112.6	Examine the rhythms, metrics and other musical aspects of poetry.	Apply

7.2.20

MODY UNIVERSITY
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School of Liberal Arts & Sciences

Course Name: Media Lab

Course Code: JM 322

Year: 2019-20

Semester: Spring

Faculty Name: Rajeev Kumar Singh

CO Number	**Course Outcome statement** At the completion of the course, student will be able to	**Taxonomy Level**
JM 322.1	Interpret the basics of any relevant current issues	Understand
JM 322.2	Use the skill for research on any specific topic	Apply
JM 322.3	Classify the different aspect of chosen subjects or topic	Analyse
JM 322.4	Develop the programme format as per their research	Create
JM 322.5	Create & record the programme or penal discussion	Create
JM 322.6	Integrate all the technical aspect and produce master programme	Create

Signature of the faculty 7/2/20

MODY UNIVERSITY
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School of Liberal Arts & Sciences

Course Outcomes

Course Name: Introduction to Communication & Media

Course Code: JM 111

Year: 2019-20

Semester: Autumn

Faculty Name: Rajeev Kumar Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
JM 111.1	Identify different types of communication	Remember
JM 111.2	Explain history of media	Understand
JM 111.3	Differentiate communication types	Understand
JM 111.4	Summaries development of electronic media	Understand
JM 111.5	Describe Mass media	Understand
JM 111.6	Describe mass media in different culture & development	Remember

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Course Outcomes

Course Name: Theory of Communication

Course Code: JM 112

Year: 2019-20

Semester: Spring

Faculty Name: Rajeev Kumar Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
JM 112.1	Discuss the different facets of human communication	Understand
JM 112.2	Assess the kye theoretical approaches of communication	Evaluate
JM 112.3	Examine the use of theory in different form of communication	Apply
JM 112.4	Interpret use of communication theory in interdisciplinary field	Understand
JM 112.5	Classify the evolution of communication models & theory	Analyse
JM 112.6	Formulate any theory in a given situation	Create

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Course Outcomes

Course Name: Introduction to Journalism

Course Code: JM 121

Year: 2019-20

Semester: Autumn

Faculty Name: Rajeev Kumar Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
JM 121.1	Define news & its meaning	Remember
JM 121.2	Interpret different types of news writing	Remember
JM 121.3	Demonstrate writing for newspaper & magazine	Apply
JM 121.4	Identify the technique of reporting	Remember
JM 121.5	Discuss different types of Reporting	Understand
JM 121.6	Explain the role of editing & editor	Understand

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Course Outcomes

Course Name: Writing For Media

Course Code: JM 122

Year: 2019-20

Semester: Spring

Faculty Name: Rajeev Kumar Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
JM 122.1	Differentiate the stories of mass media	Understand
JM 122.2	Demonstrate the skill of write soft & hard stories	Apply
JM 122.3	Measure the appropriate source & background material of any story	Evaluate
JM 122.4	Develop feature story and opinion	Create
JM 122.5	Demonstrate the skill of writing for electronic media	Apply
JM 122.6	Compose a capsule of mix stories for electronic media	Create

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MODY UNIVERSITY
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Course Outcomes

Course Name: Writing For Media - I

Course Code: JM 131

Year: 2019-20

Semester: Autumn

Faculty Name: Rajeev Kumar Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
JM 131.1	Discuss different type of writing.	Understand
JM 131.2	Explain the different types of news writing.	Understand
JM 131.3	Describe the elements of writing.	Remember
JM 131.4	Demonstrate the writing skill for electronic media.	Apply
JM 131.5	Apply the writing skill in electronic media.	Apply
JM 131.6	Summaries the technique of interviews.	Understand

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Course Outcomes

Course Name: Practical – Reporting & Editing

Course Code: JM 132

Year: 2019-20

Semester: Spring

Faculty Name: Rajeev Kumar Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
JM 132.1	Describe the basics of reporting	Remember
JM 132.2	Differentiate the beats of reporting	Understand
JM 132.3	Demonstrate the techniques of reporting	Apply
JM 132.4	Illustrate the techniques of writing different stories	Analyse
JM 132.5	Develop the questionnaire for interview	Create
JM 132.6	Compose the editing work with different editing symbols	Create

16/1/20

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Course Outcomes

Course Name: Project & Presentation for Print

Course Code: JM 141

Year: 2019-20

Semester: Autumn

Faculty Name: Rajeev Kumar Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
JM 141.1	Identify the different current issues.	Remember
JM 141.2	Recall all important news trending in media.	Remember
JM 141.3	Categories different issues in news.	Analyze
JM 141.4	Design report on current issues	Create
JM 141.5	Asses all the aspect of current topics.	Evaluate
JM 141.6	Develop power point presentation on given topic.	Create

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Course Outcomes

Course Name: News & Contemporary Issues - II

Course Code: JM 142

Year: 2019-20

Semester: Spring

Faculty Name: Rajeev Kumar Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
JM 142.1	Identify the different types of news.	Remember
JM 142.2	Recall all important bill & amendment passed by parliament.	Remember
JM 142.3	Explain international political scenario.	Understand
JM 142.4	Discuss economic news.	Understand
JM 142.5	Define important world body like UN, BRICS, EU, SAARC.	Remember
JM 142.6	Demonstrate the skill of discussion on current affairs topics.	Apply

Signature of the faculty 1/8/20

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Course Outcomes

Course Name: News & Contempory Issues - I

Course Code: JM 151

Year: 2019-20

Semester: Autumn

Faculty Name: Rajeev Kumar Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
JM 151.1	Identify the different types of news.	Remember
JM 151.2	Recall all important bill & amendment passed by parliament.	Remember
JM 151.3	Explain international political scenario.	Understand
JM 151.4	Discuss economic news.	Understand
JM 151.5	Define important world body like UN, BRICS, EU, SAARC.	Remember
JM 151.6	Demonstrate the skill of discussion on current affairs topics.	Apply

Signature of the faculty

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Course Outcomes

Course Name: Basics of Design & Graphics

Course Code: JM 152

Year: 2019-20

Semester: Spring

Faculty Name: Rajeev Kumar Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
JM 152.1	Define the principle of graphic designing	Remember
JM 152.2	Categorize the various element of design in graphics	Apply
JM 152.3	Develop the sense of designing aesthetics	Create
JM 152.4	Use different texture in graphic design	Apply
JM 152.5	Design news paper and magazines	Create
JM 152.6	Describe the various form of graphics	Understand

11/12/20

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School of Liberal Arts & Sciences

Course Outcomes

Course Name: Computer Application for Mass Media

Course Code: JM 161

Year: 2019-20

Semester: Autumn

Faculty Name: Rajeev Kumar Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
JM 161.1	Interpret the operating system and start applications	Understand
JM 161.2	Describe basic functions of file management.	Understand
JM 161.3	Differentiate basic functions of word processor & spreadsheet	Understand
JM 161.4	Use the print settings and print documents	Apply
JM 161.5	Design poster, card, brochures.	Create
JM 161.6	Design newspaper page & magazine.	Create

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Course Outcomes

Course Name: Practical- Design and Graphics Lab

Course Code: JM 162

Year: 2019-20

Semester: Spring

Faculty Name: Rajeev Kumar Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
JM 162.1	Develop the layout of newspaper	Create
JM 162.2	Show their creative thinking in design	Apply
JM 162.3	Design the logo, poster and brochure	Create
JM 162.4	Design the newspaper and magazines	Create
JM 162.5	Modify the photograph and graphics	Apply
JM 162.6	Illustrate the advertisement and visual communication	Apply

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Course Outcomes

Course Name: Reporting & Editing

Course Code: JM 211

Year: 2019-20

Semester: Autumn

Faculty Name: Rajeev Kumar Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
JM 211.1	List down the Reporting Skill	Remember
JM 211.2	Identify news for different medium	Remember
JM 211.3	Interpret the techniques of writing.	Understand
JM 211.4	Describe the duty of reporters.	Understand
JM 211.5	Differentiate the aspects of reporting.	Understand
JM 211.6	Use the editing tools & symbols.	Apply

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MODY UNIVERSITY
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Course Outcomes

Course Name: Introduction to TV Journalism & Production

Course Code: JM 212

Year: 2019-20

Semester: Spring

Faculty Name: Rajeev Kumar Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
JM 212.1	Describe about the development & concepts of documentaries & TV programs	Understand
JM 212.2	Demonstrate scripting, directing, camera, editing & programming	Apply
JM 212.3	Interpret basic concepts & terminology specific to TV media.	Understand
JM 212.4	Formulate knowledge of TV production	Create
JM 212.5	Develop the skill of producing fiction and non-fiction programmes	Create
JM 212.6	Discuss the impact of audio-visual media on masses	Understand

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Course Outcomes

Course Name: Media Laws & Ethics

Course Code: JM 221

Year: 2019-20

Semester: Autumn

Faculty Name: Rajeev Kumar Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
JM 221.1	Describe the fundamentals of Indian constitution.	Remember
JM 221.2	Explain the role of press in democratic system.	Understand
JM 221.3	Explain the ethics of media.	Understand
JM 221.4	List down the different acts & rules of media	Remember
JM 221.5	Interpret the laws & restriction on media	Understand
JM 221.6	Discuss the rights of journalists.	Understand

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Course Outcomes

Course Name: Photo Journalism

Course Code: JM 222

Year: 2019-20

Semester: Spring

Faculty Name: Rajeev Kumar Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
JM 222.1	Describe the parts of digital camera	Remember
JM 222.2	Identify the different types of photography,	Remember
JM 222.3	Discuss the composition of Photography	Understand
JM 222.4	Determine the types of lighting in photography.	Apply
JM 222.5	Explain the role of picture in news.	Understand
JM 222.6	Use of picture & caption in news.	Apply

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Course Outcomes

Course Name: Practical of Reporting & Editing

Course Code: JM 231

Year: 2019-20

Semester: Autumn

Faculty Name: Rajeev Kumar Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
JM 231.1	Differentiate the reporting beats.	Understand
JM 231.2	Discuss the techniques of interview.	Understand
JM 231.3	Use the basics of news writing.	Apply
JM 231.4	Demonstrate the writing skills for different beats.	Apply
JM 231.5	Create headlines and design for newspaper.	Create
JM 231.6	Assess the different opinion on current topics.	Evaluate

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Course Outcomes

Course Name: Practical of Camera & Light

Course Code: JM 232

Year: 2019-20

Semester: Spring

Faculty Name: Rajeev Kumar Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
JM 232.1	Differentiate the aspects of light	Understand
JM 232.2	Describe the technicalities of Camera	Understand
JM 232.3	Use the effect of light	Apply
JM 232.4	Assess the combination of light and camera	Evaluate
JM 232.5	Generate the creative photographs	Create
JM 232.6	Develop the effect with light and camera	Create

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Course Outcomes

Course Name: Introduction to Broadcast Media

Course Code: JM 241

Year: 2019-20

Semester: Autumn

Faculty Name: Rajeev Kumar Singh`

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
JM 241.1	Describe sound as a medium.	Remember
JM 241.2	Differentiate the techniques & characteristics of sounds	Understand
JM 241.3	Discuss the different aspects of visual medium.	Understand
JM 241.4	Operate the camera & its movement.	Apply
JM 241.5	Differentiate the aspects of TV production.	Understand
JM 241.6	Demonstrate the editing techniques on software.	Apply

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Course Outcomes

Course Name: Practical Photography

Course Code: JM 242

Year: 2019-20

Semester: Spring

Faculty Name: Rajeev Kumar Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
JM 242.1	Describe the basics & techniques of Camera operation& photography	Understand
JM 242.2	Use of photojournalism in various platforms of media & communication	Apply
JM 242.3	Generate work as free-lance photojournalist	Create
JM 242.4	Categorize the different section of photography	Analyse
JM 242.5	Justify the different type of story	Evaluate
JM 242.6	Create own portfolio with some out of box photography	Create

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Course Outcomes

Course Name: Film Appreciation

Course Code: JM 251

Year: 2019-20

Semester: Autumn

Faculty Name: Rajeev Kumar Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
JM 251.1	Discuss the aspects of film.	Understand
JM 251.2	Differentiate the sound & visual style of film.	Understand
JM 251.3	Differentiate Story plot & screenplay	Understand
JM 251.4	Contrast of commercial & noncommercial film.	Understand
JM 251.5	Describe the journey of Indian cinema.	Remember
JM 251.6	Discuss the changing trend of cinema in 21st century.	Understand

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Course Outcomes

Course Name: Development Communication

Course Code: JM 252

Year: 2019-20

Semester: Spring

Faculty Name: Rajeev Kumar Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
JM 252.1	Differentiate the development model	Understand
JM 252.2	Interpret the socio-economic development	Understand
JM 252.3	Describe the role of communication in development	Understand
JM 252.4	Illustrate the development scenario and communication	Analyse
JM 252.5	Differentiate between communication and development communication	Understand
JM 252.6	Use of different media in development communication	Apply

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Course Outcomes

Course Name: Media Management

Course Code: JM 261

Year: 2019-20

Semester: Autumn

Faculty Name: Rajeev Kumar Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
JM 261.1	Describe the media as an industry.	Remember
JM 261.2	Explain the ownership pattern of media houses.	Understand
JM 261.3	List down the changing pattern of TV, Radio & Film industry.	Remember
JM 261.4	Interpret the relation between media & market.	Understand
JM 261.5	Explain the media in the era of globalization.	Understand
JM 261.6	Interpret the social media and its management.	Understand

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Course Outcomes

Course Name: Practical Documentary Production

Course Code: JM 262

Year: 2019-20

Semester: Spring

Faculty Name: Rajeev Kumar Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
JM 262.1	Identify the different modes of communication	Remember
JM 262.2	Discuss the all forms of production	Understand
JM 262.3	Demonstrate the scripting	Apply
JM 262.4	Outline preparation outline & budgeting of documentary	Analyse
JM 262.5	Integrate all the aspect of shooting	Create
JM 262.6	Design the set -outdoor & indoor.	Create

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Course Outcomes

Course Name: Advanced Broadcast Media

Course Code: JM 272

Year: 2019-20

Semester: Spring

Faculty Name: Rajeev Kumar Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
JM 272.1	Summarize the development of broadcast technology	Understand
JM 272.2	Discuss the basic of TV transmission technology	Understand
JM 272.3	Measure the skill of lighting	Evaluate
JM 272.4	Design fiction and non-fiction programmes	Create
JM 272.5	Demonstrate the skill of production phases	Apply
JM 272.6	Develop own audio-visual programme	Create

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Course Outcomes

Course Name: International Communication

Course Code: JM 282

Year: 2019-20

Semester: Spring

Faculty Name: Rajeev Kumar Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
JM 282.1	Discuss the world in context of flow of information	Understand
JM 282.2	Describe different convention & development in communication	Remember
JM 282.3	Describe the world politics and economics	Understand
JM 282.4	Demonstrate the knowledge of writing on global issues	Apply
JM 282.5	Interpret the knowledge of international developments	Understand
JM 282.6	Assess about India's foreign policy	Evaluate

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Course Outcomes

Course Name: Radio Journalism

Course Code: JM 311

Year: 2019-20

Semester: Autumn

Faculty Name: Rajeev Kumar Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
JM 311.1	Define the various nuances of Radio	Remember
JM 311.2	Interpret the different faces of radio jockeying	Understand
JM 311.3	Design the format & script for programs & news bulletin	Create
JM 311.4	Demonstrate the skill of presenter	Apply
JM 311.5	Compare the different radio programme as per target audience	Evaluate
JM 311.6	Build their own radio programe in any one category	Create

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Course Name: Cyber Journalism

Course Code: JM 312

Year: 2019-20

Semester: Spring

Faculty Name: Rajeev Kumar Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
JM 312.1	Explain basic concepts, acts and theory of New Media	Understand
JM 312.2	Classify pros and cons of new media	Analyse
JM 312.3	Assess the use of new media for various messages.	Evaluate
JM 312.4	Compose write up for new media messages	Create
JM 312.5	Interpret the various culture and digital journalism	Understand
JM 312.6	Develop script for digital media and cyber journalism	Create

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School of Liberal Arts & Sciences

Course Outcomes

Course Name: Public Relation & Advertising

Course Code: JM 321

Year: 2019-20

Semester: Autumn

Faculty Name: Rajeev Kumar Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
JM 321.1	Describe the basics of PR & advertising and their role	Understand
JM 321.2	Illustrate the corporate communication strategies	Analyse
JM 321.3	Interpret the corporate identity, vision & values.	Understand
JM 321.4	Assess the corporate objective & marketing goal.	Evaluate
JM 321.5	Formulate copy for advertisement & PR activity	Create
JM 321.6	Design the PR & Adv campaign for corporates	Create

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MODY UNIVERSITY
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School of Liberal Arts

Course Outcomes

Course Name: INDIAN POLITICAL THOUGHT-I

Course Code: PS 121

Year: FIRST

Semester: AUTUMN 19-20

Faculty Name: Dr. Kumar Sambhav Pareek

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PS 121.1	Identify the evolution of Indian political thought from ancient India to modern India.	Remember
PS 121.2	Demonstrate knowledge of key thinkers and concepts	Apply
PS 121.3	Discuss the concepts to analyze contemporary situations	Understand
PS 121.4	Compare thinkers on similar concept	Evaluate
PS 121.5	Interpret the various social and political ideas of Indian political thinker	Understand
PS 121.6	Analyze the views of Indian political thinkers	Analyze

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MODY UNIVERSITY
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School of Liberal Arts

Course Outcomes

Course Name: INDIAN POLITICAL THOUGHT-II

Course Code: PS 122

Year: FIRST

Semester: SPRING

Faculty Name: Dr. Kumar Sambhav Pareek

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PS 122.1	Identify the evolution of Indian political thought from ancient India to modern India.	Remember
PS 122.2	Demonstrate knowledge of key thinkers and concepts	Apply
PS 122.3	Discuss the concepts to analyze contemporary situations	Understand
PS 122.4	Compare thinkers on similar concept	Evaluate
PS 122.5	Interpret the various social and political ideas of Indian political thinker	Understand
PS 122.6	Analyze the views of Indian political thinkers	Analyze

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Course Outcomes

Course Name: Political Theory-I

Course Code: PS 141

Year: FIRST

Semester: AUTUMN 19-20

Faculty Name: Dr. Kumar Sambhav Pareek

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PS 141.1	Understand the Definition, Traditional and Contemporary Approaches	Understand
PS 141.2	Understand the Institutional, Behavioural, post-Behavioural	Understand
PS 141.3	Understand the systems Analysis	Understand
PS 141.4	Understand the Political Concepts	Understand
PS 141.5	Understand the Power, Authority and Legitimacy	Understand
PS 141.6	Understand the theories of Justice	Understand

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School of Liberal Arts/ School of Science

Course Outcomes

Course Name: Political Theory-II

Course Code: PS 142

Year: 2019-2020

Semester: Spring

Faculty Name: Dr. Neha Bhartiya

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PS142.1	Develop an understanding of different forms of Democracy	Understand
PS142.2	Demonstrate Knowledge of various ideologies	Apply
PS142.3	Identify development of various ideologies in contemporary times	Remember
PS142.4	Compare various regime systems	Evaluate
PS142.5	Analyze new trends in political theory	Analyze
PS142.6	Discuss the new factors which are shaping the world understanding	Understand

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MODY UNIVERSITY
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School of Liberal Arts

Course Outcomes

Course Name: INDIAN GOVERNEMENT & POLITICS-I

Course Code: PS 211

Year: SECOND

Semester: AUTUMN

Faculty Name: Dr. Kumar Sambhav Pareek

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PS 212.1	To identify the causes, impact of British colonial rule and to appreciate the various phases of Indian national movement.	Remember
PS 212.2	To describe the philosophy of Indian constitutions.	Understand
PS 212.3	To evaluate the various Government of Indian acts their provision and reforms.	Evaluate
PS 212.4	Assess the main features of Indian constitution.	Evaluate
PS 212.5	To Examine the fundamental rights and duties and the directive principle of state policy	Apply
PS 212.6	Analyze the impact of different challenges to Indian democracy	Analyze

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Course Outcomes

Course Name: INDIAN GOVERNEMENT & POLITICS-II

Course Code: PS 212

Year: SECOND

Semester: SPRING

Faculty Name: Dr. Kumar Sambhav Pareek

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PS 212.1	Remember the structures of government at the National level.	Remember
PS 212.2	Summarize the structures of government at the National level.	Understand
PS 212.3	Evaluate the structures of government at the National level.	Evaluate
PS 212.4	Assess the role of different structures of government and politics.	Evaluate
PS 212.5	Examine the role of different structures of Indian polity	Apply
PS 212.6	Analyze the impact of different structures of Indian government on polity	Analyze

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MODY UNIVERSITY
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School of Liberal Arts and Sciences

Course Outcomes

Course Name: Comparative Government & Politics-I

Course Code: PS 221

Year: 2019-2020

Semester: Autumn

Faculty Name: Dr. Neha Bhartiya

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PS 221.1	Trace the evolution of Comparative Politics as a discipline and drawing a distinction between Comparative Politics and Comparative Government	Understand
PS 221.2	Identify the nature and scope of Comparative Politics.	Remember
PS 221.3	Analyse the approaches and models of comparison in Developed & developing societies.	Analyse
PS 221.4	Develop acquaintance with the nature and working of Political Parties and pressure Groups	Create
PS 221.5	Critically analyze the features of a liberal democratic and socialist political system with focus on UK, USA and the People's Republic of China.	Analyse
PS 221.6	Demonstrate Basic Understanding of core concepts in Comparative Politics studies.	Apply

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MODY UNIVERSITY
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School of Liberal Arts/ School of Science

Course Outcomes

Course Name: Comparative Government & Politics-II

Course Code: PS 222

Year: 2019-2020

Semester: Spring

Faculty Name: Dr. Neha Bhartiya

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PS222.1	Discuss the features of Federal, Parliamentary, Presidential political system	Understand
PS222.2	Compare the Executive; Legislature; the Judiciary of various countries	Evaluate
PS222.3	Identify different functions of the government under different systems	Remember
PS222.4	Compare the political system of five countries with India	Evaluate
PS222.5	Define recent and contemporary practices in the functioning of government	Remember
PS222.6	Analyse different models of Judiciary, legislature & Executive	Analyse

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MODY UNIVERSITY
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Course Outcomes

Course Name: Western Political Thought From Plato to Bodin

Course Code: PS 331

Year: 2019-2020

Semester: Autumn

Faculty Name: Dr. Neha Bhartiya

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PS 331.1	Identify the dominant features of Early Western Political thought	Remember
PS 331.2	Interpret the features of Medieval Political Thought	Understand
PS 331.3	Critically Analyse the ancient Greek political thought with focus on Aristotle and Plato	Analyse
PS 331.4	Understand Roman Political Thought & its contributions	Understand
PS 331.5	Explore the relation between church and state in medieval era and emergence of the concept of western secularism	Apply
PS 331.6	Develop an understanding to the background of modern political thought	Create

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MODY UNIVERSITY
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Course Outcomes

Course Name: Western Political Thought From Hobbes to Marx

Course Code: PS 332

Year: 2019-2020

Semester: Spring

Faculty Name: Dr. Neha Bhartiya

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PS332.1	Critically examine Hobbes as the founder of the science of materialist politics; Locke as the founder of Liberalism with focus on his views on natural rights, property and consent; and Rousseau's views on Freedom and Democracy;	Evaluate
PS332.2	Understand Hegel's & Green's views on Civil Society and State;	Understand
PS332.3	Demonstrate Critical understanding of Bentham's Utilitarianism; and John Stuart Mill's views on liberty and representative government	Apply
PS332.4	To analyse the Marxist philosophy in making a better society	Analyse
PS332.5	Compare the diverse view on the nature of Social Contract	Evaluate
PS332.6	Interpret various western political thinkers and their evolution of thought	Remember

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MODY UNIVERSITY
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School of Liberal Arts and Sciences

Course Outcomes

Course Name: International Relations- I

Course Code: PS 341

Year: 2019-2020

Semester: Autumn

Faculty Name: Dr. Neha Bhartiya

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PS 341.1	Explain scope and subject matter of International Relations as an autonomous Academic discipline.	Understand
PS 341.2	Analyse Approaches and methods to study the discipline through Political realism, Pluralism and Worlds system's Model.	Analyse
PS 341.3	Know the impact of first world war and second world war and its causes and Consequences	Understand
PS 341.4	Evaluate the post war developments through the emergence of third world.	Evaluate
PS 341.5	Define dynamic nature of International relations and importance of having a systematic framework in order to evaluate issues in world politics	Remember
PS 341.6	Explore contemporary theories in International Relations.	Apply

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MODY UNIVERSITY
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Course Outcomes

Course Name: International Relations-II

Course Code: PS 342

Year: 2019-2020

Semester: Spring

Faculty Name: Dr. Neha Bhartiya

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PS342.1	Examining Indian Foreign Policy: Basic Principles, Evolution and Bilateral Relations	Apply
PS342.2	Evaluating the working of UN and its organs; Peace keeping Function and Human Rights	Evaluate
PS342.3	Analysing the need and relevance of Regional organisations and discussing importance of Economy in contemporary world	Analyse
PS342.4	Understand the international political economy & to analyse the international security Arms Race. Arms control and Disarmament.	Understand
PS342.5	Discuss the Foreign Policy of important Nations in the world	Understand
PS342.6	Identify the developments in third world countries in post-world war II era	Remember

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Course Outcomes

Course Name: Contemporary Political Thought

Course Code: PS 351

Year: 2019-2020

Semester: Autumn

Faculty Name: Dr. Neha Bhartiya

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PS 351.1	Define the contemporary discourses in political theory	Remember
PS 351.2	Handle complex and abstract arguments in political theory	Apply
PS 351.3	Develop a conceptual framework in the understanding of the ideological processes in the contemporary world	Create
PS 351.4	Compare the theories of different political thinkers and political scientists	Evaluate
PS 351.5	Analyse the utility of theories given by Political Thinkers	Analyse
PS 351.6	Understand the growth of political theory in contemporary times	Understand

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Course Outcomes

Course Name: Indian Foreign Policy

Course Code: PS 352

Year: 2019-2020

Semester: Spring

Faculty Name: Dr. Neha Bhartiya

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PS352.1	Discuss the foreign policy their determinants features& its relevance.	Understand
PS352.2	Critically analyse the Indian's bilateral relations with major power and neighbouring countries.	Analyse
PS352.3	Identify various issues and challenges towards international relations	Remember
PS352.4	Analyse the changing relations in the sub-continent over the years.	Analyse
PS352.5	Discuss the formation of major institutions in regulating Political economy	Understand
PS352.6	Evaluate the major challenges in Contemporary scenario	Evaluate

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Course Outcomes

Course Name: PUBLIC POLICY-I

Course Code: PS 361

Year: THIRD

Semester: AUTUMN

Faculty Name: Dr. Kumar Sambhav Pareek

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PS 361.1	Demonstrate knowledge and understanding of public policy analytical tools.	Apply
PS 361.2	Describe different models of policy analysis	Understand
PS 361.3	Analyze policy issues	Analyze
PS 361.4	Identify different stages of the Public policy process in terms of theoretical formulation and the process	Understand
PS 361.5	Evaluate how and why public policies emerge	Evaluate
PS 361.6	Apply critical concepts to understand challenges of public sector organization.	Apply

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Course Outcomes

Course Name: Public Policy-II

Course Code: PS 362

Year: 19-20

Semester: Spring

Faculty Name: Dr. Arun Kumar

At the end of the course, students will be able to

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PS 362.1	Understand Policy implementation.	Understand
PS 362.2	Understand Approaches to policy implementation.	Understand
PS 362.3	Understand Policy Evaluation.	Understand
PS 362.4	Understand Policy change and continuity.	Understand
PS 362.5	Understand Globalization of National policy making.	Understand
PS 362.6	Understand Policy agenda in global context.	Understand

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Course Outcomes

Course Name: PRINCIPLES OF PUBLIC ADMINISTRATION-I

Course Code: PS 371

Year: THIRD

Semester: AUTUMN

Faculty Name: Dr. Kumar Sambhav Pareek

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PS 371.1	Discuss the evolution and growth of the discipline of Public Administration.	Understand
PS 371.2	To identify the different types of Administration	Remember
PS 371.3	Assess the basic principles and approaches of Public Administration	Evaluate
PS 371.4	To analyze the administrative theories and concepts to make sense of administrative practices.	Analyze
PS 371.5	familiarize the students with the classic contributions and new research perspectives in the field of public administration	Apply
PS 371.6	Theoretical assessment of basic concepts and dynamics relating to Public organizations.	Evaluate

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Course Outcomes

Course Name: Principles of Public Administration-II

Course Code: PS 372

Year: 19-20

Semester: Spring

Faculty Name: Dr. Arun Kumar

At the end of the course, students will be able to

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PS 372.1	Understand Administrative Behaviour	Understand
PS 372.2	Understand Management of Public Enterprises	Understand
PS 372.3	Understand Control over Public Administration	Understand
PS 372.4	Understand Personnel Administration	Understand
PS 372.5	Understand Financial Administration: Budget Formulation and Execution	Understand
PS 372.6	Understand Parliamentary control.	Understand

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Course Outcomes

Course Name: INDIAN ADMINISTRATION

Course Code: PS 381

Year: THIRD

Semester: AUTUMN

Faculty Name: Dr. Kumar Sambhav Pareek

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PS 381.1	Discuss the evolution and growth of Indian Administration	Understand
PS 381.2	Familiarity with the constitutional framework on which Indian Administration is based	Apply
PS 381.3	Describe the role of Union Executive	Remember
PS 381.4	Analyzing the state and district administration	Analyze
PS 381.5	Examine the Public personnel system of the Indian Republic	Apply
PS 381.6	Assess the Institutions of Financial Administration in India	Evaluate

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Course Outcomes

Course Name: Local Self Government in India

Course Code: PS 382

Year: 19-20

Semester: Spring

Faculty Name: Dr. Arun Kumar

At the end of the course, students will be able to

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PS 382.1	Describe committees on Democratic Decentralization	Understand
PS 382.2	Remember Rural Local Government and Urban Local Government	Remember
PS 382.3	Understand the function of Election and Finance	Understand
PS 382.4	Understand the concept of Indian states from 73rd to 74th amendment act.	Understand
PS 382.5	Understand the concept of SWOT	Understand
PS 382.6	Understand the issues and Themes in Local Government in India	Understand

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Course Outcomes

Course Name: ENT (Practical)

Course Code: BP 261

Year: II

Semester: 3rd

Faculty Name: Dr. Neha Vyas

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BP 261.1	Describe pathophysiology, signs & symptoms, clinical features, examination & management of ENT conditions	Application
BP 261.2	Surgical management of Lower motor neuron diseases for PT	Application
BP 261.3	Post-surgical care, management, patient care of tracheostomy	Application
BP 261.4	Define Hearing loss, causes, and its management	Application

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Course Outcomes

Course Name: Pediatrics (physiotherapy laboratory)

Course Code: BP 262

Year: II

Semester: 4th

Faculty Name: Dr. Neha Vyas

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BP 262.1	Evaluation of early detection and intervention	Evaluate
BP 262.2	Evaluation of milestones	Evaluate
BP 262.3	Evaluation for developmental delay	Evaluate

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Course Outcomes

Course Name: Dermatology (Practical)

Course Code: BP 271

Year: II

Semester: 3rd

Faculty Name: Dr. Neha Vyas

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BP 271.1	Describe pathophysiology, signs & symptoms, clinical features, examination & management of Skin conditions	Evaluate

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Course Outcomes

Course Name: Radiology (Physiotherapy Laboratory)

Course Code: BP 272

Year: II

Semester: 4th

Faculty Name: Dr. Neha Vyas

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BP 272.1	Clinical findings of Xray, MRI, and CT scan for the orthopedic and neurological conditions	Analysis
BP 272.2	Implication of findings in radiology for treatment	Synthesis

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Course Outcomes

Course Name: Exercise Therapy I

Course Code: BP 102

Year: I Year

Semester: 2nd semester

Faculty Name: Dr. Neha Vyas

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BP 20.102.1	Describe basics of exercise therapy including principles, assessment, and importance. Understand the classification and application of movements and positions	Application
BP 20.102.2	Understand Kinematics and kinetics of human body	Understand
BP 20.102.3	Principles and application of MMT and Goniometry	Evaluation
BP 20.102.4	Learning and practice motor learning condition	Remember
BP 20.102.5	Understand Spam, Fatigue during Gymnasium and uses of relaxation therapies after gymnasium	Application and understand
BP 20.102.6	Identify the movement and apply the exercises for the patients	Apply

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Course Outcomes

Course Name: Human Anatomy-I

Course Code: BP 111

Year: 1st

Semester: First

Faculty Name: Dr. Neha Vyas

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BP 111.1	Understand histology of cell, tissue, blood, and development of skin and embryology	Remember
BP 111.2	Describe the various systems of human body (anatomically) like digestive system, cardiovascular system, reproductive system, and endocrine system	Analysis
BP 111.3	Understand the organization and function of CNS, ANS, cranial Nerves and sensory system	Understand
BP 111.4	Understand spinal cord, spinal cord segment, and areas	Understand
BP 111.5	Describe the function of brain and parts of brain, the pyramidal system, blood supply of brain and integration system	Remember
BP 111.6	Understand development structure and function of brain, spinal cord	Create

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Course Outcomes

Course Name: Sociology

Course Code: BP 112

Year: I

Semester: 2nd

Faculty Name: Dr. Neha Vyas

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BS 20.110.1	Understand the meaning and importance of sociology with reference to health care professionals	Understand
BS 20.110.2	Relate social factors and diseases	Remember
BS 20.110.3	Explain socialization, its meaning, and types	Understand
BS 20.110.4	Understand the meaning of family, types, health, and illness of family members related to each other and relation of family health with physiotherapy	Understand
BS 20.110.5	Rule out the social problems of disabled, women (employment and prostitution) and geriatrics population	Understand
BS 20.110.6	Analyses the social factors of patient to evaluate\	Analyses

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Course Outcomes

Course Name: Basics of psychology

Course Code: BP 121

Year: I

Semester: 1st

Faculty Name: Dr. Neha Vyas

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PL 20.111.1	Understand the psychology, its branches, various aspects and how it effects daily living life	Understand
PL 20.111.2	Describe learning and its theories. Analysis of intelligence(tests) and theories	Evaluate and understand
PL 20.111.3	Make difference between motives and drives. Understand theories about emotions	Understand and apply
PL 20.111.4	Analysis of personality, observation of body sings and theories	Evaluate
PL 20.111.5	Understand the causes of stress and stress management	Apply and understand
PL 20.111.6	Analyses the psychological aspects to evaluating patients in OPD	Analyses

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Course Outcomes

Course Name: Human anatomy-II

Course Code: BP 122

Year: I

Semester: 2nd Semester

Faculty Name: Dr. Neha Vyas

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BP 20.104.1	Morphology of Bone structure, function, and composition	Understand
BP 20.104.2	Learn about joint structure, function, muscle attachments, blood supply, never supply and clinical anatomy of joints	Knowledge
BP 20.104.3	Anatomy of Upper extremity and lymphatic drainage	Understand
BP 20.104.4	Describe the detailed anatomy of lower extremities, thorax, Vertebras and intervertebral disc. Ligament and muscle attachment	Understand
BP 20.104.5	Identify the bone and muscles of face and skull bones, thoracic cage, and radiological anatomy of musculoskeletal system	Apply
BP 20.104.6	Understand the anatomical body structure of various segments	Apply

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Course Outcomes

Course Name: Basic nursing, Emergency and CPR (Laboratory)

Course Code: BP 131

Year: I

Semester: 1st

Faculty Name: Dr. Neha Vyas

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BP 20.107.1	Will be able to describe nursing and able to perform the bandaging to various segments of body	Apply
BP 20.107.2	Perform lifting of patient in hospital and clinical settings from bed to wheelchair, transferring the patient in IPDs, perform dressing Post-operative, and CPR	Apply
BP 20.107.3	Explain hygiene techniques to people, Evaluate for vital sings	Evaluate
BP 20.107.4	Understand the importance of Professional History of PT, National and international bodies for PTs, council (state and central) and license for practice	Understand
BP 20.107.5	Role of physiotherapist in community as a counselor and educator to patient and family	Understand
BP 20.107.6	Apply the basic nursing care, and life saving techniques to the people	Apply

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Course Outcomes

Course Name: Advanced Organic Chemistry Laboratory -III

Course Code: CH 681

Year: Academic Year: 2019-20

Semester: Autumn

Faculty Name: Dr. Sarita Khaturia

At the end of the course, students will be able to

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH 681.1	Learn structure elucidation	Understand
CH 681.2	Understand characterization by UV-Visible Spectroscopy	Create
CH 681.3	Characterization by IR Spectroscopy	Design
CH 681.4	Analyze structure by NMR Spectroscopy	Analyze
CH 681.5	Structure characterization by Mass Spectroscopy	Apply
CH 681.6	Remember the terms and steps involved in separation of aminoacids by paper chromatography	Remember

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Course Outcomes

Course Name: Medicinal Chemistry

Course Code: CH 642

Year: M.Sc. II year 2019-20

Semester: IV Spring

Faculty Name: Dr. Sarita Khaturia

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH 642.1	Analyze the different stages and different techniques of drug discovery.	Analyze
CH 642.2	Understand the role of medicinal chemistry in drug research and basic principles of medicinal chemistry.	Understand
CH 642.3	Explain brief concept of SAR and various strategies to design and develop new drug like molecules for biological targets.	Explain
CH 642.4	Apply and explain drug receptor interactions in receptor site theory and combinatorial synthesis and in approaches to drug design.	Apply
CH 642.5	Remember the structure, uses and side effect of drugs acting as antibiotics, anti bacterials and anti malarial drugs.	Remember
CH 642.6	Describe the drugs acting as NSAID, antihistaminic, anti asthmatic, antiviral and anti neoplastic agents.	Describe

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Course Outcomes

Course Name: Environmental and Green Chemistry

Course Code: CH 651

Year: M.Sc. II year 2019-20

Semester: III

Faculty Name: Dr. Sarita Khaturia

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH 651.1	Complexation in natural water and waste-water, Micro-organism in aquatic chemical reactions, Eutrophication, Re-cycle of waste-water in process industry	Analyze
CH 651.2	Understand Soil formations, soil properties (physical/chemical), inorganic and organic components in soil, acid-base and ion-exchange reactions in soil, micro and macro nutrients, nitrogen pathways and NPK in soil.	Understand
CH 651.3	The role of chemicals in ozone destruction, The green-house effect and Global warming, El-Nino phenomenon.	Explain
CH 651.4	Treatment of sewage and reuse of water in industry and agriculture, Microbiology mediated redox reactions and Nitrogen transformation by bacteria	Apply
CH 651.5	Remember the Toxic chemicals in the environments, Impact of toxic chemicals on enzymes, Biochemical effects of arsenic, cadmium, lead, mercury, carbon monooxide, nitrogen oxides, sulphur oxides, ozone, PAN, cyanide, pesticides, insecticides and carcinogens	Remember
CH 651.6	Green reagent-dimethyl carbonate and other polymer supported reagents, green catalysts-acid catalyst, basic catalysts, oxidation catalysts, polymer supported catalysts, photocatalyst, green synthesis.	Evaluate

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Course Outcomes

Course Name: Advanced Organic Chemistry Laboratory -I

Course Code: CH 661

Year: Academic Year: 2019-20

Semester: Autumn

Faculty Name: Dr. Sarita Khaturia

At the end of the course, students will be able to

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH 661.1	Learn structure elucidation	Understand
CH 661.2	Develop step wise synthesis of Benzophenone - Benzpinacol - Benzpinacolone	Create
CH 661.3	Recognize the components of a mixture of three organic compounds (three solids or two liquids and one solid or two solids and one liquid)	Evaluate
CH 661.4	Analyze Beckmann rearrangement : Benzanilide from benzene Benzene - Benzophenone - Benzphenone oxime - Benzanilide	Analyze
CH 661.5	Examine Skraup and Fisher Indole synthesis	Apply
CH 661.6	Remember the multi steps involved in synthesis of heterocyclic compounds	Remember

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Course Outcomes

Course Name: Separation Techniques and Data Analysis

Course Code: CH 641

Year: M.Sc. II year 2019-20

Semester: III

Faculty Name: Dr. Sarita Khaturia

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH 641.1	Analysis of Data, Types of errors, propagation of errors, accuracy and precision, and least-square analysis, average standard deviation.	Analyze
CH 641.2	Understand the adsorption and partition chromatography its Definition of terms, techniques and chemical concepts, Column adsorption chromatography, Partition chromatography-column, paper and TLC. Describe the High performance liquid chromatography itsIntroduction, choice of the system, instrumentation and applications.	Understand
CH 641.3	Gas liquid chromatography: Introduction, choice of the system, instrumentation, qualitative and quantitative analysis of mixtures. Gel permeation/size exclusion chromatography, its Introduction, theory and applications.	Explain
CH 641.4	Solvent Extraction: - Introduction, principles, factors that influence solvent extraction, ion association complexes and applications of solvent extraction.	Apply
CH 641.5	Remember the Ion exchangers its theory, action of ion-exchange resins, ion exchange chromatography, exchange capacity, ion-exchange resins and liquid ion-exchange resins, applications of cation and anion ion exchangers.	Remember
CH 641.6	Evaluate Mean, mode, median and significant numbers.	Evaluate

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Course Outcomes

Course Name: Chemistry of Natural Products

Course Code: CH 632

Year: M.Sc. II year 2019-20

Semester: IV Spring

Faculty Name: Dr. Sarita Khaturia

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH 632.1	Understand the Classification, nomenclature, occurrence, isolation, general methods of structure determination, isoprene rule for following representative molecules: Citral, Gereniol, α-Terpeneol, Menthol, Farnesol,	Understand
CH 632.2	Explain the nomenclature, biogenesis and general methods of structure determination. Isolation and synthesis of Apigenin, Luteolin, Quercetin, Myrcetin, Quercetin-3-glucoside, Vitexin, Diadzein, Butein,	Explain
CH 632.3	Discuss some of the key features of Zingiberene, Santonin, Phytol, Abietic acid and β-Carotene, Quinine and Morphine.	Discuss
CH 632.4	Remember the classification based on nitrogen heterocyclic ring, role of alkaloids in plants. Structure, stereochemistry, synthesis and biosynthesis of the following: Ephedrine, (+)- Coniine, Nicotine, Atropine	Remember
CH 632.5	Structure determination and synthesis of Cholesterol, Bile acids, Androsterone, Testosterone, Estrone, Progestrone, Aldosterone, Biosynthesis of Steroids.	Describe
CH 632.6	Describe the synthesis and applications of Aureusin, Cyanidin-7-arabinoside, Cyanidine, Hirsutidin, Haemoglobin and Chlorophyll	Apply

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Course Outcomes

Course Name: Heterocyclic Chemistry

Course Code: CH 622

Year: M.Sc. II year 2019-20

Semester: IV Spring

Faculty Name: Dr. Sarita Khaturia

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH 622.1	Understand the nomenclature and classification of heterocyclic compounds.	Understand
CH 622.2	Explain the heterocyclic chemistry which includes various methods for ring synthesis and application of those methods for the preparation of specific groups of heterocyclic systems.	Explain
CH 622.3	Discuss some of the key applications of various heterocyclic compounds in diverse fields.	Discuss
CH 622.4	Remember a concise introduction of the most important heterocyclic systems three, four, five, and six-membered heterocyclic systems as well as fused heterocyclic systems.	Remember
CH 622.5	Describe the methods of preparation of six membered heterocycles with one or two heteroatoms.	Describe
CH 622.6	Describe the applications of heterocyclic compounds in diverse areas such as in medical dyes, photosensitizers, coordination compounds and in polymeric materials	Describe

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Course Outcomes

Course Name: **Organic Chemistry-V**

Course Code: CH 391

Year: B.Sc. III year 2019-20

Semester: V

Faculty Name: Dr. Sarita Khaturia

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH 391.1	Analyze Proton magnetic resonance (^{1}H-NMR) spectroscopy, nuclear shielding and deshielding, chemical shift and molecular structure, spin-spin splitting and coupling constants, areas of signals.	Analyze
CH 391.2	Understand the Molecular orbital picture and aromatic characteristics of pyrrole, furan, thiophene and pyridine. Methods of synthesis and chemical reactions with particular emphasis on the mechanism of electrophilic substitution. Mechanism of nucleophilic substitution reactions in pyridine derivatives. Comparison in basicity of pyridine, piperidine and pyrrole. Introduction to condensed five and six-membered heterocycles. Preparation and reactions of indole, quinoline and isoquinoline with special reference to Fisher indole synthesis, Skraup synthesis and Bischler-Napieralski synthesis, Mechanism of electrophilic substitution reactions of indole, quinoline and isoquinoline.	Understand
CH 391.3	Explain Organosulphur Compounds their Nomenclature, structural features. Methods of formation and chemical	Explain

	reactions of thiols, thioethers, sulphonic acids, sulphonamides and sulphaguanidine.	
CH 391.4	Evaluate PMR spectra of simple organic molecules such as ethyl bromide, ethanol, acetaldehyde, 1,1, 2-tribromoethane, ethyl acetate, toluene and acetophenone. Problems pertaining to the structure elucidation of simple organic compounds using UV, IR and PMR spectroscopic techniques.	Evaluate
CH 391.5	Remember organomagnesium Compounds: the Grignard reagents-formation, structure and chemical reactions. Organozinc compounds: formation and chemical reactions. Organolithium compounds: formation and chemical reactions.	Remember
CH 391.6	Describe Organic Synthesis via Enolates: Acidity of α-hydrogens, alkylation of diethyl malonate and ethyl acetoacetate. Synthesis of ethyl acetoacetate; the Claisen condensation. Keto-enol tautomerism of ethyl acetoacetate. Alkylation of 1, 3-dithianes. Alkylation and acylation of enamines.	Describe

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Course Outcomes

Course Name: Laboratory course in Chemistry-VI

Course Code: CH 382

Year: Academic Year: 2020-21

Semester: VI Spring

Faculty Name: Dr. Sarita Khaturia

At the end of the course, students will be able to

CO Number	**Course Outcome statement** At the completion of the course, student will be able to	**Taxonomy Level**
CH 382.1	Understand handling with various chemistry glasswares and chemicals in organic chemistry laboratory.	Understand
CH 382.2	Learn and prepare various solutions used in the chemistry laboratory	Create
CH 382.3	Prepare various organic compounds and characterize them.	Create
CH 382.4	Learn separation of two organic mixture by using mild base like $NaHCO_3$	Understand
CH 382.5	Purify organic compounds through crystallization	Analyze
CH 382.6	Remember the terms and steps of preparation of new compounds like Iodoform, m-dinitrobenzene	Remember

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Course Outcomes

Course Name: Pharmaceutical Chemistry laboratory

Course Code: CH 374

Year: B.Sc. III year 2019-20

Semester: VI Spring

Faculty Name: Dr. Sarita Khaturia

CO Number	**Course Outcome statement** At the completion of the course, student will be able to	**Taxonomy Level**
CH 374.1	Understand the role of drugs in the healthcare system	Understand
CH 374.2	Perform the preparation of Aspirin	Create
CH 374.3	Remember the terms and steps of preparation of Paracetamol and characterize it	Remember
CH 374.4	Design the preparation of Hippuric acid	Create
CH 374.5	Design the preparation of Phenytoin	Create
CH 374.6	Purify all the prepared drugs through crystallization	Analyze

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Course Outcomes

Course Name: Pharmaceutical Chemistry

Course Code: CH 354

Year: B.Sc. III year 2019-20

Semester: VI Spring

Faculty Name: Dr. Sarita Khaturia

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH 354.1	Analyze the different factors affecting bioactivity, parameters used in QSAR and different techniques of drug discovery.	Analyze
CH 354.2	Understand isolation, SAR, mechanism of action of drugs, the role of pharmaceutical chemistry in drug research, and basic principles of pharmaceutical chemistry.	Understand
CH 354.3	Explain significance of drug metabolism, routes of drug administration, drug receptor interactions in receptor site theory brief concept of SAR and various strategies to design and develop new drug like molecules for biological targets.	Explain
CH 354.4	Apply various approaches to drug design in combinatorial synthesis of drug discovery.	Apply
CH 354.5	Remember the structure, uses and side effect of drugs acting as antibiotics, antibacterials and anti malarial drugs.	Remember
CH 354.6	Describe the drugs acting as NSAID, antihistaminic, antiasthmatic, antiviral and antineoplastic agents.	Describe

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Course Outcomes

Course Name: Organic Chemistry VI

Course Code: CH 324

Year: B.Sc. III year 2019-20

Semester: VI Spring

Faculty Name: Dr. Sarita Khaturia

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH 324.1	Analyze the process of polymerization, free radical, cationic and anionic and preparation, properties and applications of Bakelite, Nylon 6:6 and Polyurethanes.	Analyze
CH 324.2	Evaluate the process of epimerization on conversion of glucose into mannose	Evaluate
CH 324.3	Remember a concise introduction of soap and detergents process of manufacturing of and study of saponification value, Acid value and Iodine value. Study of estimation of protein, aminoacids and peptides.	Remember
CH 324.4	Explain the classification, nomenclature and properties of carbohydrates.	Explain
CH 324.5	Understand the structure of D-glucose and interconversion of glucose into fructose Acid value, Iodine value and estimation of protein, aminoacids and peptides.	Understand
CH 324.6	Understand classification of dyes and their preparation.	Understand

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Course Outcomes

Course Name: Inorganic Chemistry-II

Course Code: CH 282

Year: B.Sc. II year 2019-20

Semester: IV

Faculty Name: Dr. Harlal Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH 282.1	Understand the chemistry of Actinides, general features, their separation and similarities between later Lanthanides and Actinides.	Understand
CH 282.2	Remember the principle involved in extraction of elements, oxidation and reduction reaction.	Remember
CH 282.3	Analyze the redox cycle, redox stability in water, Frost, Latimer and Pourbaix diagram.	Analyze
CH 282.4	Apply the redox potential data to characterize the free energy cost	Apply
CH 282.5	Explain the Arrhenius, Bronsted-Lowry, Lux-Flood and Lewis concept of acids and bases	Create
CH 282.6	Assess physical properties of a solvent, their types, characteristics and reactions in non aqueous solvents liquid NH_3 and liquid SO_2	Evaluate

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Course Outcomes

Course Name: Physical and Inorganic Chemistry-II

Course Code: CH 182

Year: B.Sc. I year 2019-20

Semester: II

Faculty Name: Dr. Harlal Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH182.1	Understand the structure of liquids and structural difference between solid, liquid and gases. Elementary idea of nucleus, nuclear forces, mass defect, binding energy, fission and fusion.	Understand
CH182.2	Analyze various models of radioactivity: Liquid drop, shell model, GM counters, Wilson cloud chamber, isotopes, group displacement laws and radioactive steady state. Chemistry of Xenon compounds (XeF_2, XeF_4, XeF_6, $XeOF_4$, XeO_2F_2, XeO_3).	Analyze
CH182.3	Applications of some important compounds of s and p-block elements: hydrides of boron, fullerenes, carbides, silicates interhalogens and polyhalides.	Apply
CH182.4	Define space lattice, unit cell and law of crystallography. Remember the basic properties of s- and p-block elements, chemical properties of the noble gases.	Remember
CH182.5	Evaluate mass defect, binding energy, fission and fusion. Compare crystal structure of NaCl, KCl and CsCl (Laue's method and Powder method).	Evaluate
CH182.6	Explain the diagonal relationships of s- block elements. Symmetry of elements. Weak interaction:	Understand

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Course Outcomes

Course Name: Physical and Inorganic Chemistry-I

Course Code: CH 181

Year: B.Sc. I year 2019-20

Semester: I

Faculty Name: Dr. Harlal Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH 181.1	Analyze the bond strength and bond energy, percentage ionic character from dipole moment and electronegativity difference.	Analyze
CH 181.2	Apply the Valence shell electron pair repulsion (VSEPR) theory to NH_3, H_3O^+, SF_4, ClF_3, ICl_2 and H_2O, MO theory, homonuclear and heteronuclear (CO and NO) diatomic molecules	Apply
CH 181.3	Remember the Postulates of kinetic theory of gases, deviation from ideal behavior, Vander Waals equation of state. Fajan's rule. Metallic bond, free electron, valence bond and band theories.	Remember
CH 181.4	Explain the Valence bond theory and its limitations, directional and shapes of simple inorganic molecules and ions. Ionic structures, radius ratio effect and coordination number, limitation of radius ratio rule	Explain
CH 181.5	Evaluate the Schrodinger wave equation, lattice energy and Born Haber cycle, Molecular velocities: Root mean square, average and most probable velocities. Qualitative discussions of the Maxwell's distribution of molecular velocities, collision number, mean free path and collision diameter. Liquefaction of gases (based on Joule-Thomson effect).	Evaluate
CH 181.6	Understand the De Broglie matter waves, Heisenberg uncertainty principle, atomic orbitals, significance of Ψ and Ψ^2, quantum numbers, Zeeman and Stark effect, shapes of s, p and d orbitals. Aufbau and Pauli exclusion principles, Hund's multiplicity rule. Effective nuclear charge	Understand

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Course Outcomes

Course Name: **Laboratory Course in Chemistry-II**

Course Code: CH 172

Year: Academic Year: 2019-20

Semester: Spring

Faculty Name: Dr. Harlal Singh

At the end of the course, students will be able to

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH 172.1	Understand handling with various chemistry glasswares and chemicals in organic chemistry laboratory.	Understand
CH 172.2	Learn and prepare various standard solutions of different Molarity/Normality of titrants	Create
CH 172.3	Test the extra elements present in organic compounds through L.S and identification of functional groups	Evaluate
CH 172.4	Remember how to prepare various solutions and Chemicals used in the chemistry laboratory	Remember
CH 172.5	Analyze the given mixture containing two radicals including interfering acid radicals- fluoride, borate, oxalate, phosphate and excluding insoluble.	Analyze
CH 172.6	Calculate surface tension of liquids by various techniques.	Apply

Dr. Harlal Singh

Signature of the faculty 2/2/20

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Course Outcomes

Course Name: **Laboratory Course in Chemistry-I**

Course Code: CH 171

Year: Academic Year: 2019-20

Semester: Autumn

Faculty Name: Dr. Harlal Singh

At the end of the course, students will be able to

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH 171.1	Understand handling with various chemistry glasswares and chemicals in organic chemistry laboratory.	Understand
CH 171.2	Learn and prepare various standard solutions of different Molarity/Normality of titrants	Create
CH 171.3	Explain the process of determination of viscosity	Explain
CH 171.4	Examine the extra elements present in organic compounds through L.S	Apply
CH 171.5	Analyze the given mixture containing two radicals including interfering acid radicals- fluoride, borate, oxalate, phosphate and excluding insoluble.	Analyze
CH 171.6	Process of purification of a given organic sample solid/liquid through crystallization /distillation through melting point or boiling point	Remember

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Course Outcomes

Course Name: **Laboratory Course in Chemistry-I**

Course Code: CH 571

Year: Academic Year: 2019-20

Semester: Autumn

Faculty Name: Dr. Harlal Singh

At the end of the course, students will be able to

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH 571.1	Understand handling with various chemistry glasswares and chemicals in organic chemistry laboratory.	Understand
CH 171.2	Calculate the percentage yield of synthesized compounds	Calculate
CH 171.3	Apply the basic principle behind the prediction of geometry of compounds	Apply
CH 171.4	Conclude the structure of synthesized compounds by physiochemical techniques	Evaluate
CH 171.5	Analyze the acidic and basic radicals through the process of qualitative and quantitative analysis	Analyze
CH 171.6	Process of purification of a synthesized inorganic sample by recrystallization technique	Remember

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Course Outcomes

Course Name: Inorganic Chemistry Lab-II

Course Code: CH 562

Year: M.Sc. I year 2019-20

Semester: II

Faculty Name: Dr. Harlal Singh

CO Number	**Course Outcome statement** At the completion of the course, student will be able to	**Taxonomy Level**
CH562.1	understand handling with various chemistry glasswares and chemicals.	Understand
CH562.2	Learn and prepare various solutions used in the chemistry laboratory	Create
CH562.3	Formulate suitable methods for the preparation of desired inorganic complexes	Create
CH562.4	Purify coordination compounds through crystallization and interpret the structure of metal complexes using IR spectra	Understand
CH562.5	Students will have hands on training in developing the skills related to qualitative and quantitative inorganic analysis.	Create
CH562.6	Separation of cations and anions by analytical methods	Analyze

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Course Outcomes

Course Name: Inorganic Chemistry-II

Course Code: CH 512

Year: M.Sc. I year 2019-20

Semester: II

Faculty Name: Dr. Harlal Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH512.1	Analyze the spectra of transition metal ions, Orgel, T-S diagram	Analyze
CH512.2	Determine the terms, state, microstate, magnetic moments. EAN, 18 electron	Apply
CH512.3	Interpret the structure and bonding of metal pi complexes	Understand
CH512.4	Explain structure and bonding of metal clusters	Understand
CH512.5	Remember the metal ions takes part in biological system and their concentration effect and physiological effect on biological system	Remember
CH512.6	Classified the isopoly, heteroploy acids, boranes, carboranes	Analyze

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Course Outcomes

Course Name: Inorganic Chemistry-I

Course Code: CH 511

Year: M.Sc. I year 2019-20

Semester: I

Faculty Name: Dr. Harlal Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH 511.1	Analyze the Walsh diagrams (tri-atomic and penta-atomic molecules), dπ-pπ bond, Bent rule and energetics of hybridization. Stepwise and overall formation constants and their interaction, trends in stepwise constant,	Analyze
CH 511.2	Apply the kinetic application of valence bond and crystal field theories, kinetics of octahedral substitution, acid hydrolysis. Chelate effect, determination of binary formation constants by pH-metry and spectrophotometry	Apply
CH 511.3	Remember the some simple reactions of covalently bonded molecules. Limitation of crystal field theory, molecular orbital theory, octahedral, tetrahedral and square planar complexes, π-bonding and molecular orbital theory	Remember
CH 511.4	Explain the factors affecting the stability of metal complexes with reference to the nature of metal ion and ligand. Substitution reactions in square planar complexes, the trans effect, mechanism of the substitution reaction.	Explain
CH 511.5	Evaluate the kinetics of octahedral substitution, acid hydrolysis, conjugate base mechanism, anation reactions, and reactions without metal ligand bond cleavage.	Evaluate
CH 511.6	Understand the Redox reaction, electron transfer reactions, mechanism of one electron transfer reactions, outer sphere type reactions, cross reactions and Marcus-Hush theory, inner sphere type reactions.	Understand

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Course Outcomes

Course Name: Inorganic Chemistry-III

Course Code: CH 381

Year: B.Sc. I year 2019-20

Semester: V

Faculty Name: Dr. Harlal Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH 381.1	Describe the chemistry of HSAB Concept.	Understand
CH 381.2	Illustrate the acid base strength and hardness and softness. Calculate the CFSE values of complexes	Apply
CH 381.3	Remember the limitations of VBT. Show various shapes of d orbital and degeneracy of d-orbitals.	Remember
CH 381.4	Explain the crystal field theory and analyze magnetic properties of transition metal complexes	Analyze
CH 381.5	Explain the electronic spectra of metal complexes and generate term symbols.	Create
CH 381.6	Test for redox reaction with help of oxidation-reduction. Quality of water checked by complexometric titrations	Evaluate

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Course Outcomes

Course Name: Inorganic Chemistry-IV

Course Code: CH 314

Year: B.Sc. III year 2019-20

Semester: VI

Faculty Name: Dr. Harlal Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH 314.1	Analyze the factors affecting the thermodynamic stability of metal complexes and substitution reactions of square planar complexes.	Analyze
CH 314.2	Apply the process of homogeneous hydrogenation, mononuclear carbonyls and nature of bonding in metal carbonyls	Apply
CH 314.3	Remember the terms Nitrogen fixation, Inorganic polymers such as Silicones and Phosphazenes.	Remember
CH 314.4	Explain the classification, nomenclature and properties of organometallic compounds	Understand
CH 314.5	Assess the role of essential and trace elements to biological processes, metalloporphyrins like Haemoglobin and Myoglobin	Evaluate
CH 314.6	Relationship between formation constanst and overall stability constant. Understand the biological role of alkali and alkaline earth metal ions with special reference to Ca^{+2}	Understand

Dr. Harlal Singh

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School of Science

Course Outcomes

Course Name: Functional Analysis

Course Code: MS 612

Year: M.Sc. II

Semester: Spring

Faculty Name: Dr. Krishnapal Singh Sisodia

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MS612.1	Understand the basics of topological vector spaces, finite dimensional spaces and quotient spaces with its properties	Understand
MS612.2	Understand the significance of fundamental theorems of Functional analysis	Understand
MS612.3	Apply the fundamental theorem to obtain some results	Apply
MS612.4	Understand the Normed spaces, Lp-spaces, Hilbert spaces and its properties	Understand
MS612.5	Apply the properties of Normed spaces, Hilbert spaces.	Apply
MS612.6	Evaluate Stone Weierstrass theorem and fixed point theorems	Evaluate

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02/9/20

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School of Science

Course Outcomes

Course Name: Advanced Linear Algebra

Course Code: MS 611

Year: M.A./M.Sc. II

Semester: Autumn

Faculty Name: Dr. Krishnapal Singh Sisodia

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MS611.1	Remember the Vector spaces, Subspaces, Quotient spaces, linear dependence of vectors, isomorphism and Inner product spaces	Remember
MS611.2	Understand the Linear transformation and functional, its Kernel and Range, self adjoint operators, bilinear and quadratic forms	Understand
MS611.3	Evaluate the transpose of linear transformation, linear span, basis and dimension of vector spaces	Evaluate
MS611.4	Determine the rank, nullity, matrix of linear transformation, Eigen values, Eigen vectors, matrix of unitary and orthogonal operators, matrix factorization	Apply
MS611.5	Analyse the norm of a vector, orthogonality of vectors, minimal polynomial, block matrices	Analyse
MS611.6	Create dual spaces, dual basis, bidual spaces, annihilators, Jordan canonical form	Create

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School of Science

Course Outcomes

Course Name: General Topology

Course Code: MS 531

Year: M.A./M.Sc. I

Semester: Autumn

Faculty Name: Dr. Krishnapal Singh Sisodia

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MS531.1	Remember the definitions and properties of metric space, topological space, compact space, connected spaces, Housdorff space, completely regular and completely normal space	Remember
MS531.2	Understand the convergence, completeness, continuity, compactness and connectedness	Understand
MS531.3	Evaluate the weak topologies, base, sub base and components of the spaces	Evaluate
MS531.4	Evaluate the Tychonoff theorem, Baire's theorem, Urysohn's lemma and Tietze extension theorem	Evaluate
MS531.5	Determine the Weierstrass approximation theorem and Stone Weierstrass theorems	Apply
MS531.6	Analyse the Stone-cech compactification, imbedding theorems	Analyse

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School of Liberal Arts and Sciences

Course Outcomes

Course Name: Advanced Abstract Algebra

Course Code: MS 512

Year: M.Sc. I

Semester: Spring

Faculty Name: Dr. Krishnapal Singh Sisodia

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MS512.1	Understand the fundamentals properties of abstract algebra (Groups and its various results)	Understand
MS512.2	Understand Homomorphism, Isomorphism and Automorphism with its fundamental properties	Understand
MS512.3	Apply fundamental properties to determine some important theorems of abstract algebra	Apply
MS512.4	Generate the modules of groups: rings, integral domains, Euclidean domain, polynomial rings, fields etc.	Create
MS512.5	Generate the various extensions of fields	Create
MS512.6	Determine the fundamental theorem of Galois theory	Apply

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Course Outcomes

Course Name: Vector Calculus

Course Code: MS 341

Year: B.Sc. III (Mathematics H.)

Semester: Autumn

Faculty Name: Dr. Krishnapal Singh Sisodia

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MS341.1	Remember the formulae and properties of scalar and vector products, differentiation and integration of vector functions	Remember
MS341.2	Understand the gradient, divergence and curl	Understand
MS341.3	Evaluate the angle between the vectors, flux, directional derivative and conservative field	Evaluate
MS341.4	Evaluate the line, surface and volume integrals	Evaluate
MS341.5	Determine the velocity, acceleration, surface area and volume	Apply
MS341.6	Analyse the perpendicularity and co-linearity of vectors, Green's, Stoke's and Gauss divergence theorems	Analyse

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Course Outcomes

Course Name: Linear Algebra

Course Code: MS 211

Year: B.Sc. II

Semester: Autumn

Faculty Name: Dr. Krishnapal Singh Sisodia

CO Number	**Course Outcome statement** At the completion of the course, student will be able to	**Taxonomy Level**
MS211.1	Remember the Vector spaces, Subspaces, Quotient spaces, linear dependence of vectors and Inner product spaces	Remember
MS211.2	Understand the Linear transformation and its Kernel and Range	Understand
MS211.3	Evaluate the linear span, basis and dimension of vector spaces	Evaluate
MS211.4	Determine the rank, nullity and matrix of linear transformation	Apply
MS211.5	Analyse the norm of a vector, orthogonality of vectors	Analyse
MS211.6	Create dual spaces, dual basis, bidual spaces and annihilator	Create

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Course Outcomes

Course Name: Abstract Algebra

Course Code: MS 112

Year: B.Sc. I

Semester: Spring

Faculty Name: Dr. Krishnapal Singh Sisodia

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MS112.1	Understand the algebraic structure, groups and its various types.	Understand
MS112.2	Evaluate the subgroups, normal subgroups, normalizer of an element and centre of a group.	Evaluate
MS112.3	Evaluate some results of homomorphisms and isomorphisms	Evaluate
MS112.4	Determine the fundamental theorem of homomorphism and Cayley's theorem	Apply
MS112.5	Understand the permutations, its types and group of permutations	Understand
MS112.6	Determine the even, odd, cyclic permutations and some results	Apply

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02/09/20

MODY UNIVERSITY

School of Liberal Arts and Science

Course Outcomes

Course Name: Gender Justice and Law

Course Code: LF 100

Year: 2019-2020

Semester: Autumn

Faculty Name: Megha Middha

CO Number	Course Outcome Statement At the completion of the course, student will be able to understand	Taxanomy Level
LF 100.1	They have understanding about the historical development of Position of women in Vedic, Post Vedic and Medieval Period	Remember
LF 100.2	They are able to know the various rights and duties as enshrined under the Constitution of India.	Understand
LF 100.3	Students have a brief idea of the various criminal laws regulating and protecting rights of women (the provisions of Cr.P.C and IPC), wherein they understand the aspects of arrest of women, rape, abduction etc.	Apply
LF 100.4	They are able to differentiate between status of women and its progress post independence.	Analyze
LF 100.5	They are able to understand and analyse rationale behind the need of Protection of woman against Domestic Violence Act,2005 and Dowry (Prohibition) Act, 1960 and the trafficking of women through the understanding of Immoral Traffic (Prevention) Act,1956	Evaluate
LF 100.6	They develop the understanding of Role of Statutory Bodies- National Commission for Women, State Commission of women, free legal aid for women, the laws relating to prevention of child marriage and Indecent Representation of Women (Prohibition) Act, 1986. Also able to create the Law assignments and projects.	Create

Megha Middha

Signature of the Faculty

School of Science/ School of Management Studies

Course Outcomes

Course Name: Application Software Lab

Course Code: CA141

Year: 2019-20

Semester: Spring

Faculty Name: Sonal Shukla

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CA141.1	Understand Computer Basic concepts and types of software	Understand
CA141.2	Applicability of MS-Word in real world Problems like writing a paragraph, Data Sorting, Bullets Numbers Word art, Fonts etc.	Apply
CA141.3	Applicability of MS-Word like mail merge to send a common letter writing	Create
CA141.4	Implementing MS Excel formula and applying like average , Sum, filters,	Create
CA141.5	Implementing MS Excel relative addressing and Absolute addressing.	Apply
CA141.6	Design Seminar presentation	Create

9/3/20

Sonal Shukla
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School of Engineering and Technology (SET)
Lakshmangarh (Sikar), Rajasthan 332 311, India
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Course Outcome

Course Name: Computer Fundamentals & Information Technology
Course Code: CA 111
Credit Hours: 3
Semester, Year: Autumn, I
Branch: B.Sc.
Prerequisite: NIL

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
CA 111.1	Understand the fundamental concepts of computer and structure of computer in various generations	Remember
CA 111.2	Familiarize with various components of computer and input/ output devices	Understand
CA 111.3	Understand and implement the concept of various number systems and their arithmetic and various data coding standards	Apply
CA 111.4	Understand and classifying between the types of programming language, software and operating system	Evaluate
CA 111.5	Learn the working of computer network and web communication	Understand

Ajay Kumar

MODY UNIVERSITY
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School of Business

Course Outcomes

Course Name: International Economics - II

Course Code: EM 304

Year: 2019-20

Semester: Spring

Faculty Name: Dr. Surendra Rajpurohit

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
EM304.1	Understand how exchange rates, interest rates and capital movements between currencies are determined within different institutional settings for monetary policy	Understand
EM304.2	Explain how a country's current account balance is determined, or, how capital movements between countries are determined	Understand
EM304.3	Evaluate how shocks emanating abroad or in the foreign exchange market affect output, employment, inflation and interest rates	Evaluate
EM304.4	Analyze the merits of different exchange rate systems (fixed versus flexible)	Analyze
EM304.5	Analyze the effects of various macroeconomic events on the future time path of the economy	Analyze
EM304.6	Apply how current and future events may influence the exchange rate through expectations	Apply

Signature of the faculty

(Dr. Surendra Rajpurohit)

S. Singh

7-3-2020

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SCHOOL OF BUSINESS

... Nation Building through Women Leadership

Course Name : Monetary Economics I
Course Code : EM 371
Year : III
Semester : V
Faculty Name : Kshitiz Jangir

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
EM 371.1	Understand the various concepts of Game theory	Understand
EM 371.2	Evaluate the concept of Nash Equilibrium, prisoner dilemma	Evaluate
EM 371.3	Understand the concept of Oligopoly	Understand
EM 371.4	Understand the various models of oligopoly	Evaluate
EM 371.5	Understand the concepts of General Equilibrium and welfare economics	Understand
EM 371.6	Evaluate Pareto optimality and Arrow's impossibility theorem	Evaluate

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School of Business

Course Outcomes

Course Name: **Macro Economics III**

Course Code: EM 372

Year: III Year

Semester: VISemester

Faculty Name: Dr. Rajesh Sharma

At the end of the course, the student will be able to:

CO	CO statement	Taxonomy
EM 372.1	Describe the macroeconomic developments related to the field economic growth	Analyze
EM 372.2	Identify the role of latest macroeconomic theories in the field of macroeconomics	Evaluate
EM 372.3	Describe various growth theories and their relevance in the modern world	Understand
EM 372.4	Determine and identify the various factors responsible for the trade cycle.	Remember
EM 372.5	Determine the role of monetary and fiscal policy for solving the economic fluctuations	Apply
EM 372.6	Identify the advantages and disadvantages of various theories and policies and suggest a write policy	Create

Dr. Rajesh Sharma

Faculty Signature

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SCHOOL OF BUSINESS

...Nation-building Through Women Leadership

Course Outcomes

EM 303 International Economics - I

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
EM303.1	Explain the importance of international trade and various theories related to International Trade	Understand
EM303.2	Analyze the impact of international trade on Economic Growth and overall welfare of the different stakeholders	Analyze
EM303.3	Evaluate the impact of international trade on Economic Growth and overall welfare of the different stakeholders	Evaluate
EM303.4	Apply the various theories of international trade to justify the different kinds of economic policies	Apply
EM303.5	Explain the importance of WTO and various kinds of economic integration	Understand
EM303.6	Analyze the different kinds of trade restrictions and the impact of the same on the economic welfare	Analyze

10-12-2019

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School of Liberal Arts/ School of Science

Course Outcomes

Course Name: The Bhagavad-Gita

Course Code: BG111

Year: 2019-20

Semester: Spring

Faculty Name: Dr. Rajiv Kumar Mishra

CO Number	Course Outcome statement At the completion of the course, student will be able to-	Taxonomy Level
BG111.1	Understand the nomenclature of the word Bhagavad-Gita & Background of the Mahabharat war.	Understand
BG111.2	Solve the problem related to battlefield of life.	Apply
BG111.3	Clarify the hierarchy of senses, Manas, Buddhi and Atman.	Analyze
BG111.4	Discuss the modes of Prakriti and their impact on the mind.	Understand
BG111.5	Illustrate the nature of conflict and Causal factors-Ignorance, Indriya & Mind.	Apply
BG111.6	Recommend the importance of knowledge.	Evaluate

Signature of the faculty

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School of Liberal Arts and Sciences

Course Outcomes

Course Name: Spanish I

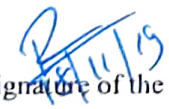
Course Code: SL 221

Year: 2019-20

Semester: Autumn

Faculty Name: Rishi Kumar

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
SL 221.1	Will be able to write and ask about self and have knowledge of numbers and gender in Spanish language.	Remember
SL 221.2	Will be able to know and use the three types of regular verbs in Spanish and make simple sentences.	Understand
SL 221.3	Will be able to describe class, room and his surrounding and make comparative and superlative sentences.	Apply
SL 221.4	Will be able to write simple paragraphs on topics like, family.	Apply
SL 221.5	Will be able to ask and tell time and be able to talk about day-to-day activity.	Remember
SL 221.6	Will be able to describe surrounding using prepositions of place and other vocabulary.	Remember



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School of Liberal Arts and Sciences

Course Outcomes

Course Name: Spanish II

Course Code: SL 222

Year: 2019-20

Semester: Spring

Faculty Name: Rishi Kumar

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
SL 222.1	use irregular and reflexive verbs.	Analyse
SL 222.2	list and recall nouns and adjectives related to physical description.	Remember
SL 222.3	compose an individual's description.	Create
SL 222.4	interpret and apply the likes, dislikes and self-information.	Evaluate
SL 222.5	describe, discuss and understand about Hispanic Countries	Understand
SL 222.6	compose short compositions on the given topic	Apply

Signature of the faculty

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School of Liberal Arts and Sciences

Course Outcomes

Course Name: **Japanese - I**

Course Code: **JL 221**

Year: 2019-20

Semester: Autumn

Faculty Name: Dr. Ashok Singh Rathore

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
JL 221.1	The Student will able to introduce himself and others, greet each other, understand the pronunciation and understand the origin and nature of Japanese Language	Understand
JL 221.2	The Students will able to identify the difference between 3 scripts, and understand radicals of Japanese script as well as able to read and write Hiragana script	Evaluate
JL 221.3	Student s will fluent in some Japanese Vocabulary like as Counting, Family names, birds and animals name, fruits and vegetables, colors name months name, numbers, days of the week, parts of the body	Remember
JL 221.4	Students will be able to indicate things, places, persons and places. Student can ask confirmatory questions about existence of noun	Apply
JL 221.5	Students will able to express the sentences related to the existence of living being and nonliving being at some Places and can ask questions related to existences	Create
JL 221.6	Students will able to use the particles related to the repetition of object I very next sentence, action at some place, relationship between two nouns, connectivity between two nouns and also able to use suffixes and related to Nationalities, Languages, respective way of saying some one's name, plural of many person	Analyse

11.11.2019

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Course Outcomes

Course Name: **Japanese II**

Course Code: **JL 222**

Year: 2019-20

Semester: Spring

Faculty Name: Dr. Ashok Singh Rathore

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
JL 222.1	Students are able to understand various cultural and lifestyle related phenomenon of Japan like, furin, sunddare, semi, mugicha, uchiwa, lucky charm. Takayama, Japanese bath etc.	Understand
JL 222.2	Students are able to express sentences related to quality of the noun in past and non-past tense too, two adjectives for a noun etc.	Evaluate
JL 222.3	Students are able to convert verbs in past and express sentences related to past tense, also able to use some polite forms and Particles like as 'o' 'e' 'ni'.	Apply
JL 222.4	Students able to express essential Japanese expressions for daily use and use of noun with number and "counters"	Rember
JL 222.5	Students are able to do Translation from Japanese to English and English to Japanese of basic level. Students also able to Reads lessons, poem, short dialogue useful for daily conversation	Creat
JL 222.6	Students are able to Solve short unseen passages and practice advance 'kanji' and Students ability of Listening a conversation related to daily life will enriched	Analysis

Ashok 07.02.2020

Signature of the faculty

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Course Outcomes

Course Name: German-I

Course Code: GL 221

Year: 2019-20

Semester: Autumn

Faculty Name: Vinay Kumar Tiwari

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
GL 221.1	Remember German Alphabet system and pronunciation of vowels and consonants, Months, Days and name of the countries in German and English, parts of the body and colors.	Remember
GL 221.2	Apply Greeting words at the opportune occasions (which greeting phrases to use at particular situation), learning the hidden patterns in the counting of German number system , Writing and speaking time in German in formal and informal ways.	Apply
GL 221.3	Understand the system of articles of (definite and indefinite articles) and Noun and their genders (masculine, feminine and neutral), Number of nouns, Introduction of regular and irregular verbs. Conjugation of regular and irregular verbs, Understand cases (nominative, accusative and dative) Nominative and Accusative sentences. Negative articles, negative sentences with 'nicht and kein',	Understand
GL 221.4	Understand Personal and possessive pronouns in Nominative, Akkusative and Dative Cases, understand interrogative pronouns and construction of interrogative sentences with the help of interrogative pronouns and the verb at the first position, Understand Separable verbs: its Pronunciation, conjugation and uses in simple & complex sentences.	Understand
GL 221.5	Apply modal verbs its conjugation and their uses in present	Apply

	tense, Apply Present Tense in Daily use such as writing daily routine in Present Tense, Akkusative, Dative and Changeable prepositions in sentences effectively	
GL 221.6	Construct sentences about one's Introduction and others in German by using Present Tense and correcting the wrong sentences (semantically and syntactically) rewriting the sentences by changing the word order, Translation from German to English and Vice-versa.	Create

Signature of the faculty

Vinay Kumar Tiwari

MODY UNIVERSITY
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Course Outcomes

Course Name: German-II

Course Code: GL 222

Year: 2019-20

Semester: Spring

Faculty Name: Vinay Kumar Tiwari

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
GL 222.1	Create Interrogative (With the help of Interrogative Pronouns and Helping Verbs), Negative and Imperative Sentences & Composite words such as wovon, woraus, womit etc. in German,	Create
GL 222.2	Understand the Dative Case and related sentences and their importance in German language and conjugation of irregular verbs, Understand Personal, Possessive, Reflexive Pronouns and Reflexive Verbs, Understand Personal, Possessive, Reflexive Pronouns and Reflexive Verbs.	Understand
GL 222.3	Apply Accusative, Dative and Changeable Prepositions in German sentences.	Apply
GL 222.4	Understand Genitive Case and its sentence structure in respect of possessive pronouns and definite & indefinite pronouns, cracking the meaning of important words from the paragraphs.	Understand
GL 222.5	Apply Perfekt Tense in Daily use such as "What have you done on last Sunday, writing daily routine in Perfekt Sentences, and describing what have you done in your summer vacation) and use *Perfekt Tense* and its helping verbs in flawless manner	Apply
GL 222.6	Create small messages and paragraphs about general topics and translating them into German and English.	Create

Signature of the faculty

Vinay Kumar Tiwari

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LAKSHMANGARH - RAJASTHAN
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School of Liberal Arts & Sciences (SLAS)
Lakshmangarh (Sikar), Rajasthan 332 311, India
Ph. No.: (1573) 225001-12 • Fax: (01573) 225041
email: dean.sos@modyuniversity.ac.in • www.modyuniversity.ac.in

Course Outcome

Course Name: Letter Writing, Composition, Culture and Civilization-II
Course Code: FR 222
Credit Hours: 03
Semester, Year: Spring , 2019-2020
Branch: B.A. / B.A. (Hons.) French II Year
Prerequisite: Interest in the culture, History and Administration of France

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
FR 222.1	To apply Simple translation, applied translation.	Understand
FR 222.2	Skills and techniques in translation.	Apply
FR 222.3	Writing resume, application, Letter writing (Commercial Letters)	Evaluate
FR 222.4	Report writing (formal and informal).	Create
FR 222.5	Translation of passage from French to English and English to French.	Understand
FR 222.6	History of France (19th & 20th century).	Remember

Srivastava
21/04/20

Faculty Name: Amit Kumar Srivastava

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School of Liberal Arts & Sciences (SLAS)
Lakshmangarh (Sikar), Rajasthan 332 311, India
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Course Outcome

Course Name: Letter Writing, Composition, Culture and Civilization-I
Course Code: FR 221
Credit Hours: 03
Semester, Year: Autumn 2019-2020
Branch: B.A. / B.A. (Hons.) French II Year
Prerequisite: Interest in the culture, History and Administration of France

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
FR 221.1	To understand the Current important French personalities and events in France and modernity in the current context.	Understand
FR 221.2	To apply the Function of national and regional institution of France.	Apply
FR 221.3	To evaluate the culture and civilisation of France on topics like boundary and geography of France.	Evaluate
FR 221.4	Understand historical monuments, important cities, rivers of France.	Create
FR 221.5	Evaluate the different eras of French literature,	Understand
FR 221.6	Create small paragraphs, Letter writing, dialogues about day to day situations of common importance and happenings.	Remember

Signature of the faculty

Faculty Name: Amit Kumar Srivastava 19/11/19

MODY UNIVERSITY
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School of Liberal Arts & Sciences

Course Outcomes

Course Name: **Comprehension, Grammar and Translation-II**

Course Code: **FR 212**

Year: **First**

Semester: **Spring**

Faculty Name: **Dr. V.K. Singh**

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FR 212.1	The student will get acquainted with possessive pronouns in French.	Remember
FR 212.2	The student will learn about gender and number of adjectives.	Remember
FR 212.3	The student will learn subjunctive in French.	Understand
FR 212.4	The student will make comparative degree of various parts of speech in French.	Apply
FR 212.5	The student will know how to use past perfect and conditional in French.	Remember
FR 212.6	The student will learn the difference between the past participle and the infinitive forms.	Apply

Signature of the faculty

MODY UNIVERSITY
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School of Liberal Arts & Sciences

Course Outcomes

Course Name: **Comprehension, Grammar and Translation-I**

Course Code: **FR 211**

Year: **Second**

Semester: **Autumn**

Faculty Name: **Dr. V.K. Singh**

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FR 211.1	The student will get acquainted with the near future tense, interrogation and a couple of parts of speech.	Remember
FR 211.2	The student will learn about recent past, preposition and imperative sentences.	Remember
FR 211.3	The student will conjugate verbs in future tense and make conditional sentences.	Understand
FR 211.4	The student will gain knowledge of past tense and various types of pronoun in French.	Apply
FR 211.5	The student will know French food and business related to selling things.	Remember
FR 211.6	The student will learn the ways to form sentences in their interrogative and negative forms too.	Apply

Signature of the faculty

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Course Outcome

Course Name: Written Expression - II
Course Code: FR 122
Credit Hours: 03
Semester, Year: 2019-20
Branch: B.A. / B.A. (Hons.) French I Year
Prerequisite: Interest in the culture, history and administration of France

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
FR 122.1	Understand the regional administration of France, its old tradition and modernity in the current context.	Understand
FR 122.2	Apply their knowledge and skill in filling up an identification form and in writing a postcard in French	Apply
FR 122.3	To evaluate political, cultural and economical life styles of cities in France and Study of south-west and north-east regions of France.	Evaluate
FR 122.4	Understand the socio professional relation portraits of France.	Understand
FR 122.5	Evaluate the different eras of French literature, some of the famous writers of France and study their works.	Evaluate
FR 122.6	Create small situational dialogues about day to day situations of common importance and happenings.	Create

Srivastava
2/09/20

Faculty Name: Amit Kumar Srivastava

MODY UNIVERSITY
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School of Liberal Arts and Sciences

Course Outcomes

Course Name: **Written Expression-I**

Course Code: **FR 121**

Year: First

Semester: Autumn 2019-20

Faculty Name: Mr. Amit Srivastava

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
FR 121.1	To understand the Greeting someone in formal and informal situation, Knowledge of etiquettes ,conversation ,Introducing oneself / speaking of oneself,	Understand
FR 121.2	The student will know French Introducing someone/ describing a person	Apply
FR 121.3	To evaluate the Fixing an appointment over the phone, Expressing one's agreement and disagreement.	Evaluate
FR 121.4	To Understand how to Describing about one's daily activities, Expressing one's agreement and disagreement.	Understand
FR 121.5	To create the Seeking clarification on something. Asking and giving information, Describing an action	Create
FR 121.6	To Study of monuments and different public places, Making hypotheses, Solution to problem.	Remember

Signature of the faculty 12/11/19

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Course Outcomes

Course Name: **Grammar and Composition-II**

Course Code: **FR 112**

Year: **First**

Semester: **Spring**

Faculty Name: **Dr. V.K. Singh**

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FR 112.1	The student will get acquainted with the near future tense, interrogation and a couple of parts of speech.	Remember
FR 112.2	The student will learn about recent past, preposition and imperative sentences.	Remember
FR 112.3	The student will conjugate verbs in future tense and make conditional sentences.	Understand
FR 112.4	The student will gain knowledge of past tense and various types of pronoun in French.	Apply
FR 112.5	The student will know French food and business related to selling things.	Remember
FR 112.6	The student will learn the ways to form sentences in their interrogative and negative forms too.	Apply

Signature of the faculty

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Course Outcomes

Course Name: **Grammar and Composition-I**

Course Code: **FR 111**

Year: **First**

Semester: **Autumn 19-20**

Faculty Name: **Dr. V.K. Singh**

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FR 111.1	The student will have a working knowledge of definite articles.	Remember
FR 111.2	The student will be conversant with the French verbs and their conjugation	Remember
FR 111.3	The student will be able to form questions on their own	Understand
FR 111.4	The student will have knowledge of pronouns and adjectives in French	Apply
FR 111.5	The student will have working knowledge of reflexive verbs in French	Remember
FR 111.6	The student will be conversant with the groups of French verbs rules for their conjugation	Apply

Signature of the faculty

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Course Outcomes

Course Name: **French-I (Certificate of Proficiency- French)**

Course Code: **FL 221**

Year: **P.G.I / U.G. II**

Semester: **Autumn**

Faculty Name: **Dr. V.K. Singh**

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FL 221.1	The student will have learnt French words for cardinal numbers, nationalities etc.	Apply
FL 221.2	The student will have learnt French words for the days of the week, months etc.	Create
FL 221.3	The student will have learnt French ordinal numbers, terms of class/office use etc.	Apply
FL 221.4	The student will have acquired knowledge of French words for time, weather, daily routine etc.	Apply
FL 221.5	The student will know French words related to various aspects of French culture	Understand
FL 221.6	The student will have acquired knowledge of French words for various walks of life, colours, food, family, etc.	Remember

Signature of the faculty 18/11/19

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Course Outcomes

Course Name: **French-II (Certificate of Proficiency- French)**

Course Code: **FL 222**

Year: **P.G.I / U.G. II & III**

Semester: **Spring**

Faculty Name: **Mr. Amit Srivastava**

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FL 222.1	The student will have learnt Les articles contractés and preposition. seasons, weather and ordinal numbers and cardinal numbers.	Apply
FL 222.2	The student will have learnt the conjugation of verbs in 'ir'-ending 'finir', er –ending verb visiter in present tense in affirmative, negative and interrogative form.	Create
FL 222.3	The student will learn about daily life conversation in different situations.	Apply
FL 222.4	The student will learn about Conjugation of regular and irregular verbs : acheter , chanter, choisir , grandir, aller, dire etc Introduction of imparfait, future proche, passé récent, future simple.	Apply
FL 222.5	The student will learn about Demonstrative adjective and the description of a classroom dialogue and dictation.	Understand

FL 222.6	The student will learn the formation of verbs in (affirmative, negative and interrogative), Possessive adjectives , family description. France: Regions, famous monuments, gastronomy and beverages.	Remember

2/09/20

Signature of the faculty

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Course Outcomes

Course Name: Programing Lab in C++

Course Code: FS 333

Year: 2020-21

Semester: Spring

Faculty Name: Dr. Rishi Kumar Pandey

CO Number	Course Outcome statement At the completion of the course, student will be able to…	Taxonomy Level
FS 333.1	Understand the types and Declaration and Pointers, Arrays, Structures, Expression, Statement, Function, Classes, Derived, Classes	Remember
FS 333.2	Explain the properties related to Pointers, Arrays, Structures, Expression, Statement, Function, Classes, Derived, Classes.	Understand
FS 333.3	Solve the problems related Pointers, Arrays, Structures, Expression, Statement, Function, Classes, Derived, Classes.	Apply
FS 333.4	Analyse the problem related to Pointers, Arrays, Structures, Expression, Statement, Function, Classes, Derived, Classes.	Analyse
FS 333.5	Compare all the aspects of the Pointers, Arrays, Structures, Expression, Statement, Function, Classes, Derived, Classes.	Evaluate
FS 333.6	May integrate the fundamentals as Pointers, Arrays, Structures, Expression, Statement, Function, Classes, Derived, Classes.	Create

Rishi
07/02/2021

Dr. Rishi Kumar Pandey

Signature of the faculty

MODY UNIVERSITY
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Course Outcomes

Course Name: Ancient Indian Science

Course Code: PH641

Year: II

Semester: III

Faculty Name: Dr Manoj Mishra

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PH641-1	**Reference of Science in Vedas**	Remember
PH641-2	**SAGE Scientists and Their Achievements:** Baudhayan, Aryabhatta,Brahmgupta, Bhaskaracharya , varahamihira, Mahaviracharya, Acharya Kanad, Varahamihira, Nagarjuna, Acharya Bhardwaj, SusrutaAtreya, Acharya Charak, Patanjali. **Scientists of modern era:** C. V. Raman (1888-1970), S. Ramanujan (1887-1920), J. C. Bose (1858-1937), H. J. Bhabha (1909-1966), V. A. Sarabhai (1919-1970), H. G. Khorana (1922-2011), Harish Chandra (1923 - 1983), S. N. Bose (1894 - 1974)), S. S. Bhatnagar (1894 –1955), Visvesvaraya (1860 –1962)[, MeghnadSaha (1893–1956) etc.	Remember
PH641-3	**Discoveries in Astronomy and Physics of Ancient India:** Earth's rotation, Gravity, Speed of light, Lunar Eclipse, Planetary motion, Mechanics, Matter, Magnetism and Optics	Understand
PH641-4	**Vedic Mathematics**: Algebra & Arithmetic, Geometry, Trigonometry	Understand
PH641-5	**Chemical and Biological advancement of Ancient India**: Chemistry (Distillation, Caustic Alkali, Cell and Explosives), Metallurgy (Crucible, Furnaces, Air Blowers, Metal Powder, Binder), Botany, Medicine and Pharmacology.	Understand

Signature of the faculty

12/4/19.

MODY UNIVERSITY
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Course Outcomes

Course Name: **Instrumentation and Characterization Techniques**

Course Code: PH622

Year: II

Semester: IV

Faculty Name: Dr. Manoj Mishra

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PH622-1	Understanding the physics and instrumentation of various imaging techniques used in sample analysis by optical microscopy,	Understand
PH622-2	Application of above instrument in sample analysis.	Apply
PH622-3	Understanding the physics and instrumentation of various imaging techniques used in sample analysis by scanning electron microscopy, transmission electron microscopy, scanning tunneling microscopy, atomic force microscopy.	Understand
PH622-4	Application of above instrument in sample analysis.	Apply
PH622-5	Understanding the physics and instrumentation of various methods for Qualitative and Quantitative analysis (X-Rays powder diffraction, Thermal analysis methods, Spectroscopic techniques, ESR and NMR).	Understand
PH622-6	Application of above instrument in sample analysis.	Apply

Signature of the faculty 10/3/20

MODY UNIVERSITY
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Course Outcomes

Course Name: Digital Electronics

Course Code: PH621

Year: II

Semester: III

Faculty Name: Dr Manoj Mishra

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PH641-1	**Binary Number System:** Binary number system and other codes, binary arithmetic series and parallel processing of bites, logic of the addition operation, logic fundamentals, Boolean theorems, synthesis of Boolean functions, Karnaugh diagram.	Remember
PH641-2	**Basics of Digital Electronics**: Basics and derived gates: OR gate, AND gate, NOT gate, NAND gate, NOR gate, XOR gate, Boolean identities and logic circuits using gates, Boolean algebra- DeMorgans Theorems, Sum of products and product of sums expressions, Minterm, Maxterm, SOP and POS from truth tables.	Understand
PH641-3	**Combinational and Sequential Circuits:** Parity checker and generator, Half adders, full adders, Binary adders, decoders, multiplexer, demultiplexer, encoders, ROM and applications,	Understand
PH641-4	Digital comparator, Flip-Flops- RS, JK, master slave JK, T-type and D-type flip flops, Shift-register and applications, Asynchronous counters and applications, A/D and D/A converters; Microprocessor and microcontroller basics.	Understand
PH641-5	**Digital Circuits with MOS:** MOSFET, MOS invertors- static inverter, dynamic inverter, two phase inverter, MOS NAND gates, NOR gates, complementary MOSFET technology, CMOS inverter, CMOS NOR gates and NAND gates, MOS shift register and RAM.	Understand

Signature of the faculty

12/11/19

MODY UNIVERSITY
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School of Liberal Arts/ School of Science

Course Outcomes

Course Name: Programming Language Laboratory

Course Code: **PH571**

Year: I

Semester: I

Faculty Name: Dr. Manoj Mishra

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PH571.1	WAP on basic structures of Matlab	Remember
PH571.2	WAP on decision making if…else and switch..case	Understand
PH571.3	WAP on plots and related structures	Understand
PH571.4	WAP on Solving roots and curve fitting	Understand
PH571.5	WAP on linear equations and integrations	Understand
PH571.6	WAP on solving differential equations and its application in Chua circuit and SHO.	Apply

Signature of the faculty

12/11/19

MODY UNIVERSITY
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School of Liberal Arts/ School of Science

Course Outcomes

Course Name: **General Physics and Optics Laboratory**

Course Code: **PH561**

Year: I

Semester: I

Faculty Name: Dr. Manoj Mishra

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PH561.1	Formula used of experiment (Exp 1 – Exp 8)	Remember
PH561.2	Apparatus required and theory of experiment (Exp 1 – Exp 8)	Understand
PH561.3	Circuit formation and taking observation of experiment (Exp 1 – Exp 8)	Apply
PH561.4	Calculations of experiment (Exp 1 – Exp 8)	Analyze
PH561.5	Result of experiment (Exp 1 – Exp 8)	Evaluate
PH561.6	precautions of experiment (Exp 1 – Exp 8)	Apply

Signature of the faculty 12/11/19

List of experiments

Exp	Objective
1	Michelson interferometer https://vlab.amrita.edu/?sub=1&brch=189&sim=1106&cnt=1
2	Frank-Heartz experiments https://vlab.amrita.edu/index.php?sub=1&brch=195&sim=355&cnt=1
3	Photoelectric effect https://vlab.amrita.edu/index.php?sub=1&brch=195&sim=840&cnt=1
4	Planks constant https://vlab.amrita.edu/index.php?sub=1&brch=195&sim=547&cnt=4
5	Millikan's oil drop experiment https://vlab.amrita.edu/index.php?sub=1&brch=195&sim=357&cnt=1
6	Hall effect experiment:- Determination of charge carrier density https://vlab.amrita.edu/index.php?sub=1&brch=282&sim=879&cnt=1
7.	B-H Curve https://vlab.amrita.edu/index.php?sub=1&brch=282&sim=1507&cnt=1
8.	Resistivity by Four Probe Method https://vlab.amrita.edu/index.php?sub=1&brch=282&sim=1512&cnt=1

MODY UNIVERSITY
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School of Liberal Arts and Sciences

Course Outcomes

Course Name: **Computational Physics Laboratory**

Course Code: PH562

Year: I

Semester: II

Faculty Name: Dr. Manoj Mishra

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PH562.1	Theory of numerical methods for the programs (1-5)	Understand
PH562.2	Write the program on the basis of theory (1-5)	Apply
PH562.3	Solve the various problems using programs (1-5)	Evaluate
PH562.4	Theory of numerical methods for the programs (6-9)	Understand
PH562.5	Write the program on the basis of theory (6-9)	Apply
PH562.6	Solve the various problems using programs (6-9)	Evaluate

16/3/20

MODY UNIVERSITY
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School of Liberal Arts/ School of Science

Course Outcomes

Course Name: **Computational Physics**

Course Code: **PH 542**

Year: II

Semester: IV

Faculty Name: Dr. Manoj Mishra

CO Number	**Course Outcome statement** At the completion of the course, student will be able to	**Taxonomy Level**
PH452-1	Understanding methods of Errors analysis and curve fittings of numerical and discrete data.	Understand
PH452-2	Understanding methods of the Numerical solution of algebraic and transcendental equations: Understanding methods of the Numerical solution of Linear systems of equations.	Understand
PH452-3	Understanding methods of Interpolation of discreet data.	Understand
PH452-4	Understanding methods of numerical differentiation and integration of discreet data.	Understand
PH452-5	Understanding methods of numerical solutions of Ordinary differential equations of discreet data. Understanding methods of numerical solutions of Partial differential equations of discreet data.	Understand
PH452-6	Application of previous methods in data analysis	Apply

Signature of the faculty 12/5/15

MODY UNIVERSITY
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Course Outcomes

Course Name: Quantum Mechanics

Course Code: PH541

Year: 2019-2020

Semester: I

Faculty Name: Dr. Manoj Mishra

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PH541.1	To understand the origin of Quantum mechanics and its developments. Construction of quantum mechanical operators for other dynamical variables from those of position and momentum.	Understand
PH541.2	To study eigen values and eigen vectors and their applications of different operators. The fundamental expansion postulate, representation of state vector and operators.	Apply
PH541.3	To analysis the solution of Schrodinger equation for simple problems and harmonic oscillator problem by operator method. Separation of Schrodinger equation in radial and angular parts, solution of radial equation for hydrogen atom, 3-d square well potential, parity of wave function, parity operator.	Analysis
PH541.4	To evaluate generalized angular momentum, raising and lowering operators, matrices for J_2, J_x, J_y, J_z operators, Pauli spin matrices.	Evaluate

Signature of the faculty

12/11/19

MODY UNIVERSITY
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School of Liberal Arts/ School of Science

Course Outcomes

Course Name: **Condensed Matter Physics**

Course Code: PH532

Year: I

Semester: II

Faculty Name: Dr. Manoj Mishra

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PH532-1	**Elastic Constants:** Binding in solids; Stress components, stiffness constant, elastic constants, elastic waves in crystals.	Remember
PH532-2	**Lattice Dynamics and Thermal Properties:** Rigorous treatment of lattice vibrations, normal modes; Density of states, thermodynamic properties of crystal, anharmonic effects, thermal expansion.	Understand
PH532-3	**Energy Band Theory**: Electrons in a periodic potential: Bloch theorem, Nearly free electron model; tight binding method; Semiconductor Crystals, Band theory of pure and doped semiconductors; elementary idea of semiconductor superlattices.	Apply
PH532-4	**Transport Theory:** Electronic transport from classical kinetic theory; Introduction to Boltzmann transport equation; electrical and thermal conductivity of metals; thermoelectric effects; Hall effect and magnetoresistance.	Apply
PH532-5	**Dielectric Properties of Materials:** Polarization mechanisms, Dielectric function from oscillator strength, Clausius-Mosotti relation; piezo, pyro- and ferro-electricity.	Understand
PH532-6	**Liquid Crystals:** Thermotropic liquid crystals, Lyotropic liquid crystals, long range order and order parameter, Various phases of liquid crystals, Effects of electric and magnetic field and applications, Physics of liquid crystal devices.	Apply

Signature of the faculty

16/3/20

MODY UNIVERSITY
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Course Outcomes

Course Name: **Classical Electrodynamics and Plasma Physics**

Course Code: PH531

Year: I

Semester: I

Faculty Name: Dr. M Mishra

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PH531-1	**Electrostatics:** Electric potential, Poisson and Laplace's equations. Boundary value problems, Uniqueness theorems, Green"stheorem.Method of images, Method of separation of variables (Cartesian Coordinates, Spherical and Cylindrical Coordinates), Multipole expansion.	Remember
PH531-2	**Electromagnetic Waves:** Maxwell's equations, Boundary conditions, Wave equation and its complex notation, Electromagnetic waves in vacuum, Electromagnetic waves in non-conducting and linear media, Electromagnetic waves in linear conducting media. Poynting theorem, Reflection, refraction and polarization of electromagnetic waves,	Understand
PH531-3	**Waveguides and Cavities:** Metallic boundary conditions, Electromagnetic waves confined to hallow metallic pipe, TE, TM and TEM modes, TE and TM modes in rectangular waveguides, Bessel's function, TE and TM modes in cylindrical waveguides, Dielectric waveguides, TE and TM modes in rectangular and cylindrical Resonant cavities.	Apply
PH531-4	**Potential, Fields and Radiations:** Scalar and vector potentials, Gauge transformation, Coulomb and Lorentz gauge, Retarded potential, Lienard-Wiechert potentials, Fields due to moving charge, Power radiated by an accelerated charge and angular distribution, Bremstrahlung Cerenkov and Synchrotron radiations.	Understand
PH531-5	**Relativistic Electrodynamics:** Four vectors, Lorentz transformation in terms of Four vectors, Lorentz transformation matrix, Transformation of electromagnetic fields, Field Tensor, Dual field strength tensor, Maxwell's equations in terms of strength tensors,	Understand
PH531-6	**Plasma Physics:** Elementary Concepts: Plasma Oscillations, Debye Shielding, Plasma Parameters, Magnetoplasma, Plasma Confinement, Motion of charged particles in electric and magnetic fields, Adiabatic Invariants Wave in Plasma: Polarisation, Phase Velocity, Group Velocity, Cut-offs, Resonance for Electromagnetic Wave Propagating Parallel and Perpendicular to the Magnetic Field Propagation at Finite Angle.	Apply

Signature of the faculty

MODY UNIVERSITY
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Course Outcomes

Course Name: Computational Physics Laboratory

Course Code: **PH353**

Year: III

Semester: V

Faculty Name: Dr. Manoj Mishra

CO Number	**Course Outcome statement** At the completion of the course, student will be able to	**Taxonomy Level**
PH571.1	WAP on basic structures of Matlab and Plots	Remember
PH571.2	WAP on decision making if…else and switch..case and uise of script files	Understand
PH571.3	WAP on Solving roots, curve fitting, linear equations, integrations, differential equations	Apply
PH571.4	Writing basic structure of article and book in Latex	Remember
PH571.5	Use of tables, figures and mathematical equations in Latex	Understand
PH571.6	Use of bibliography and presentation in Latex	Apply

Signature of the faculty

12/11/13

MODY UNIVERSITY
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Course Outcomes

Course Name: **Computational Physics**

Course Code: PH343

Year: III

Semester: V

Faculty Name: Dr. Manoj Mishra

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PH343-1	**Introduction to MATLAB Programming:** Basics of MATLAB programming, Array operations in MATLAB, Loops and execution control, Working with files: Scripts and Functions, Plotting and program output	Understand
PH343-2	**Application of Matlab in solving problems of Physics**: Matrix operations, Numerical Differentiation and Integration, Linear Equations, Regression and Interpolation, Ordinary Differential Equations (ODE).	Apply
PH343-3	**Scientific word processing: Introduction to LaTeX:** TeX/LaTeX word processor, preparing a basic LaTeX file, Document classes, Preparing an input file for LaTeX, Compiling LaTeX File, LaTeX tags for creating different environments, Defining LaTeX commands and environments, Changing the type style, Symbols from other languages.	Remember
PH343-4	**Equation representation:** Formulae and equations, Figures and other floating bodies, Lining in columns- Tabbing and tabular environment, Generating table of contents, bibliography and citation, List making environments, Fonts, Picture environment and colors, errors.	Understand
PH343-5	Apply CO 3&4 for writing thesis and article.	Apply

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Course Outcomes

Course Name: **Physics Laboratory V**

Course Code: **PH 332**

Year: III

Semester: V

Faculty Name: Dr. Manoj Mishra

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PH332-1	Formula used of experiment (Exp 1 – Exp 8)	Remember
PH332-2	Apparatus required and theory of experiment (Exp 1 – Exp 8)	Understand
PH332-3	Circuit formation and taking observation of experiment (Exp 1 – Exp 8)	Apply
PH332-4	Calculations of experiment (Exp 1 – Exp 8)	Analyze
PH332-5	Result of experiment (Exp 1 – Exp 8)	Evaluate
PH332-6	precautions of experiment (Exp 1 – Exp 8)	Apply

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List of experiments

Exp	Objective
Exp. 1	To show that the impedance of a coil of resistance R_L and self inductance L varies with frequency as $Z_{coil} = (R_L^2 + 4\pi^2 f^2 L^2)^{1/2}$ and to measure the self inductance.
Exp. 2	To study the LDR (Opto Electronics Device) characteristics.
Exp. 3	To study the Light Emitting Diode LED (Opto Electronics Device) characteristics.
Exp. 4	To study the Photo Transistor (Opto Electronics Device) characteristics.
Exp. 5	To study of material constant, temperaturecoefficient of current and planck's constant.
Exp. 6	To study the Photo Diode (Opto Electronics Device) characteristics
Exp. 7	To determine the temperature coefficient of resistance of copper wire
Exp. 8	To Determine unknown Capacitance using De Sauty's bridge bridge

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Course Outcomes

Course Name: **Solid State Physics and Devices**

Course Code: PH312

Year: III

Semester: VI

Faculty Name: Dr. Manoj Mishra

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PH312-1	Understand the basis terminology required for crystal: Crystal structure, periodicity, lattices and bases, fundamental translational vectors, unit cell, Wigner-Seitz cell, allowed rotations lattice types, lattice planes, Bravais lattices, Miller indices for direction and planes, Use and application of X-ray in solid state physics : Lau theory of X-ray diffraction, X-ray diffraction, Bragg's law	Understand
PH312-2	Understand formation of Crystal and associate energy: Bonding: Potential between a pair of atoms, Lennard Jones potential, concept of cohesive energy, covalent, Van der Waals, ionic and metallic Crystals. Understand reciprocal lattice, and Brillouin Zones	Understand
PH312-3	Study some Common crystal structures (NaCl, CsCl, ZnS and Diamond) to compare basic terminology, Numerical problems to know typical values of various parameters. Numerical problems to know typical values of various parameters.	Apply
PH312-4	Understand the thermal property and associated theories of it: (Thermal properties: lattice vibrations, Vibrational modes of continuous medium, Debye's model: lattice specific heat, Vibrations of one-dimensional monoatomic and diatomic chain, Phonons, Density of states.) Understand the **Electronic Properties of solids:** (Free electron gas, Electrons in periodic potential, Kronig Penny model, Bloch theorem, energy bands, metals, insulators and semiconductors, Motion of electron in electric and magnetic fields)	Understand
PH312-5	Numerical problems to know typical values of various parameters.	Apply

PH312-6	**Understanding the physics of some Solid State Devices:** Hall Effect, Fermi surface, Temperature dependence on electron and holes, Shotckey and metal oxide devices. **Understand the Magnetic Properties of materials:** (Magnetic moment, magnetic susceptibility, Dia-, Para and Ferromagnetism, Ferromagnetic ferromagnetic domains)	Understand

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Course Outcomes

Course Name: **Semiconductor Physics and Electronics**

Course Code: **PH211**

Year: II

Semester: III

Faculty Name: Dr. Manoj Mishra

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PH211-1	**Semiconductor Physics:** Intrinsic and extrinsic semiconductors, P-N junction diode, Diode equation, depletion width and potential barrier, junction capacitance, I-V characteristics, Rectifier, ripple factors, filter circuits, efficiency and percentage regulation, LED, photodiode.	Remember
PH211-2	**Electronics** : Transistor circuits, Input, Output characteristics and CB and CE modes, DC load line, operating point, biasing and bias-stabilization circuits: Transistor as an amplifier (CE mode) and frequency response.	Apply
PH211-3	**Hybrid parameter:** Analysis of transistor amplifier (with and without load) using h- parameters, simplified hybrid model, brief idea about hybrid model Single stage amplifier in CE,CB and CC modes. RC coupled CE amplifier and its frequency response, tuned voltage amplifier. Power amplifier classification, distortion and efficiency, push pull amplifier	Understand
PH211-4	**Feedback in amplifiers**: Positive and negative feedback, effect of negative feedback on the characteristics of different types of amplifiers, voltage and current series feedback circuits. Field effect transistors, I-V Characteristics of JFET and MOSFET, FET biasing, FET as an amplifier.	Apply
PH211-5	**Digital Electronics:** Diode and transistor equivalent circuits of basic and derived gates, Universal gates, X-OR and equivalence. Simplification of Boolean expressions using K- maps. Sequential circuits, Flip flops.	Understand
PH211-6		

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Course Outcomes

Course Name: **Physics Laboratory II**

Course Code: **PH142**

Year: I

Semester: II

Faculty Name: Dr. Manoj Mishra

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PH211-1	Formula used of experiment (Exp 1 – Exp 8)	Remember
PH211-2	Apparatus required and theory of experiment (Exp 1 – Exp 8)	Understand
PH211-3	Circuit formation and taking observation of experiment (Exp 1 – Exp 8)	Apply
PH211-4	Calculations of experiment (Exp 1 – Exp 8)	Analyze
PH211-5	Result of experiment (Exp 1 – Exp 8)	Evaluate
PH211-6	precautions of experiment (Exp 1 – Exp 8)	Apply

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Course Outcomes

Course Name: **Concepts of Physics in FS**

Course Code: FS102

Year: I

Semester: II

Faculty Name: Dr. Manoj Mishra

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FS102.1	**Motion:**Definition of motion, position and displacement, average velocity, average speed, acceleration, acceleration of freely falling body, projectile motion, uniform circular motion, relative motion in one dimension and two dimension.	Understand
FS102.2	**Force:** Newtonian mechanics, Newton's Ist law, force, mass, Newton's II law, Newton's III law, friction, properties of friction, drag force and terminal speed.	Understand
FS102.3	**Kinetic Energy and Work**: Energy, kinetic energy, work, work done by gravitational force, work done by spring force, power, work and potential energy, work done on system by external force, conservation of energy.	Apply
FS102.4	**Rotation**: The rotational variable, rotation with constant angular acceleration, relating linear and angular variables, kinetic energy of rotation.	Understand
FS102.5	**Gravitation:** Newton's law of gravitation, gravitation near earth's surface, gravitation inside the earth.	Understand
FS102.6	**Waves:** Types of waves, transverse and longitudinal waves, wavelength and frequency, speed of traveling wave, the wave equation, sound waves, speed of sound, intensity and sound level, the Doppler effect, shock waves.	Understand

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Course Outcomes

Course Name: Basics of Forensic Science

Course Code: BT 182

Year: I 2019-20

Semester: II

Faculty Name: Ms. Barkha Yadav

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BT182.1	Learn the principles of Forensic Science.	Understand, Remember
BT182.2	Understand how types of injuries can tell about the weapon used to cause it and also its medicolegal aspects.	Understand
BT182.3	Gather knowledge about explosives and different parts of firearm.	Understand
BT182.4	Understand fundamental principles of fingerprinting and classification of fingerprints.	Understand
BT182.5	Learn development fingerprint for personal identification.	Understand, Apply
BT182.6	Gather knowledge about DNA fingerprinting and its applications.	Understand
BT182.7	Learn about cybercrime and cyber security.	Understand

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Course Outcomes

Course Name: SENSITIVE SCIENCES

Course Code: BT262

Year: Second 2019-20

Semester: Four

Faculty Name: Mr. Ulhas Gondhali

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BT262.1	Learn origin and history of fingerprint	Remember
BT262.2	Understand the principles of fingerprinting and significance in criminal investigation	Understand
BT262.3	Learn and identify types of fingerprints and fingerprints characteristics	Apply
BT262.4	Learn to Collect, lift and preserve fingerprints	Apply
BT262.5	Learn classification of fingerprints	Apply
BT262.6	Comprehend various physical and chemical fingerprint development techniques	Apply
BT262.7	Learn photography of fingerprints and presentation of fingerprints in court	Apply
BT262.8	Learn history and development and understand working of AFIS	Remember
BT262.9	Comprehend biometric classification systems and biometric traits	Understand

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Course Outcomes

Course Name: FINGERPRINTING and FORENSIC PHOTOGRAPHY

Course Code: FS 601

Year: Second 2019-20

Semester: Third

Faculty Name: Mr. Ulhas Gondhali

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FS601.1	Understand working of camera, its parts and photographic techniques	Understand
FS601.2	Develop film negatives and photographic linkage	Analyze
FS601.3	Understand the principles of fingerprinting, significance in criminal investigation and classification	Understand
FS601.4	Classify fingerprint impression using various methods of classification	Apply
FS601.5	Understand working of AFIS and its functions	Understand
FS601.6	Develop fingerprints with physical and chemical developmental techniques	Analyze

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Course Outcomes

Course Name: Criminal Law-IPC/CrPC/IEA

Course Code: FS 131

Year: First 2019-20

Semester: First

Faculty Name: Mr. Ulhas Gondhali

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FS131.1	Learn functioning of Judicial system	Understand
FS131.2	Understand IPC and sec. on crime against human and its punishments	Understand
FS131.3	Understand IPC and sec. on crime against property and its punishments	Understand
FS131.4	Understand CrPC and sec. understand police powers and related sec.	Understand
FS131.5	Understand CrPC and sec. understand court powers and related sec.	Understand
FS131.6	Understand IEA and various sec. on admissibility of evidence in court	Understand

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Course Outcomes

Course Name: **Crime Scene Investigation**

Course Code: **FS 132**

Year: **First** 20/9-20

Semester: **Spring**

Faculty Name: **Siddharth Dangi**

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FS132.1	Explain nature and problems of crime scene	Understand
FS132.2	Categorize various types of crime scenes	Analyse
FS132.3	Create crime scene field notes, sketches and photographs	Create
FS132.4	Use procedures of crime scene reconstruction	Apply
FS132.5	Interpret various types of physical evidences found at a crime scene	Understand
FS132.6	Analyse scene of crime and evidences	Analyse

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Course Outcomes

Course Name: TRACE EVIDENCE ANALYSIS

Course Code: FS 141

Year: 2019-20

Semester: ~~Spring~~ Autumn

Faculty Name: Ms. Barkha Yadav

CO Number	Course Outcome statement At the completion of the course, student will be able to…	Taxonomy Level
FS 141.1	Understand the biological fluids, chemicals, poisons, firearms, fingerprints and tool marks	Understand and Remember
FS 141.2	Understand the search and seizure, privilege against self – incrimination, subpoenas deposition, Miranda rights, condemned of court, FIR, types of cognizable and non-cognizable offences; Expert's Testimony	Understand and Remember
FS 141.3	Understand the Composition of glass fractures and Examination of soil	Understand and Remember
FS 141.4	Understand the paint chemistry, forensic examination of household paints and automobile paints	Understand and Remember
FS 141.5	Understand the Importance, nature, location, collection, evaluation of Hair samples	Understand and Remember
FS 141.6	Understand the Classification of fibers	Understand and Remember

11/11/19

Ms. Barkha Yadav

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Course Outcomes

Course Name: Crime Scene Investigation Practical

Course Code: FS 142

Year: I 2019-20

Semester: II

Faculty Name: Ms. Barkha Yadav

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
142.1	Perform crime scene searching.	Understand, Apply
142.2	Document the indoor and outdoor crime scene using Baseline method.	Understand, Apply
142.3	Document the indoor and outdoor crime scene using Triangulation method.	Understand, Apply
142.4	Perform polar co-ordinate method for sketching of outdoor crime Scene.	Understand, Apply
142.5	Collection and packaging of different types of evidence.	Understand, Apply

7/8/20

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Course Outcomes

Course Name: DNA PROFILING

Course Code: FS 231

Year: 2019-20

Semester: Spring

Faculty Name: Mr. Ulhas Gondhali

CO Number	Course Outcome statement At the completion of the course, student will be able to…	Taxonomy Level
FS 231.1	Understand the importance of DNA fingerprinting in forensic science, structure of DNA, RNA	Understand
FS 231.2	Understand collection and types of evidences for DNA fingerprinting, different types of DNA isolation techniques	Understand and apply
FS 231.3	Understand the Electrophoresis and Southern blotting	Understand and Remember
FS 231.4	Understand Polymerase Chain Reaction	Understand and Remember
FS 231.5	Understand VNTR and RFLP, STRs and Genotyping	Understand and Remember
FS 231.6	Understand the Practical application of DNA Fingerprinting	Understand and Remember

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Mr. Ulhas Gondhali

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Course Outcomes

Course Name: DNA Profiling

Course Code: FS 231

Year: Second 2019-20

Semester: Third

Faculty Name: Mr. Ulhas Gondhali

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FS231.1	Understand the DNA fingerprint, and related macro molecules	Understand
FS231.2	Extract DNA from various biological samples	Apply
FS231.3	Understand principles and working of various DNA fingerprinting steps	Understand
FS231.4	Learn various techniques of DNA fingerprinting	Understand
FS231.5	Apply techniques of DNA fingerprinting to paternity testing and personal identification	Apply
FS231.6	Learn various aspects of DNA fingerprinting	Understand

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Course Outcomes

Course Name: Forensic Toxicology

Course Code: FS 232

Year: II 2019-20

Semester: IV

Faculty Name: Ms. Barkha Yadav

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FS232.1	Gather the knowledge about classification of poison, dosage and drug of abuse.	Remember
FS232.2	Learn the metabolism of ethyl alcohol and its effect on circulatory system.	Understand
FS232.3	Understand the use of breath test instrument, and analysis of blood for alcohol.	Understand, Apply
FS232.4	Learn about Arsenic and Mercury poisoning, its detection and its medicolegal aspects.	Understand, Apply
FS.232.5	Gather the knowledge about classification of Barbiturates, its effects and detection.	Understand, Apply
FS232.6	Understand the nature, poisoning and medicolegal aspects of various pesticides.	Understand, Remenber
FS232.7	Learn how to extract and detect pesticides from viscera.	Understand, Apply
FS232.8	Understand the nature, symptoms and medicolegal aspects of various volatile poisons.	Understand
FS232.9	Gather knowledge about some vegetable and animal poison.	Understand, Remember
FS232.10	Learn how to extract and detect active components of poisonous plant.	Understand, Apply

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Course Outcomes

Course Name: DNA PROFILING LAB

Course Code: FS 241

Year: 2019-20

Semester: Spring

Faculty Name: Mr. Ulhas Gondhali

CO Number	Course Outcome statement At the completion of the course, student will be able to…	Taxonomy Level
FS 241.1	Understand the isolation of Plasmid and Genomic DNA	Remember, Understand, Apply
FS 241.2	Understand the Restriction Digestion	Remember, Understand, Apply
FS 241.3	Understand the DNA Fragment Size Determination	Remember, Understand, Apply
FS 241.4	Understand the PCR Demonstration and Principal	Remember, Understand, Apply
FS 241.5	Understand Isolation of Microbes through Soil, Air and Water Samples	Remember, Understand, Apply
FS 241.6	Understand the DNA Estimation through Spectroscopy	Remember, Understand, Apply

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Mr. Ulhas Gondhali

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Course Outcomes

Course Name: DNA PROFILING LAB

Course Code: FS 241

Year: Second 2019-20

Semester: Third

Faculty Name: Mr. Ulhas Gondhali

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FS241.1	Isolation of Plasmid and Genomic DNA	Apply
FS241.2	Restriction Digestion of the extracted DNA sapmle	Apply
FS241.3	Able To determine DNA Fragment Size	Apply
FS241.4	Understand working of PCR and its Principal	Understand
FS241.5	Estimate DNA through Spectroscopy	Apply
FS241.6	Isolate Microbes through Soil, Air and Water Samples	Apply

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Course Outcomes

Course Name: Forensic Toxicology Practical

Course Code: FS 242

Year: II 2019-20

Semester: IV

Faculty Name: Ms. Barkha Yadav

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
242.1	Examine the presence of metallic poison.	Understand, Apply
242.2	Analysis of volatile and non-volatile.	Understand, Apply
242.3	Perform TLC of Insecticides, Barbiturates and other drugs.	Understand, Apply
242.4	Analysis of vegetable poisons.	Understand, Apply
242.5	Perform TLC of different kinds of ink samples.	Understand, Apply
242.6	Lab test for hallucinogens.	Understand, Apply

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Course Outcomes

Course Name: FINGERPRINT SCIENCE

Course Code: FS 252

Year: Second 20/9-20

Semester: Four

Faculty Name: Mr. Ulhas Gondhali

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FS252.1	Learn origin and history of fingerprint	Remember
FS252.2	Understand the principles of fingerprinting and significance in criminal investigation	Understand
FS252.3	Learn and identify types of fingerprints and fingerprints characteristics	Apply
FS252.4	Learn to Collect, lift and preserve fingerprints	Apply
FS252.5	Learn classification of fingerprints	Apply
FS252.6	Comprehend various physical and chemical fingerprint development techniques	Apply
FS252.7	Learn photography of fingerprints and presentation of fingerprints in court	Apply
FS252.8	Learn history and development and understand working of AFIS	Remember
FS252.9	Comprehend biometric classification systems and biometric traits	Understand

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Course Outcomes

Course Name: FINGERPRINT SCIENCE PRACTICALS

Course Code: FS 262

Year: Second 2019-20

Semester: Four

Faculty Name: Mr. Ulhas Gondhali

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FS262.1	Learn collection of Contact and Roll fingerprints	Apply
FS262.2	Comprehend analysis of class and individual characteristics of fingerprints	Apply
FS262.3	Learn ridge tracing and ridge counting in fingerprints	Apply
FS262.4	Learn identification of fingerprints by minutiae examination	Apply
FS262.5	Learn different techniques for collection of fingerprints	Apply
FS262.6	Learn fingerprint print development by Iodine and Ninhydrine methods	Apply

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Course Outcomes

Course Name: DIGITAL FORENSIC PRACTICAL

Course Code: FS 313

Year: 2019-20

Semester: Spring

Faculty Name: Mr. Siddharth Dangi

CO Number	**Course Outcome statement** At the completion of the course, student will be able to…	**Taxonomy Level**
FS 371.1	Understand the Disk Forensics and Data Recovery	Understand and Remember
FS 371.2	Understand the Determination of species of origin, Ring test, Immunoelectrophoresis	Understand and Remember
FS 371.3	Understand the Anti-forensic techniques: TrueCrypt, Shredder	Understand and Remember
FS 371.4	Understand the Steganography	Understand and Remember
FS 371.5	Understand the Network monitors	Understand and Remember
FS 371.6	Understand the Registry Forensics	Understand and Remember

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Mr. Siddharth Dangi

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Course Outcomes

Course Name: **Multimedia Forensics**

Course Code: **FS 314**

Year: **Third** 20/9-20

Semester: **Spring**

Faculty Name: **Siddharth Dangi**

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FS314.1	Explain multimedia, various types of multimedia and Multimedia Forensics	Understand
FS314.2	Discuss steganography, digital watermarking and digital fingerprinting	Understand
FS314.3	Outline the major domains of speech and language processing	Analyse
FS314.4	Assess speech samples based on speech recognition protocols and techniques	Evaluate
FS314.5	Apply the concepts of grammar, morphology, lexicon, syntax, semantics and pragmatics for English Language in Speech recognition	Apply
FS314.6	Discuss the automated aspects of speech and language processing	Understand

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Course Outcomes

Course Name: **Questioned Document Examination**

Course Code: **FS 324**

Year: **Third** 2019-20

Semester: **Spring**

Faculty Name: **Siddharth Dangi**

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FS324.1	Categorize forensic documents	Analyse
FS324.2	Explain history and terminologies related to Questioned Document Examination, physiology of handwriting and the process of identification	Understand
FS324.3	Compare handwriting exemplars	Evaluate
FS324.4	Examine various questioned documents cases	Apply
FS324.5	Describe forgery and signature verification	Understand
FS324.6	Apply instrumentation in Questioned Document Examination	Apply

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Course Outcomes

Course Name: **FS 334**

Course Code: **Questioned Document Examination in Lab**

Year: **Third** 20/9-20

Semester: **Spring**

Faculty Name: **Siddharth Dangi**

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FS334.1	Examine handwriting characteristics	Apply
FS334.2	Compare handwriting exemplars	Evaluate
FS334.3	Use forensic stylistics for author identification	Apply
FS334.4	Determine forgery in signature exemplars and forgery/counterfeiting in questioned documents	Apply
FS334.5	Analyse ink samples from various writing instruments	Analyse
FS334.6	Justify opinions for the cases related to Questioned Document Examination	Evaluate

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Course Outcomes

Course Name: FORENSIC BALLISTICS AND TOOL MARKS

Course Code: FS344

Year: Third 2019-20

Semester: Sixth

Faculty Name: Mr. Ulhas Gondhali

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FS344.1	Develop understanding of components and working of firearms	Understand
FS344.2	Analyze fired ammunition for firearm linkage	Analyze
FS344.3	Learn and analyze appearance of gunshot wound	Analyze
FS344.4	Comprehend reconstruction of crime scene	Apply
FS344.5	Develop understanding of analysis of firearm injuries	Understand
FS344.6	Learn and analyze tool marks and its comparison techniques	Analyze
FS344.7	Understand techniques of impression evidences examination and interpretation	Understand

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Course Outcomes

Course Name: FORENSIC SEROLOGY and BLOOD SPLATTER ANALYSIS

Course Code: FS 371

Year: 2019-20

Semester: ~~Spring~~ Autumn

Faculty Name: Ms. Barkha Yadav

CO Number	Course Outcome statement At the completion of the course, student will be able to…	Taxonomy Level
FS 371.1	Understand the nature of blood, collection, preservation and packing of blood evidence and tests used in Blood Analysis	Understand and Remember
FS 371.2	Understand the Determination of species of origin, Ring test, Immunoelectrophoresis	Understand and Remember
FS 371.3	Understand the Characteristics of liquid blood and blood droplets under force	Understand and Remember
FS 371.4	Understand the Basic tenets of bloodstain pattern analysis	Understand and Remember
FS 371.5	Understand the Projected and Impact Spatter stains	Understand and Remember
FS 371.6	Understand the area of origin determinations. determine the impact angle, determine directionality	Understand and Remember

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Ms. Barkha Yadav

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Course Outcomes

Course Name: Instrumentation in Forensic Science

Course Code: Fs 372

Year: III 2019-20

Semester: VI

Faculty Name: Dr. Neha Verma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
372.1	Gather knowledge about various spectroscopic method, its instrumentation and application.	Understand
372.2	Learn about centrifugation its type and application.	Remember
372.3	Gather Knowledge about various microscopic technique.	Understand
372.4	Explain difference between light and electron microscope.	Remember, Understand
372.5	Learn about mass spectroscopy, correlation of mass spectra, Fourier transform mass spectrometry.	Understand
372.6	Understand instrumentation of inductively coupled plasma mass spectroscopy.	Understand

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Course Outcomes

Course Name: Instrumentation Practical

Course Code: FS 382

Year: III 2019-20

Semester: VI

Faculty Name: Dr. Neha Verma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
382.1	Perform practical's of stoichiometry.	Apply
382.2	Learn preparation of molal and molar solution.	Apply
382.3	Qualitative Analysis using UV-Visible Spectrometer.	Apply
382.4	Quantitative Analysis using UV-Visible Spectrometer.	Apply
382.5	Sample preparation for IR Spectrometer	Apply
382.6	IR spectrometer demonstration.	Remember

7/2/20

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MODY UNIVERSITY
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Course Outcomes

Course Name: WILDLIFE FORENSICS

Course Code: FS392

Year: Third 2019-20

Semester: Sixth

Faculty Name: Mr. Ulhas Gondhali

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FS392.1	develop understanding of wildlife crimes and endangered wildlife flora and fauna	Understand
FS392.2	Learn basics of Forensic Microbiology and Medicine	Understand
FS392.3	Comprehend the process of entomological investigation	Apply
FS392.4	Analyze the technique of estimation of postmortem interval from entomological analysis	Understand
FS392.5	Learn various types of botanical evidences and their applications in criminal investigation	Analyze
FS392.6	Comprehend examination of biological evidences and their application in criminal investigation	Analyze

7/12/20

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Course Outcomes

Course Name: CRIMINOLOGY, CRIMINAL LAW & POLICE ADMINISTERATION

Course Code: FS501

Year: 2019-20

Semester: Spring

Faculty Name: Ms Barkha Yadav

CO Number	Course Outcome statement At the completion of the course, student will be able to…	Taxonomy Level
FS501.1	Understand the concept of criminology and victimology, theories of crime causation, and classification of crimes	Remember, Understand
FS501.2	Understand the concept of juvenile delinquency and punishment	Remember, Understand
FS501.3	Understand the type of offences and Indian courts structure	Remember, Understand
FS501.4	Understand the NDPS Act, Food and Adulteration Act, Drugs and Cosmetic Act, Arms Act, Explosives Act.	Remember
FS501.5	Understand the police administration in India, the structure and role of Police in India	Remember, Understand
FS501.6	Understand the scope and development of criminal laws in India	Remember, Understand

7/12/20

Ms Barkha Yadav

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Course Outcomes

Course Name: ELEMENTS OF FORENSIC MEDICINE, ODONTOLOGY

Course Code: FS 502

Year: 2018-2019

Semester: II

Faculty Name: Dr. Anand S Lodha

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FS 502.1	Explain Forensic Medicine in details	Understand
FS 502.2	Apply principles of healing mechanisms and predict the Age of Wound or injuries	Apply
FS 502.3	Apply principles of Asphyxia and predict the Cause of death	Apply
FS 502.4	Explain Forensic odontologyin details	Understand
FS 502.5	Apply principles of odontology and predict the Age and Sex of the person	Apply
FS 502.6	Apply Knowledge of Forensic Medicine and Odontology for personal identification and cause/manner of death	Apply

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Course Outcomes

Course Name: Introduction to Forensic Science and Crime Scene Investigation

Course Code: FS511

Year: 2019-20

Semester: Spring

Faculty Name: Dr Anand lodha

CO Number	Course Outcome statement At the completion of the course, student will be able to…	Taxonomy Level
FS511.1	Understand the concept of crime, types, causes of crime, significance of physical evidences	Understand
FS511.2	Understand the concept of quality, quality system and management	Understand and apply
FS511.1	Understand the various methods of interrogation, ethical issues, and court testimony	Understand and apply
FS511.1	Understand analytical workflow in forensic science laboratories	Create and apply
FS511.1	Understand different divisions of forensic laboratories and case examination.	Remember

11/11/19

Dr Anand lodha

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Course Outcomes

Course Name: Instrumentation in Forensic Science

Course Code: FS 512

Year: I Semester: II 2019-20

Faculty Name: Dr. NehaVerma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
512.1	Gather knowledge about various chromatographic technique and its application.	Understand
512.2	Learn instrumentation and working of spectroscopic techniques.	Understand
512.3	Learn about centrifugation its type and application.	Understand
512.4	Gather Knowledge about various microscopic technique.	Remember, Understand
512.5	Learn about mass spectroscopy, correlation of mass spectra, Fourier transform mass spectrometry.	Understand
512.6	Understand Instrumentation of inductively coupled plasma mass spectroscopy.	Understand
512.7	Gather Knowledge aboutLaser Mass spectrometry, Fast Atom bombardment and liquid secondary Ion Mass spectrometry.	Understand

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Course Outcomes

Course Name: Forensic Physics and Trace Evidences

Course Code: FS 521T

Year: 2019-20

Semester: Spring

Faculty Name: Dr Anand lodha

CO Number	Course Outcome statement At the completion of the course, student will be able to…	Taxonomy Level
FS 521.1	Understand the soil as physical evidences and its forensic significance	Understand
FS 521.2	Understand types of glass and their composition, Forensic examination of glass fractures and its forensic significance	Understand and apply
FS 521.3	Understand the types of paint and their composition, macroscopic and microscopic studies and its forensic significance	Understand and apply
FS 521.4	Understand types of tool marks: compression marks, striated marks, combination of compression and striated marks and its forensic significance, forensic analysis	Create and apply
FS 521.5	Understand different method of making-cast, punch, engrave; methods of obliteration, method of restoration.	Remember and apply
FS 521.6	Understand the speaker identification and tape authentication and and its forensic significance	Understand and Remember

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Dr Anand lodha

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Course Outcomes

Course Name: ELEMENTS OF FORENSIC MEDICINE, ODONTOLOGY

Course Code: FS 502

Year: 2018-2019

Semester: II

Faculty Name: Dr. Anand S Lodha

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FS 502.1	Explain Forensic Medicine in details	Understand
FS 502.2	Apply principles of healing mechanisms and predict the Age of Wound or injuries	Apply
FS 502.3	Apply principles of Asphyxia and predict the Cause of death	Apply
FS 502.4	Explain Forensic odontology in details	Understand
FS 502.5	Apply principles of odontology and predict the Age and Sex of the person	Apply
FS 502.6	Apply Knowledge of Forensic Medicine and Odontology for personal identification and cause/manner of death	Apply

for 7/12/20

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Course Outcomes

Course Name: Introduction to Forensic Chemistry, Toxicology and Pharmacology

Course Code: FS 532

Year: I 2019-20

Semester: II

Faculty Name: Ms. Barkha Yadav

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FS532.1	Learn about types of cases and exhibits Forensic Chemistry division deals.	Understand
FS532.2	Gather knowledge about arson cases and analysis of petroleum products.	Understand, Apply
FS532.3	Learn the metabolism of ethyl alcohol and its effect on circulatory system.	Understand
FS532.4	Understand the use of breath test instrument, how it works its type and analysis of blood for alcohol.	Understand, Apply
FS532.5	Explain the differences between illicit and country made liquor.	
FS532.6	Define drug of abuse and drug doping, Narcotic drug and Psychotropic substances.	Remember
FS532.7	Understand designer drug their forensic examination , NDPS Act and Drug and Cosmetic Act.	Understand
FS532.8	Classify various types of poison, Action of poison, various factors modifying its action and Law related to poison.	Understand
FS532.9	Extract and isolate drugs viscera, tissue and body fluids.	Apply

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Course Outcomes

Course Name: Instrumentation in Forensic Science

Course Code: FS 512

Year: I 2019-20

Semester: II

Faculty Name: Dr. NehaVerma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
512.1	Gather knowledge about various chromatographic technique and its application.	Understand
512.2	Learn instrumentation and working of spectroscopic techniques.	Understand
512.3	Learn about centrifugation its type and application.	Understand
512.4	Gather Knowledge about various microscopic technique.	Remember, Understand
512.5	Learn about mass spectroscopy, correlation of mass spectra, Fourier transform mass spectrometry.	Understand
512.6	Understand Instrumentation of inductively coupled plasma mass spectroscopy.	Understand
512.7	Gather Knowledge aboutLaser Mass spectrometry, Fast Atom bombardment and liquid secondary Ion Mass spectrometry.	Understand

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MODY UNIVERSITY
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School of Sciences

Course Outcomes

Course Name: INTRODUCTION TO FORENSIC BIOTECHNOLOGY

Course Code: FS 542

Year: 2018-2019

Semester: II

Faculty Name: Dr. AnandLodha

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FS 542 .1	Explain in details Hair & Fiber	Understand
FS 542.2	Apply the knowledge of Forensic Botany and analyses the evidences	Apply
FS 542.3	Apply the knowledge of Forensic Anthropology for personal Identification	Apply
FS 542.4	Apply the knowledge of DNA for Personal identifications	Apply
FS 542.5	Explain the Blood and different body fluids, DNA, Anthropology	Understand
FS 542.6	Apply the knowledge of Immunology for Blood typing	Apply

7/3/20

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School of Liberal Arts/ School of Science

Course Outcomes

Course Name: FORENSIC PRACTICALS II

Course Code: FS 562

Year: 2018-2019

Semester: II

Faculty Name: Dr. AnandLodha

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FS 562.1	Apply the knowledge of Odontology for Personal Identification	Apply
FS 562.2	Evaluate the UV visible and IR spectrophotometer graph	Evaluate
FS 562.3	Apply the knowledge of Chromatography and perform the Paper and thin layer chromatography	Apply
FS 562.4	Apply the knowledge of Forensic Anthropology and Predict the Identity	Apply
FS 562.5	Apply the knowledge of Forensic Medicine for Autopsy	Apply
FS 562.6	Apply the knowledge of Forensic Chemistry for predict the graph and results of chromatography	Apply

7/2/20

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Course Outcomes

Course Name: **Introduction to Questioned Documents Examination**

Course Code: **FS 522**

Year: **First** 2019-20

Semester: **Spring**

Faculty Name: **Siddharth Dangi**

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FS522.1	Categorize forensic documents	Analyse
FS522.2	Explain history and terminologies related to Questioned Document Examination, physiology of handwriting and the process of identification	Understand
FS522.3	Compare handwriting exemplars	Evaluate
FS522.4	Infer cases involving forgeries, indentations, secret writing, impressions, photocopies, typewriting, printed matter, tampering, counterfeits, security documents and various questioned documents	Analyse
FS522.5	Determine age of document based on paper analysis, ink analysis and anachronistic features	Apply
FS522.6	Explain the concepts of Forensic Linguistics and Computer Forensics	Understand

for 7/2/20

Signature of the faculty

Course Outcomes

Course Name: DISASTER MANAGEMENT and VICTIM IDENTIFICATION

Course Code: FS552

Year: First 2019-20

Semester: Second

Faculty Name: Mr. UlhasGondhali

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FS552.1	Learn and understand characteristics and types of Disasters, Causes and effects	Understand
FS552.2	Learn responsibilities of different agencies and govt for disaster management	Remember
FS552.3	Learn and understand functioning of different technologies for disaster management	Remember
FS552.4	Understand the human behavior and psychological response during disaster	Understand
FS552.5	Learn and Understand onsite disaster site management process	Understand
FS552.6	Identification and application of various biometric characteristics for victim identification	Apply

for 7/2/20

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Course Outcomes

Course Name: **Introduction to Questioned Documents Examination**

Course Code: **FS 522**

Year: **First** 2019-20

Semester: **Spring**

Faculty Name: **Siddharth Dangi**

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FS522.1	Categorize forensic documents	Analyse
FS522.2	Explain history and terminologies related to Questioned Document Examination, physiology of handwriting and the process of identification	Understand
FS522.3	Compare handwriting exemplars	Evaluate
FS522.4	Infer cases involving forgeries, indentations, secret writing, impressions, photocopies, typewriting, printed matter, tampering, counterfeits, security documents and various questioned documents	Analyse
FS522.5	Determine age of document based on paper analysis, ink analysis and anachronistic features	Apply
FS522.6	Explain the concepts of Forensic Linguistics and Computer Forensics	Understand

7/2/20

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Course Outcomes

Course Name: Introduction to Forensic Chemistry, Toxicology and Pharmacology

Course Code: FS 532

Year: I 2019-20

Semester: II

Faculty Name: Ms. Barkha Yadav

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FS532.1	Learn about types of cases and exhibits Forensic Chemistry division deals.	Understand
FS532.2	Gather knowledge about arson cases and analysis of petroleum products.	Understand, Apply
FS532.3	Learn the metabolism of ethyl alcohol and its effect on circulatory system.	Understand
FS532.4	Understand the use of breath test instrument, how it works its type and analysis of blood for alcohol.	Understand, Apply
FS532.5	Explain the differences between illicit and country made liquor.	
FS532.6	Define drug of abuse and drug doping, Narcotic drug and Psychotropic substances.	Remember
FS532.7	Understand designer drug their forensic examination , NDPS Act and Drug and Cosmetic Act.	Understand
FS532.8	Classify various types of poison, Action of poison, various factors modifying its action and Law related to poison.	Understand
FS532.9	Extract and isolate drugs viscera, tissue and body fluids.	Apply

for 7/5/20

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Course Outcomes

Course Name: FORENSIC BALLISTICS

Course Code: FS 541

Year: 2019-20

Semester: Spring

Faculty Name: Mr. Ulhas Gondhali

CO Number	Course Outcome statement At the completion of the course, student will be able to…	Taxonomy Level
FS 541.1	Understand Firearms, Indian Arms Act, Characteristic features of the firearms, various types of modern firearms	Remember, Understand
FS 541.2	Understand the Classification and constructional features of different types of ammunitions	Remember, Understand
FS 541.3	Understand the Principles and practice of identification of firearms, different types of marks produced	Remember, Understand, Apply
FS 541.4	Understand the techniques for obtaining test material from various types of weapons and their linkage with fired ammunition, class and individual characteristics	Remember, Understand
FS 541.5	Understand the time of firing – different methods employed, and their limitations, stereo & comparison microscopy, automatic bullet and cartridge comparison system	Remember, Understand, Apply
FS 541.6	Understand the Explosive Act, nature and classification, composition and characteristics of explosives, pyrotechnics, IEDs, Explosion process and affects	Remember, Understand, Apply

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Mr. Ulhas Gondhali

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Course Outcomes

Course Name: FORENSIC BALLISTICS

Course Code: FS 541

Year: First 2019-20

Semester: First

Faculty Name: Mr. Ulhas Gondhali

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FS541.1	Develop understanding of components and working of firearms	Understand
FS541.2	Understand Ammunition its types and components	Understand
FS541.3	Analyze fired ammunition for firearm linkage Learn and analyze appearance of gunshot wound	Analyze
FS541.4	Develop understanding of analysis of firearm injuries and determine range of fire	Analyze
FS541.5	Develop understanding of Explosives and explosion process	Understand
FS541.6	Investigate explosive crime scenes	Analyze

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Course Outcomes

Course Name: DISASTER MANAGEMENT and VICTIM IDENTIFICATION

Course Code: FS552

Year: First 20/9-20

Semester: Second

Faculty Name: Mr. Ulhas Gondhali

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FS552.1	Learn and understand characteristics and types of Disasters, Causes and effects	Understand
FS552.2	Learn responsibilities of different agencies and govt for disaster management	Remember
FS552.3	Learn and understand functioning of different technologies for disaster management	Remember
FS552.4	Understand the human behavior and psychological response during disaster	Understand
FS552.5	Learn and Understand onsite disaster site management process	Understand
FS552.6	Identification and application of various biometric characteristics for victim identification	Apply

7/2/20

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Course Outcomes

Course Name: INTRODUCTION TO FORENSIC BIOTECHNOLOGY

Course Code: FS 542

Year: 2019-2020

Semester: II

Faculty Name: Dr. AnandLodha

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FS 542 .1	Explain in details Hair & Fiber	Understand
FS 542.2	Apply the knowledge of Forensic Botany and analyses the evidences	Apply
FS 542.3	Apply the knowledge of Forensic Anthropology for personal Identification	Apply
FS 542.4	Apply the knowledge of DNA for Personal identifications	Apply
FS 542.5	Explain the Blood and different body fluids, DNA, Anthropology	Understand
FS 542.6	Apply the knowledge of Immunology for Blood typing	Apply

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Course Outcomes

Course Name: Fingerprinting and Forensic Photography

Course Code: FS 601

Year: 2019-20

Semester: Spring

Faculty Name: Mr. Ulhas Gondhali

CO Number	Course Outcome statement At the completion of the course, student will be able to…	Taxonomy Level
FS 601.1	Understand the photography techniques, different types of cameras and lenses.	Understand
FS 601.2	Understand the process of photography and techniques of film development	Understand and apply
FS 601.3	Understand the historical aspects of fingerprint science, morphogenesis of friction ridge skin, types of fingerprints and surfaces	Understand and apply
FS 601.4	Understand the Henry's system of classification, Batley's Single Digit classification, NCIC; AFIS	Create and apply
FS 601.5	Understand different systems of biometric,	Remember
FS 601.6	Methods of lifting and developing latent fingerprints	Understand and apply

7/2/20

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Course Outcomes

Course Name: FORENSIC PRACTICALS II

Course Code: FS 562

Year: 2019-2020

Semester: II

Faculty Name: Dr. AnandLodha

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FS 562.1	Apply the knowledge of Odontology for Personal Identification	Apply
FS 562.2	Evaluate the UV visible and IR spectrophotometer graph	Evaluate
FS 562.3	Apply the knowledge of Chromatography and perform the Paper and thin layer chromatography	Apply
FS 562.4	Apply the knowledge of Forensic Anthropology and Predict the Identity	Apply
FS 562.5	Apply the knowledge of Forensic Medicine for Autopsy	Apply
FS 562.6	Apply the knowledge of Forensic Chemistry for predict the graph and results of chromatography	Apply

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Course Outcomes

Course Name: FORENSIC PRACTICAL-I

Course Code: FS 561

Year: 2019-20

Semester: Spring

Faculty Name: Dr. Anand Lodha

CO Number	Course Outcome statement At the completion of the course, student will be able to…	Taxonomy Level
FS 561.1	Examine physical properties of Soil	Understand and apply
FS 561.2	Examine physical properties of Glass	Understand and apply
FS 561.3	Examine physical properties of paints	Understand and apply
FS 561.4	Examine different cloth pieces from crime scene	Understand and apply
FS 561.5	Draw sketch of the Indoor and Outdoor Crime scene	Understand and apply
FS 561.6	Collect, pack and forward the trace evidences	Understand and apply

7/2/20

Dr. Anand Lodha

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Course Outcomes

Course Name: Forensic Practical's III

Course Code: FS 631

Year: Second

Semester: Third

Faculty Name: Mr. Ulhas Gondhali

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FS631.1	Capture photographic , Indoor and Outdoor crime scene photography	Apply
FS631.2	Collection and development of Fingerprint using various methods	Apply
FS631.3	Perform classification of fingerprints	Apply
FS631.4	Examine security features of documents	Apply
FS631.5	Analyze and compare audio/voice samples	Apply
FS631.6	Analyze and compare video samples	Apply

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Course Outcomes

Course Name: ADVANCED FORENSIC BIOLOGY & ANTHROPOLOGY

Course Code: FS671

Year: 2019-20

Semester: Spring

Faculty Name: Dr Anand Lodha

CO Number	**Course Outcome statement** At the completion of the course, student will be able to…	**Taxonomy Level**
FS671.1	Understand the wild life forensic and wild life protection act 1972	Remember, Understand
FS671.2	Understand the significance of forensic entomology and forensic microbiology	Remember, Understand
FS671.3	Understand the Identification of individuals from skeletal remains using somatometry, osteometry & craniometry	Remember, Understand
FS671.4	Understand the superimposition and facial reconstruction techniques.	Remember and apply
FS671.5	Understand the forensic taphonomy, forensic radiology and its significance	Remember, Understand
FS671.6	Understand the Postmortem changes in the body and determination of PMI	Remember, Understand, apply

7/8/20

Dr Anand Lodha

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Course Outcomes

Course Name: ADVANCED FORENSIC SEROLOGY & DNA PROFILING

Course Code: FS 681

Year: Second 2019-20

Semester: Third

Faculty Name: Mr. Ulhas Gondhali

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FS681.1	Characterize Blood as an evidence, its forms and techniques of identification	Analyze
FS681.2	Characterize Body fluids as an evidence, its forms and techniques of identification	Analyze
FS681.3	Determine species of origin from various body fluids	Apply
FS681.4	Develop an understanding of serological markers, its functions and applications	Understand
FS681.5	Understand DNA extraction and Profiling	Understand
FS681.6	Understand application, legality of DNA profiling	Understand

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Course Outcomes

Course Name: Forensic Practical IV B

Course Code: FS 691

Year: Second 2019-20

Semester: Third

Faculty Name: Mr. Ulhas Gondhali

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FS691.1	Perform various test for identification of biological fluids	Apply
FS691.2	Analyze and identify human bones	Analyze
FS691.3	Analyze other biological evidences	Analyze
FS691.4	Perform DNA extraction	Apply
FS691.5	Perform Quantification and Quantitation of DNA	Apply
FS691.6	Perform DNA profiling	Apply

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Course Outcomes

Course Name: CHEMISTRY, PHARMACOLOGY, TOXICOLOGY PRACTICAL

Course Code: FS 661

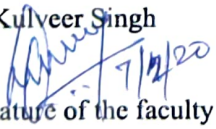
Year: 2019-20

Semester: Spring

Faculty Name: Dr. Kulveer Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to…	Taxonomy Level
FS 661.1	Define the nature of isolation, TLC and spot test for trace chemical evidence analysis	Remember
FS 661.2	Understand the classification, characterization of isolation, TLC techniques used in Forensic chemistry	Understand
FS 661.3	Apply the method of isolation, TLC for different toxicological exhibits such as drugs and poisons.	Apply
FS 661.4	Analyze the problem related to method of isolation, TLC for different toxicological exhibits such as drugs and poisons.	Analyse
FS 661.5	Evaluate the method of isolation, TLC for different toxicological exhibits such as drugs and poisons.	Evaluate
FS 661.6	May integrate the role of method of isolation, TLC for different Toxicological exhibits in criminal investigations	Create

Dr. Kulveer Singh



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Course Outcomes

Course Name: ADVANCED FORENSIC PHARMACOLOGY & TOXICOLOGY

Course Code: FS 661

Year: 2019-20

Semester: Spring

Faculty Name: Dr. Kulveer Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to…	Taxonomy Level
FS 651.1	Define the different aspects of Drug Pharmacology and the concept of Forensic toxicology and nature of the toxicological investigations undertaken in forensic laboratories.	Remember
FS 651.2	Explain the toxicological signs & symptoms of toxins and their pharmacological effect on the body when administered.	Understand
FS 651.3	Implement the knowledge of toxicology of drugs and poisons in various forensic toxicological samples.	Apply
FS 651.4	Analyses the Toxicology and medicolegal aspect of Insecticide, Animal Poisons, Asphyxiants and volatile poisons, Metallic -Non Metallic Poisons.	Analyze
FS 651.5	Compare the Forensic analysis of Insecticide, Animal Poisons, Asphyxiants and volatile poisons.	Evaluate
FS 651.6	Create a complete knowledge to all laboratory procedures for the examination of biological and nonbiological evidence containing unknown toxin through systematic analysis.	Create

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Course Outcomes

Course Name: ADVANCED FORENSIC CHEMISTRY

Course Code: FS 641

Year: 2019-20

Semester: Spring

Faculty Name: Dr. Kulveer Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to…	Taxonomy Level
FS 641.1	Define the nature and classification of explosives, petroleum products, insecticide.	Remember
FS 641.2	Understand the classification, characterization of explosives, petroleum products, arson. and	Understand
FS 641.3	Apply the method of searching, collecting, preserving of arson, petroleum products, explosive and toxicological exhibits.	Apply
FS 641.4	Analyze the physical, chemical and instrumental analysis of ignitors, petroleum products, explosive and toxicological exhibits	Analyse
FS 641.5	Evaluate the Expert testimony of Forensic Chemical examiner in court	Evaluate
FS 641.6	May integrate the role of ignitors, petroleum products, explosive and toxicological exhibits in criminal investigations	Create

for Dr. Kulveer Singh

7/12/20

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Course Outcomes

Course Name: STATISTICS & RESEARCH METHODOLOGY

Course Code: FS 551

Year: 2019-20

Semester: Spring

Faculty Name: Dr. Prashant Kumar Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to…	Taxonomy Level
FS 551.1	Define the concept of research, criteria of a good research, research process formulation, and research-related ethical issues.	Remember
FS 551.2	Explain the concept and Significance of sampling, its type used in research design.	Understand
FS 551.3	Analyse the various data collection methods and their application in different research design.	Apply
FS 551.4	Analyze the concept of various methods of central tendency and analyzing the data analysis-and hypothesis testing procedures in research.	Analyse
FS 551.5	Evaluate the Parametric and Nonparametric Statistics and their significance in research analysis	Evaluate
FS 551.6	Designing a research study from its inception to its report writing and its various components	Create

Dr. Prashant Kumar Singh

Signature of the faculty

MODY UNIVERSITY
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Course Outcomes

Course Name: **Introduction to Digital Forensics**

Course Code: FS 531

Year: 2019-2020

Semester: Autumn

Faculty Name: Prashant Kumar Singh

CO Number	**Course Outcome statement** At the completion of the course, student will be able to…	**Taxonomy Level**
FS 531.1	Understand Introduction to Digital Forensics, Classification, Definition and types of cybercrimes, electronic evidence and handling, electronic media, collection, searching and storage of electronic media, introduction to internet crimes, hacking and cracking, credit card and ATM frauds, web technology, cryptography, emerging digital crimes and modules	Remember
FS 531.2	Explain Computer Classification, Hardware, Classification and Types, Memory, I/O Devices, Cloud Storage, Software, Programing and Algorithms, Flowcharts, Operating Systems, Networks: Architecture and Basic Configurations	Understand
FS 531.3	Solve problems related to Introduction to Incident Response Process, Preparing for Incident Response, detection of an Incident, IRM life cyclepreparation, Identification, Detection, Containment, Eradication, Recovery,Investigations of Cyber Crime cases as per IRM cycles.	Apply
FS 531.4	Analyse the problem related to Data Acquisition and Authentication Process, Windows Forensic Analysis of File Systems-FAT12, FAT16, FAT32 and NTFS, UNIX file Systems, mac file systems, Embedded System Analysis, Network Forensic Analysis Overview and Cloud Computing.	Analyse
FS 531.5	Compare all the aspects of Forensic Tools, Usage of Slack space, tools for Disk Imaging, Data Recovery, Vulnerability Assessment Tools, Encase and FTK tools, Anti Forensics and probable counters, retrieving information, process of computer	Evaluate
FS 531.6	May apply the knowledge in Forensics and digital investigations, processing of digital evidence, digital images	Create

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Course Outcomes

Course Name: **Digital Forensics**

Course Code: FS 391

Year: 2019-2020

Semester: Autumn

Faculty Name: Prashant Kumar Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to…	Taxonomy Level
FS 391.1	Understand Digital Forensics, Classification, Definition and types of cybercrimes, electronic evidence and handling,electronic media.	Remember
FS 391.2	Explain collection, searching and storage of electronic media, introduction to internet crimes, hacking and cracking, credit card and ATM frauds, web technology, cryptography, emerging digital crimes and modules	Understand
FS 391.3	Solve problems related to Computer Classification, Hardware, Classification and Types, Memory, I/O Devices, Cloud Storage, Software, Programing and Algorithms, Flowcharts, Operating Systems, Networks: Architecture and Basic Configurations	Apply
FS 391.4	Analyse the problem related to Windows Forensic File Systems-FAT12, FAT16, FAT32 and NTFS, UNIX file Systems, mac file systems, Embedded System Analysis,Network Forensic Analysis Overview and Cloud Computing	Analyse
FS 391.5	Compare all the aspects of Forensic Tools, Usage of Slack space, tools for Disk Imaging, Data Recovery, Vulnerability Assessment Tools, Encase and FTK tools, Anti Forensics and probable counters	Evaluate
FS 391.6	May apply , retrieving information, process of computer forensics and digital investigations, processing of digital evidence, digital images	Create

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Course Outcomes

Course Name: **DIGITAL IMAGING LAB**

Course Code: FS 353

Year: 2019-2020

Semester: Autumn

Faculty Name: Prashant Kumar Singh

CO Number	**Course Outcome statement** At the completion of the course, student will be able to…	**Taxonomy Level**
FS 343.1	Understand Digitizing Image, Scaling Image, Filtering an Image, Image Normalization, Image Enhancement and Portrait Parley: Free Tools	Remember
FS 343.2	Explain Digitizing Image, Scaling Image, Filtering an Image, Image Normalization, Image Enhancement and Portrait Parley	Understand
FS 343.3	Solve problems related to Digitizing Image, Scaling Image, Filtering an Image, Image Normalization, Image Enhancement and Portrait Parley	Apply
FS 343.4	Analyse the problem related Digitizing Image, Scaling Image, Filtering an Image, Image Normalization, Image Enhancement and Portrait Parley	Analyse
FS 343.5	Compare all the aspects of Digitizing Image, Scaling Image, Filtering an Image, Image Normalization, Image Enhancement and Portrait Parley	Evaluate
FS 343.6	May create Digitizing Images, Scaling Image, Filtering an Image, Image Normalization and Image Enhancement	Create

11/11/19

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Course Outcomes

Course Name: **Forensic Photography, Digital Imaging and Portrait Parley**

Course Code: FS 343

Year: 2019-2020

Semester: Autumn

Faculty Name: Prashant Kumar Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to…	Taxonomy Level
FS 343.1	Understand Basic principles and techniques of photography, cameras and lenses,developments and printing, Different kinds of developers and fixtures,	Remember
FS 343.2	Explain modern developments in photography, linkage of cameras and film negatives, digital photography, digital water marking and digital imaging, high speed videogaphy, crime scene and laboratory photography	Understand
FS 343.3	Digital image fundamentals - Digital Image through scanner, digital camera. Concept of gray levels. Gray level to binary image conversion. Sampling and quantization. Relationship between pixels. Imaging Geometry.	Apply
FS 343.4	Analyse the problem related to Image Transform; Image enhancement Point processing. Histogram processing. Spatial filtering; Image Segmentation; Image Processing.	Analyse
FS 343.5	Compare all the aspects of **Portrait Parley** ,Composite Imagery: Graphic images composed of individually described characteristics of the human face; Image Modification/Identification: Methods of manipulation, enhancement and comparison.	Evaluate
FS 343.6	May integrate the fundamentals of Demonstrative Evidence: Visual information used for court purposes; Reconstructive/Postmortem Drawings: Methods of identifying human remains in various conditions of decomposition.	Create

15/11/19

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Course Outcomes

Course Name: FORENSIC ANTHROPOLOGY AND PERSONAL IDENTIFICATION

Course Code: FS 261

Year: 2019-20

Semester: Spring

Faculty Name: MR. Mayank Kumar Dubey

CO Number	Course Outcome statement At the completion of the course, student will be able to…	Taxonomy Level
FS 261.1	Define the Anatomical structure of long bones , pelvis	Remember
FS 261.2	Understand the Estimation of staure from long bone and determination of age, race and sex from long bone and pelvis	Understand
FS 261.3	Apply Anthropological techniques for estimation of height and weight of stature from long bone and determination of age, race and sex from pelvis.	Apply
FS 261.4	Analyze the problem related to height and weight estimations and determinations of age, sex and race during the examination	Analyse
FS 261.5	Compare the forensic examination of all methods and check their accuracy in result	Evaluate
FS 261.6	May integrate the knowledge of these examination from human remains in Forensic Personal identification cases	Create

MR. Mayank Kumar Dubey

7/4/20

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Course Outcomes

Course Name: FORENSIC ANTHROPOLOGY AND PERSONAL IDENTIFICATION

Course Code: FS 251

Year: 2019-20

Semester: Spring

Faculty Name: MR. Mayank Kumar Dubey

CO Number	Course Outcome statement At the completion of the course, student will be able to…	Taxonomy Level
FS 251.1	Define Forensic Anthropology, Forensic Odontology , Forensic thanatology and their forensic significance	Remember
FS 251.2	Understand the concept of Reconstruction, Biomolecular changes of death, bite mark and autopsy examinations	Understand
FS 251.3	Apply the anthropological and odonatological examination for determination of age, race and sex through human remains	Apply
FS 251.4	Analyze Antemortem and Postmortem changes and their importance in time since death.	Analyze
FS 251.5	Compare all the aspects and nature of different evidence examinations such as bite marks, Facial Reconstructions remains .	Evaluate
FS 251.6	Design a complete understanding of estimation of age, race and sex from human remains and their significance in personal identification	Create

7/2/20

MR. Mayank Kumar Dubey
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Course Outcomes

Course Name: TRACE EVIDENCE ANALYSIS IN LAB

Course Code: FS 151

Year: 2019-20

Semester: Spring

Faculty Name: Ms. Barkha Yadav

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FS 151.1	Define Physical and chemical properties of glass, paint, soil, Hair and fiber	Remember
FS 151.2	Explain the characteristic significance of properties of evidences helps in criminal investigations.	Understand
FS 151.3	Execute the microscopic and Instrumental Examination for analysis of density, refractive index.	Apply
FS 151.4	Analyze the problem related to physical and chemical examination of paint chips, hair, Fiber, soil and glass.	Analyze
FS 151.5	Compare the Microscopic and Instrumental analysis for its relevancy in different criminal investigations	Evaluate
FS 151.6	May integrate the significance of paint, glass, soil, hair and fiber and their forensic importance in various crime scene.	Create

7/9/20

Ms. Barkha Yadav

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Course Outcomes

Course Name: **SPEECH ANALYSIS and MULTIMEDIA FORENSICS**
Course Code: FS 621
Year: 2019-2020

Semester: Autumn

Faculty Name: Prashant Kumar Singh

CO Number	**Course Outcome statement** At the completion of the course, student will be able to…	**Taxonomy Level**
FS 621.1	Understand Speech Anatomy, Mechanism of speech Production, Acoustic Properties of Vocal Tract, Uniqueness in person"s voice, interspeaker and intraspeaker variation; Articulation- Manner & Place of Articulation, Phonemes, Vowel, Consonant and Glides; Phonetics in Speaker Identification, IPA (The International Phonetic Alphabets), Forensic Phonetics, Effect of context, Supra segmental (Prosodic features). Audio-enhancement, Sound Recording/Playback Devices: Analog Tape recorders, Digital recorder, Microphone types, Digital audio formats. Apex Court Judgments on Speaker Identification. Court presentation of report based on speaker identification.	Remember
FS 621.2	Explain Digital Signal Processing, A to D Conversion- Sampling, Quantization, Digital Audio Formats, Pulse Code Modulation, Coding and Decoding, Computer Representation of Speech Speaker Recognition: Principles of speaker recognition/identification, Methods on Speaker Recognition. Various approaches in Forensic Speaker Identification, Interpretation of result, Statistical interpretation of probability scale, Objective/Subjective methods, discriminating tests, closed test, open test, likelihood ratio calculation, Concept of test and error in Speaker Identification. Introduction to Pattern Recognition, Pattern Recognition application in Automatic Speaker Identification and Verification System, Different algorithm of automatic speaker identification	Understand
FS 621..3	Apply Audio Evidence Examination: Handling of audio recording evidences, Procedure for preparation of working copies, Phonetic transcription, Analysis of linguistic & phonetic characteristics, Temporal measurement, Text-dependent and text-independent speaker recognition. Instrumental	Apply
FS 621.4	Analysis of speech sample: Verbatim, Clue words, IPA marking, CSL & Linear predictive coding technique, Fourier transformation, Examination using SPID, Vocal behaviors, alcohol speech relationships. Authentication of recorded audio: Type of alterations, Auditory Examination by Critical Listening. Waveform analysis, Speech Spectrographic analysis, Magnetic developing, Optical Method.	Analyse

FS 621.5	Compare all the aspects of video technology: Video standards, Recording formats- Analog and Digital, Introduction to video devices, Linear and Non-linear editing, Concept of video film production, Graphics and animation technique. Image perception, Colour space & representation, Storage, .	Evaluate
FS 621.6	May apply the knowledge in Image processing application. Introduction to image enhancement, Image restoration, Concept of digital water marking, Image compression, Retrieval of video files, Integrity of images, Facial image recognition. Forensic analysis of audio/video in video recording: Authentication of video recording, Visual examination technique on video frame sequence, Video image analysis- object, costumes, Facial image recognition from video frame image, Video signal analysis	Create

for Prashant Kumar Singh

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Course Name: Smart Material

Course Code: PH 672

Year: SECOND

Semester: IV

Faculty Name: Dr. Narendra Kumar

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PH672.1	Define the terminology used in Biosensors	Remember
PH672.2	Discuss the features of smart materials	Understand
PH672.3	Classify the types of sensors	Analyse
PH672.4	Design sensors	Create
PH672.5	Illustrate the working of varios types of sensors	Apply
PH672.6	Compare different types of SWNTs and MWNTs, NEMs and MEMs	Evaluate

10/3/20

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Course Outcomes

Course Name: Electronics Laboratory

Course Code: PH651

Year: 2019-2020

Semester: I

Faculty Name: Dr. Rakhee Chaudhary

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PH651.1	Understand the origin of Quantum mechanics and its developments.	Understand
PH651.2	Study of different operators and their applications.	Apply
PH651.3	Analysis the solution of Schrodinger equation for simple problems.	Analysis
PH651.4	To evaluate generalized angular momentum, raising and lowering operators.	Evaluate

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Course Outcomes (2019-20)

Course Name: Physics of Naomaterials

Course Code: PH 631

Year: SECOND (M.Sc. Physics)

Semester: AUTUMN (2019-20)

Faculty Name: Dr Narendra Kumar

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PH631.1	List the properties and applications of nanomaterials	Remember
PH631.2	Summarize the various theories in crystallography	Understand
PH631.3	Categories the types of confinements	Analyze
PH631.4	Determine the eigen values of Quantum well, Q Wire, Q D	Apply
PH631.5	Overview the applications of CNT	Evaluate
PH631.6	Generate concepts about Photonic crystals and nanophotonics	Create

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Course Outcomes

Course Name: Statistical Physics and Thermodynamics

Course Code: PH 551

Year: FIRST (M.Sc.)

Semester: AUTUMN (2019-20)

Faculty Name: Dr. Narendra Kumar

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PH551.1	Define phase space and other terminology	Remember
PH551.2	Understand the basics of statistical measurements like random walk	Understand
PH551.3	Formulate Maxwell's equations	Create
PH551.4	Classify the three statistics	Analyze
PH551.5	Apply the various statistics to solve physical properties	Apply
PH551.6	Defend on the BE condensation and other phenomena	Evaluate

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Course Outcomes

Course Name: Mathematical Physics II

Course Code: PH 512

Year: FIRST

Semester: II (2019-20)

Faculty Name: Dr. Narendra Kumar

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PH512.1	Analyze the analcites of a function	Analyse
PH512.2	Interpret the various theorems	Understand
PH512.3	Apply these theorems to solve problems	Apply
PH512.4	Name the terminology in groups	Remember
PH512.5	Create the Fourier series	Create
PH512.6	Evaluate the integrals and by Laplace and Fourier transforms	Evaluate

10/3/20

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Course Outcomes (2019-20)

Course Name: Mathematical Physics I

Course Code: PH 511

Year: FIRST (M.Sc. Physics)

Semester: AUTUMN (2019-20)

Faculty Name: Dr Narendra Kumar

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PH511.1	Define the various terms in vector space	Remember
PH511.2	Understand various theorems	Understand
PH511.3	Determine the inverse matrix	Apply
PH511.4	Prove the recurrence relations	Evaluate
PH511.5	Show the generating function	Analyze
PH511.6	Create the various Polynomials	Create

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Course Name: Basics of Nano-Science and Exotic Materials

Course Code: PH 372

Year: THIRD

Semester: VI

Faculty Name: Dr. Narendra Kumar

CO Number	**Course Outcome statement** At the completion of the course, student will be able to	**Taxonomy Level**
PH372.1	Assess the effect of dimensionality on band structure	Evaluate
PH372.2	Classify different routs for synthesis of nanomaterials	Analyse
PH372.3	Explain CNT and nanophotonics	Understand
PH372.4	Demonstrate the theory behind High Temp Superconductors	Apply
PH372.5	Give features of CMR materials	Remember
PH372.6	Build Quasicrystal structures	Create

10/3/20

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Course Outcomes

Course Name: Statistical Mechanics

Course Code: PH323

Year: THIRD (B.Sc. H Physics)

Semester: AUTUMN (2019-20)

Faculty Name: Dr. Narendra Kumar

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PH323.1	Remember the terminologies	Remember
PH323.2	Understand the statistical concepts	Understand
PH323.3	Formulate Black body radiation laws	Create
PH323.4	Classify the three statistics and illustrate differences	Analyze
PH323.5	Analyze the features of Fermi gas	Evaluate
PH323.6	Apply the statistical laws	Apply

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Course Outcomes

Course Name: **Physics Laboratory V**

Course Code: **PH321**

Year: III

Semester: V

Faculty Name: Dr. Manoj Mishra

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PH211-1	Formula used of experiment (Exp 1 – Exp 8)	Remember
PH211-2	Apparatus required and theory of experiment (Exp 1 – Exp 8)	Understand
PH211-3	Circuit formation and taking observation of experiment (Exp 1 – Exp 8)	Apply
PH211-4	Calculations of experiment (Exp 1 – Exp 8)	Analyze
PH211-5	Result of experiment (Exp 1 – Exp 8)	Evaluate
PH211-6	precautions of experiment (Exp 1 – Exp 8)	Apply

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List of experiments

Exp	Objective
Exp. 1	To show that the impedance of a coil of resistance R_L and self inductance L varies with frequency as $Z_{coil} = (R_L^2 + 4\pi^2 f^2 L^2)^{1/2}$ and to measure the self inductance.
Exp. 2	To study the LDR (Opto Electronics Device) characteristics.
Exp. 3	To study the Light Emitting Diode LED (Opto Electronics Device) characteristics.
Exp. 4	To study the Photo Transistor (Opto Electronics Device) characteristics.
Exp. 5	To study of material constant, temperaturecoefficient of current and planck's constant.
Exp. 6	To study the Photo Diode (Opto Electronics Device) characteristics
Exp. 7	To determine the temperature coefficient of resistance of copper wire
Exp. 8	To Determine unknown Capacitance using De Sauty's bridge bridge

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Course Outcomes

Course Name: Quantum Mechanics and Spectroscopy

Course Code: PH311

Year: 2019-2020

Semester: I

Faculty Name: Dr. Rakhee Chaudhary

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PH311.1	Understand the origin of Quantum mechanics and its developments.	Understand
PH311.2	Study of different operators and their applications.	Apply
PH311.3	Analysis the solution of Schrodinger equation for simple problems.	Analysis
PH311.4	To evaluate generalized angular momentum, raising and lowering operators.	Evaluate

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LAB Course Outcomes

Course Name: Physics Laboratory III

Course Code: PH 231

Year: SECOND (B.Sc. H /Pass)

Semester: AUTUMN (2019-20)

Faculty Name: Dr. Narendra Kumar

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PH231.1	Determine the wavelengths (monochromatic or different colours) by applying Newton's ring, Biprism, and Grating Determine the wavelength of He-Ne laser light; Planck's constant; High Resistance by leackage	Apply
PH231.2	Verify the electrically polarized light, zener diode characteristics	Analyze

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Course Outcomes

Course Name: Advanced Quantum Mechanics

Course Code: PH212

Year: 2019-2020

Semester: IV

Faculty Name: Dr. Rakhee Chaudhary

CO Number	**Course Outcome statement** At the completion of the course, student will be able to	**Taxonomy Level**
PH212.1	To understand various transformations of curvilinear coordinates.	Understand
PH212.2	To study Dirac-delta function.	Apply
PH212.3	To analysis Four vector formulation	Analysis
PH212.4	To evaluate Differential Equations.	Evaluate
PH212.5	Fourier Analysis	Evaluate

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Course Outcomes

Course Name: Thermodynamics and Statistical Physics

Course Code: PH122

Year: First

Semester: Second

Faculty Name: Dr. Narendra Kumar

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PH122.1	define thermodynamic terminology correctly	Remember
PH 122.2	understand second law of thermodynamics and entropy	Understand
PH122.3	calculate efficiency of Carnot's cycle and entropy in various cases	Apply
PH122.4	derive Maxwell equations and its applications	Create
PH122.5	outline various types of coolings	Analyse
PH122.6	compare between statistical and thermodynamic parameters	Evaluate

10/3/20

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Course Outcomes

Course Name: B.Sc. PCM/(Hons Physics)

Course Code: PH 121

Year: FIRST

Semester: II (2019-20)

Faculty Name: Dr. Narendra Kumar

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PH121.1	Understand the terminology of Electrostatics and magneto-statics	Remember
PH121.2	Analyze various laws like Ampere's law, Faraday Law	Analyse
PH121 3	Apply these solve problems	Apply
PH121.4	Maxwells Equations and interpretations	Understand
PH121.5	Evaluate the characteristics of EM wave through different materials	Evaluate

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Course Outcomes

Course Name: B.Sc./ Hons (Bio)

Course Code: PH 112

Year: FIRST

Semester: II (2019-20)

Faculty Name: Dr. Narendra Kumar

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PH112.1	Analyze the wave optics	Analyse
PH112.2	Interpret the interference, diffraction and polarisation	Understand
PH112 3	Apply these solve problems	Apply
PH112.4	Name the terminology in Laser	Remember
PH112.5	Evaluate the Nuclear phenomena	Evaluate

10/3/20

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Course Outcomes

Course Name: Atomic & Molecular Physics and Lasers

Course Code: PH 522

Year: MSc (Physics) First

Semester: Spring

Faculty Name: Dr. Rakhee Chaudhary

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PH522.1	Describe time independent perturbation theory for degenerate and non degenerate state.,concepts and principles of lasers, YAG laser,Fiber laser and Erbium laser, systems with many electrons.	Understand
PH522.2	Explain Molecular Spectra of Diatomic molecules	Understand
PH522.3	Differentiate coupling schemes,identical particles,spectra	Understand
PH522.4	Apply time independent perturbation theory to solve various problems of quantum mechanics	Apply
PH522.5	Analyse the infrared, Raman and Electronic spectra	Analyse
PH522.6	Evaluate the term symbol for atom in a given state.	Evaluate

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Course Outcomes

Course Name: Advanced Quantum Mechanics

Course Code: PH612

Year: 2019-2020

Semester: IV

Faculty Name: Dr. Rakhi Chaudhary

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PH612.1	To understand various theories such as Time dependent perturbation theory, Fermi Golden rule, constant perturbation harmonic in time, dipole approximation, Approximation methods: W. K. B. method, Variational principle	Understand
PH612.2	To study system of identical particles and their spin and states by Coulomb repulsion and Hamiltonian of a molecule, Born-Oppenheimer approximation, outline of Heitler-London theory of the hydrogen molecule.	Apply
PH612.3	To analysis of scattering theory of particles in laboratory and phase shifts and their importance by employing partial wave method for square well; potential and a perfectly rigid sphere	Analysis
PH612.4	To evaluate of the Klein-Gordon equation and initial difficulties in interpreting its solutions, explanation of the spin of the electrons, solution for hydrogen atom in Dirac's theory, negative energy states and their qualitative explanations.	Evaluate

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Course Outcomes

Course Name: Soft Condensed Matter Physics

Course Code: PH623

Year: M.Sc. Physics II Year

Semester: Autumn Semester

Faculty Name: Dr. Rakhee Chaudhary

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
1	Apply the statistical tools used in condensed matter.	Apply
2	Understand Fluctuation induced forces and mean-field model of media to estimate physical properties of material.	Understand
3	Know the characteristic properties of Polymers, nature of conducting polymers and thermal properties of polymeric materials	Remember
4	Identify how structure/property/ processing relationships are developed and applied for different type of materials	Evaluate
5	Understand effect of rheology, various rheological parameters in processing and applications of materials.	Understand

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SCHOOL OF BUSINESS

... Nation Building through Women Leadership

Course Name:	***Business Accounting***
Course Code:	AAT 233
Year:	II Year
Semester:	III Semester
Faculty Name:	Sukriti Khatri

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
TTT 233.1	Understand the theoretical basics of accounting and depreciation.	Understand
TTT 233.2	Understand the preparation of Financial Statements.	Apply
TTT 233.3	Understand the concept of sectional and self balancing system.	Apply
TTT 233.4	Understand exactly what a Joint Venture is and prepare accounts relating to the Joint Venture.	Apply
TTT 233.5	Understand the accounting of Consignments and prepare their books of accounts.	Apply
TTT 233.6	Understand the concept of Insurance claims and learn the calculation of claims in different scenarios.	Apply

MODY UNIVERSITY OF SCIENCE AND TECHNOLOGY
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School of Management Studies

Course Outcomes

Course Name: ***Principles of Insurance***

Course Code: BC 251

Year: II Year

Semester: III Semester

Faculty Name: Mr. Sumit Kulshrestha

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
BC 251.1	Understand the concepts of risk management and its techniques mainly insurance	Remember
BC 251.2	Define principles and methods of insurances.	Understand
BC 251.3	Discuss the Products and types of life insurance and non-life insurance	Understand
BC 251.4	Apply the techniques and methods used in premium and claims calculations.	Apply
BC 251.5	Analyse the useful of insurance in contemporary environments.	Analyse
BC 251.6	Develop the products in life insurance and non-life insurance as per need recognition process.	Create

(Sumit Kulshrestha)

Faculty Signature

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Course Outcomes

Course Name: ***Financial Market, Institutions and Services***

Course Code: BC 341

Year: III Year

Semester: V Semester

Faculty Name: Mr. Sumit Kulshrestha

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
BC 341.1	Understand the concepts, meaning and components of financial systems.	Understand
BC 341.2	Define the functions and mechanism of financial markets in detail in India	Understand
BC 341.3	Discuss the functions and mechanisms of financial institutions in India.	Understand
BC 341.4	Discuss the functions and mechanisms of financial services in detail.	Understand
BC 341.5	Analyse the importance of financial markets, institutions and services in Financial system.	Analyse
BC 341.6	Develop the integrate model of financial system by explaining the role and importance of Financial markets, institutions and services.	Create

(Sumit Kulshrestha)

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Course Name:	***Financial Accounting***
Course Code:	BC 111
Year:	I Year
Semester:	I Semester
Faculty Name:	Sukriti Khatri

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
BC 111.1	Understand the theoretical basics of accounting and depreciation.	Understand
BC 111.2	Understand the preparation of Financial Statements.	Apply
BC 111.3	Understand the concept of sectional and self balancing system.	Apply
BC 111.4	Understand exactly what a Joint Venture is and prepare accounts relating to the Joint Venture.	Apply
BC 111.5	Understand the accounting of Consignments and prepare their books of accounts.	Apply
BC 111.6	Understand the concept of Insurance claims and learn the calculation of claims in different scenarios.	Apply

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Course Name	:	Business Laws
Course Code	:	BC 121
Year	:	I
Semester	:	I
Faculty Name	:	Kshitiz Jangir

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
BC 121.1	Understand the various concepts and terminologies related to law of Contract applicable in India	Understand
BC 121.2	Understand the concepts appliable in transaction of Sale of goods as per the Sale of Goods Act, 1930	Understand
BC 121.3	Learn and understand the rule applicable to Limited Liability Partnerships	Understand
BC 121.4	Learn and understand the laws related to Information Technology	Understand
BC 121.5	Understand the rights and obligations of parties involved in business contracts	Apply
BC 121.6	Understand the use of digital signature and learn the registration of LLPs	Apply

Kshitiz

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Course Outcomes

Course Name: **Microeconomics**

Course Code: BC 151

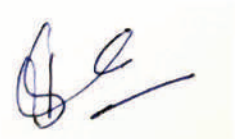
Year: I Year

Semester: I Semester

Faculty Name: Dr. Rajesh Sharma

At the end of the course, the student will be able to:

CO	CO statement	Taxonomy
BC 151.1	Understand the basic concepts related to consumer behaviour in the microeconomics	Understand
BC 151.2	Evaluate the relevance of demand and supply behaviour in the short run and long run	Evaluate
BC 151.3	Highlight the various concepts of production function and cost theory	Remember
BC 151.4	Analyse the relationship between various types of cost curves with the help of examples	Analyse
BC 151.5	Create the differences between various forms of market for with the help of relevant examples	Create
BC 151.6	Apply the cost, production, and demand supply curves to exhibit the profits or losses in different forms of markets	Apply



Dr. Rajesh Sharma

Faculty Signature

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Course Outcomes

Course Name: Human Resource Management

Course Code: BC 231

Year: II

Semester: III

Faculty Name: Dr. Sunita Verma

CO Number	**Course Outcome statement** At the completion of the course, student will be able to	**Taxonomy Level**
BC 231.1	Understand the concept of human resource management and its relevance in organizations.	Understand
BC 231.2	Know formalize, design and evaluate various recruitment, placement, selection and interviewing Policies.	Analyse
BC 231.3	Realize the importance of training and development of employees and develop and design a training and development program	Apply
BC 231.4	Describe basic concepts in Performance Management and Appraisal, Introduction to Appraising performance, appraising performance: problems and issues	Apply
BC 231.5	Rational design of compensation and salary administration	Apply
BC 231.6	Handle employee issues and evaluate the new trends in HRM	Analyse

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Course Name:	***Cost Accounting***
Course Code:	BC 241
Year:	II Year
Semester:	III Semester
Faculty Name:	Sukriti Khatri

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
BC 241.1	Describe the basics of Cost Accounting.	Understand
BC 241.2	Analyse and evaluate information for cost ascertainment using Unit Cost Sheet and Job Cost Sheet.	Analyse
BC 241.3	Summarize process cost accounting and prepare a process cost account.	Apply
BC 241.4	Apply standards and budgets for planning and controlling purposes.	Apply
BC 241.5	Learn how costs are analysed for different product costing contexts such as Contact or operating costing.	Apply
BC 241.6	Demonstrate how materials, labor and overhead costs are added to a product at each stage of the production cycle.	Apply

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Course Name:	***Financial Management***
Course Code:	BC 321
Year:	III Year
Semester:	V Semester
Faculty Name:	Sukriti Khatri

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
BC 321.1	Understand the fundamental financial concepts.	Understand
BC 321.2	Apply concepts like time value of money and CAPM.	Apply
BC 321.3	Analyse the complexities associated with management of cost of funds in the capital Structure	Apply
BC 321.4	Understand and apply the various Dividend decision Models.	Apply
BC 321.5	Apply capital budgeting projects using different methods.	Apply
BC 321.6	Understand and apply the concepts of working capital decision making.	Apply

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Course Outcomes

Course Name: ***Business Statistics***

Course Code: BC 131

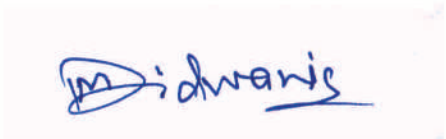
Year: I Year

Semester: I Semester

Faculty Name: Dr. Manish Didwania

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
BC 131.1	Describe and discuss the key terminology, concepts tools and techniques used in business statistical analysis along with collection, classification and tabulation of data.	Understand
BC 131.2	Critically evaluate the underlying assumptions of analysis tools in different fields with respect to central tendency.	Apply
BC 131.3	Understand and critically discuss the issues surroundings related to deviations in data with respect to measures of dispersion.	Apply
BC 131.4	Discuss critically the uses of correlation analysis and its limitations in statistical analysis.	Apply
BC 131.5	Solve a range of problems using the techniques covered in regression analysis.	Apply
BC 131.6	Conduct basic statistical analysis of data with respect to Index Numbers as cost-of-living index.	Evaluate



Faculty Signature
Manish Didwania

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Course Outcomes

Course Name: ***Direct Tax Laws***

Course Code: BC 211

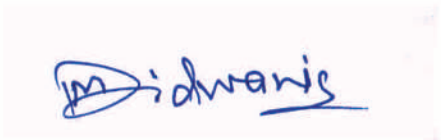
Year: II Year

Semester: III Semester

Faculty Name: Dr. Manish Didwania

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
BC 211.1	Discuss the basic principles underlying the direct Taxation Statutes and knowledge about determining Residential status.	Understand
BC 211.2	Identify and analyse the computation and regulation about the Income from salaries and House property.	Apply
BC 211.3	Identify and analyse the computation and regulation about the Income from Business & Profession and Capital Gain.	Apply
BC 211.4	To know how to compute Income from Capital Gain and about the adjustments of Deemed Incomes and Set off and Carry forward of losses.	Apply
BC 211.5	To know about the deductions from Gross Total Income and determination of Total Income.	Apply
BC 211.6	Evaluate and assessment final tax liability payable or refund for the relevant total income for Individual, HUF and Firm.	Evaluate



Faculty Signature
Manish Didwania

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Course Outcomes

Course Name: ***Principles of Marketing***

Course Code: BC 311

Year: BCOM(H) III Year

Semester: Autumn Semester, 2019-20

Faculty Name: Dr. Ashish Kumar Sharma

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
BC 311.1	Describe the distribution and promotion strategies adopted by marketing firms	Remember
BC 311.2	Explain the basic concepts of marketing management	Understand
BC 311.3	Examine the importance of buyer behaviour and segmentation, targeting and positioning while formulating marketing strategy	Apply
BC 311.4	Analyse the various elements of marketing environment	Analyse
BC 311.5	Classify the current product and pricing strategies of existing firms	Evaluate
BC 311.6	Design the marketing strategy for a new business venture	Create

Faculty Name – Dr. Ashish Kumar Sharma

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Course Outcomes

Course Name: ***Operation Research***

Course Code: BC 351

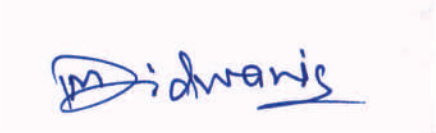
Year: III Year

Semester: VI Semester

Faculty Name: Dr. Manish Didwania

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
BC 351.1	Introduction, Scope and Limitation about Operation Research. Introduction of different appropriate techniques with its use.	Understand
BC 351.2	Define and formulation of LPP, Transportation problems and Assignment Model and derive solution by using appropriate techniques of these models.	Apply
BC 351.3	Determination of results in various situational problems with the help of Queuing model and Game model by using its different techniques.	Apply
BC 351.4	Develop skills to analyse decision making problems and Replacement Problems arising from a wide range of applications.	Apply
BC 351.5	Develop skills to analyse and solve simulation and network models arising from a wide range of applications.	Apply
BC 351.6	Effectively communicate ideas, explain procedures and interpret results and solutions in written and electronic forms to different audiences.	Evaluate



Faculty Signature
Manish Didwania

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Course Outcomes

Course Name: ***Entrepreneurship***

Course Code: BC 361

Year: BCOM(H) III Year

Semester: Autumn Semester, 2019-20

Faculty Name: Dr. Ashish Kumar Sharma

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
BC 361.1	Identify the prominent businessmen of India and describe their business acumen	Remember
BC 361.2	Explain the basic concepts of entrepreneur, entrepreneurship and enterprise	Understand
BC 361.3	Determine the role of SSI's in the development of the nation and their underlying problems	Apply
BC 361.4	Analyse the functioning of EDP organisations	Analyse
BC 361.5	Assess the process of identifying a new business project and its feasibility	Evaluate
BC 361.6	Design a business plan for a new venture	Create

Faculty Name – Dr. Ashish Kumar Sharma

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Course Name: ***Management Accounting***
Course Code: BM 231
Year: II Year
Semester: III Semester
Faculty Name: Sukriti Khatri

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
BM 231.1	Explain the primary purposes of management accounting namely, its tools and techniques.	Understand
BM 231.2	Explain how Management costing is different from other forms of costing, cost concepts and cost behaviours used in Management Costing.	Understand
BM 231.3	Apply standards and budgets for planning and controlling purposes.	Apply
BM 231.4	Apply management ideas and practices in making short term and long term decisions.	Apply
BM 231.5	Asses relativity of cost, volume and profit , and use CVP analysis as a planning and decision making aid.	Apply
BM 231.6	Explain the concept and significance of Responsibility Accounting.	Understand

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Course Outcomes

Course Name: Human Resource Management I

Course Code: BM 241

Year: II

Semester: III

Faculty Name: Dr. Sunita Verma

CO Number	**Course Outcome statement** At the completion of the course, student will be able to	**Taxonomy Level**
BM 241.1	Understand the concept of human resource management and its relevance in organizations.	Understand
BM 241.2	Know formalize, design and evaluate various recruitment, placement, selection and interviewing Policies.	Analyse
BM 241.3	Realize the importance of training and development of employees and develop and design a training and development program	Apply
BM 241.4	Describe basic concepts in Performance Management and Appraisal, Introduction to Appraising performance, appraising performance: problems and issues	Apply
BM 241.5	Rational design of compensation and salary administration	Apply

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Course Name	:	Business Regulatory Framework - I
Course Code	:	BM 251
Year	:	II
Semester	:	III
Faculty Name	:	Kshitiz Jangir

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
BM 251.1	Understand the various concepts and terminologies related to law of Contract applicable in India	Understand
BM 251.2	Understand the concepts appliable in transaction of Sale of goods as per the Sale of Goods Act, 1930	Understand
BM 251.3	Learn and understand the rule applicable to Partnerships	Understand
BM 251.4	Learn and understand the laws related to Consumer Protection	Understand
BM 251.5	Understand the rights and obligations of parties involved in business contracts	Apply
BM 251.6	Understand the workings of various consumer forums	Apply

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Course Outcomes

Course Name: ***Marketing Management – I***

Course Code: BM 231

Year: BBA II Year

Semester: Autumn Semester, 2019-20

Faculty Name: Dr. Ashish Kumar Sharma

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
BM 231.1	Describe the steps in new product development process	Remember
BM 231.2	Explain the basic concepts of marketing management	Understand
BM 231.3	Examine the importance of buyer behaviour and market segmentation while formulating marketing strategy	Apply
BM 231.4	Analyse the various elements of marketing environment	Analyse
BM 231.5	Classify the current product strategies of existing firms	Evaluate
BM 231.6	Formulate pricing strategy for a marketing firm	Create

Faculty Name – Dr. Ashish Kumar Sharma

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Course Outcomes

Course Name: ***Retail Management***

Course Code: BM 371

Year: BBA III Year

Semester: Autumn Semester, 2019-20

Faculty Name: Dr. Ashish Kumar Sharma

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
BM 371.1	Describe the characteristics of store and non-store retailing patterns	Remember
BM 371.2	Explain the main features and potential of the retail market in India	Understand
BM 371.3	Demonstrate the retail marketing strategy of a real-life business firm	Apply
BM 371.4	Analyse the assigned case study on retail strategy of a firm	Analyse
BM 371.5	Compare the retail atmospherics strategies of existing firms	Evaluate
BM 371.6	Develop skills, plan products, and understand consumer and retail store location characteristics for contributing to the emerging challenges in retail management	Create

Faculty Name – Dr. Ashish Kumar Sharma

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Course Outcomes

Course Name: **Microeconomics**

Course Code: BS 131

Year: I Year

Semester: I Semester

Faculty Name: Dr. Rajesh Sharma

At the end of the course, the student will be able to:

CO	CO statement	Taxonomy
BS 131.1	Understand the basic concepts related to consumer behaviour using different types of elasticity concepts	Understand
BS 131.2	Evaluate the relevance of demand and supply behaviour in the short run and long run	Evaluate
BS 131.3	Highlight the various concepts of production function and cost theory	Remember
BS 131.4	Analyse the relationship between various types of cost curves with the help of examples	Analyse
BS 131.5	Create the differences between various forms of market for with the help of relevant examples	Create
BS 131.6	Apply the cost, production, and demand supply curves to exhibit the profits or losses in different forms of markets	Apply

Dr. Rajesh Sharma

Faculty Signature

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Course Name	:	Business and Corporate Laws
Course Code	:	BS 151
Year	:	I
Semester	:	I
Faculty Name	:	Kshitiz Jangir

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
BS 151.1	Understand the various concepts and terminologies related to law of Contract applicable in India	Understand
BS 151.2	Understand the concepts appliable in transaction of Sale of goods as per the Sale of Goods Act, 1930	Understand
BS 151.3	Learn and understand the rule applicable to Limited Liability Partnerships	Understand
BS 151.4	Learn and understand the laws related to Information Technology	Understand
BS 151.5	Understand the various concepts and terminologies related to companies in India	Understand
BS 151.6	Understand the process related to formation and registration of companies	Apply

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Course Name:	***Management Accounting***
Course Code:	BS 231
Year:	II Year
Semester:	III Semester
Faculty Name:	Sukriti Khatri

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
BS 231.1	Explain the primary purposes of management accounting namely, its tools and techniques.	Understand
BS 231.2	Explain how Management costing is different from other forms of costing, cost concepts and cost behaviours used in Management Costing.	Understand
BS 231.3	Apply standards and budgets for planning and controlling purposes.	Apply
BS 231.4	Apply management ideas and practices in making short term and long term decisions.	Apply
BS 231.5	Asses relativity of cost, volume and profit , and use CVP analysis as a planning and decision making aid.	Apply
BS 231.6	Explain the concept and significance of Responsibility Accounting.	Understand

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Course Outcomes

Course Name: Industrial Laws

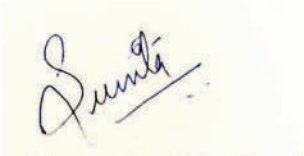
Course Code: BC 331

Year: III

Semester: V

Faculty Name: Dr. SunitaVerma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BC 331.1	Understand the various Labour laws prevailing in India and provisions related to Employee provident fund and miscellaneous act.	Understand
BC 331.2	Analyze the application of various provisions related to employee state insurance act.	Apply
BC 331.3	Understand and apply the provisions related to payment of wages.	Apply
BC 331.4	At the end of the course students will be able to understand the concepts related administration and management of bonus.	Apply
BC 331.5	Learn about the calculation of gratuity.	Apply
BC 331.6	At the end of the course students will be able to understand and apply the concepts related to employee compensation	Apply



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Course Outcomes

Course Name: Business Communication

Course Code: CP101

Year: I

Semester: I

Faculty Name: Dr. Sunita Verma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CP 101.1	Explain Principles of effective Communication, Components, forms, process, barriers and role of verbal and verbal in Communication	Understand
CP 101.2	Formulate strategies for successful listening and speaking skills	Create
CP 101.3	Identify the importance of corporate communication.	Understand
CP 101.4	Improve writing skills- writing different messages, writing reports, proposals, business plans, Drafting of notice, Agenda, Minutes & resolutions of Meeting. Creating and delivering good presentations, Managing data and visuals.	Apply
CP 101.5	Learn Business Etiquettes and Cross Cultural Dimensions of Business Communication.	Apply
CP 101.6	Help in career management-Looking for Job, Planning for Job, Social Networking and Job search, Preparing for Resume, Cover Letter, Group Discussion and Interview, Technology in Business Communication.	Apply

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Course Outcomes

Course Name: Business Communication

Course Code: CP101

Year: I

Semester: I

Faculty Name: Dr. Sunita Verma

CO Number	**Course Outcome statement** At the completion of the course, student will be able to	**Taxonomy Level**
CP 101.1	Explain Principles of effective Communication, Components, forms, process, barriers and role of verbal and verbal in Communication	Understand
CP 101.2	Formulate strategies for successful listening and speaking skills	Create
CP 101.3	Identify the importance of corporate communication.	Understand
CP 101.4	Improve writing skills- writing different messages, writing reports, proposals, business plans, Drafting of notice, Agenda, Minutes & resolutions of Meeting. Creating and delivering good presentations, Managing data and visuals.	Apply
CP 101.5	Learn Business Etiquettes and Cross Cultural Dimensions of Business Communication.	Apply
CP 101.6	Help in career management-Looking for Job, Planning for Job, Social Networking and Job search, Preparing for Resume, Cover Letter, Group Discussion and Interview, Technology in Business Communication.	Apply

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Course Outcomes

Course Name:Talent Management

Course Code: HR 213

Year: II

Semester: III

Faculty Name: Dr. SunitaVerma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
HR 213.1	Understand the concept, scope, model, elements, and process of Talent Management.	Understand
HR 213.2	Know the challenges and building blocks of Talent Management. Design the TMS.	Apply
HR 213.3	Design the succession planning Program and integrate the succession planning and career planning.	Apply
HR 213.4	Identify the potential and helps in development and retention of Talent.	Evaluate
HR 213.5	Learn the reward strategies for effective Talent Management.	Apply
HR 213.6	Analyse organizational Issues, challenges and best practice of Talent Management.	Apply

Signature of the faculty

Course BC 141: Management Principles and Application

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
BC 141.1	To have clear understanding of managerial functions , roles, skills and concepts	(Understand)
BC 141.2	To understand the Classical, Neo Classical and Modern approaches to Management and the emerging issues in management	(Understand)
BC 141.3	To understand the planning process in the organization, and types of plans plus tools and techniques of planning	(Understand)
BC 141.4	Ability to appreciate the process of organizing, the resultant types of organization structures and their implications.	(Apply)
BC 141.5	To understand theories of motivation and leadership and discuss benefits of different types of motivation suitable as per situation	(Apply)
BC 141.6	Analyze and isolate issues and formulate best control methods using appropriate tools and techniques.	(Apply)

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Course Outcomes

Course Name : ***Evolution of Indian Business***

Course Code : BS 111

Year : I Year

Semester : I Semester

Faculty Name : Dr. BS Rathore

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
BS 111.1	Understand the early colonial rule and the fate of indigenous merchants in different parts of India.	Understand
BS 111.2	Analyse the reasons of rise of Indian industry in Western India—profits from opium trade and the rise of cotton textile industry in the second half of the nineteenth century.	Analyse
BS 111.3	Learn the business functions and develop entrepreneurial skills by analysing the role of agency houses and rise of Marwari industrialists in Eastern India.	Evaluate
BS 111.4	Understand the indigenous capital and the bazaar economy, traditional commission agencies (arhat) and financial instruments (hundi).	Understand
BS 111.5	Evaluate the economy of independent India and the planning period and license raj.	Apply
BS 111.6	Learn the alternative models of business success -Amul and the cooperative model, Maruti and the state-initiated models.	Create

Faculty Signature

Course BS 121: Principles of Management

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
BS 121.1	To have clear understanding of managerial functions , roles, skills and concepts	(Understand)
BS 121.2	To understand the Classical, Neo Classical and Modern approaches to Management and the emerging issues in management	(Understand)
BS 121.3	To understand the planning process in the organization, and types of plans plus tools and techniques of planning	(Understand)
BS 121.4	Ability to appreciate the process of organizing, the resultant types of organization structures and their implications.	(Apply)
BS121.5	To understand theories of motivation and leadership and discuss benefits of different types of motivation suitable as per situation	(Apply)
BS 121.6	Analyze and isolate issues and formulate best control methods using appropriate tools and techniques.	(Apply)

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Course Outcomes

Course Name: **Production & Operations Management**

Course Code: BS 251

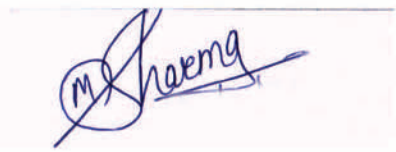
Year: BBA (TTM) II Year

Semester: III Semester

Faculty Name: Dr. Meena Sharma

At the end of the course, the student will be able to:

CO	CO statement	Taxonomy
BS 251.1	Introduce the theory and practice of production management as a functional area in management of business enterprise.	Understand
BS 251.2	Identify the elements of operations management and various transformation processes to enhance productivity and competitiveness.	Understand
BS 251.3	Analyze and evaluate various facility alternatives and their capacity decisions, develop a balanced line of production and scheduling and sequencing techniques m	Analyze
BS 251.4	Develop a capacity plans and MPS in operation environments.	Create
BS 251.5	Plan and implement suitable materials handling principles and practices in the operations.	Evaluate
BS 251.6	Plan and implement suitable quality control measures in Quality Circles to TQM.	Analyze



Faculty Signature

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Course Outcomes

Course Name : ***Statistics for Business Decisions***

Course Code :BS 141

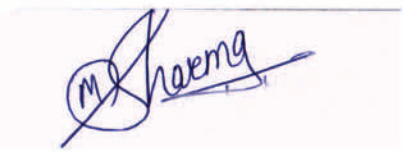
Year : BBA I Year

Semester : I Semester

Faculty Name :Dr. Meena Sharma

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
BS 141.1	Understand relevance and need of quantitative methods for making business decision and collection of data	Understand
BS 141.2	Understand the statistical measures of central tendency	Understand
BS 141.3	Summarize data sets using Descriptive statistics and measure of Dispersion	Evaluate
BS 141.4	Analyse the relationship between two variables (using Correlation and Regression)	Analyse
BS 141.5	Apply statistics to different managerial situations	Apply
BS 141.6	Understand the index numbers and their uses and Aggregative and average of relatives- simple and weighted and construct the problems using BSE SENSEX and NSE NIFTY.	Evaluate



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Course Outcomes

Course Name : ***Organisational Behaviour***

Course Code : CP 141

Year : I Year

Semester : I Semester

Faculty Name : Dr. BS Rathore

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
CP 141.1	Discuss the development of the field of organizational behaviour and explain the micro and macro approaches.	Understand
CP 141.2	Analyse and compare different models used to explain individual behaviour related to motivation and rewards.	Analyse
CP 141.3	Apply group dynamics and demonstrate skills required for working in groups (team building).	Apply
CP 141.4	Identify the various leadership styles and the role of leaders in a decision making process.	Evaluate
CP 141.5	Explain organizational culture and describe its dimensions and to examine various organizational designs.	Understand
CP 141.6	Illustrate how to apply appropriate terminologies, facts, concepts, principles, analytic techniques, and theories discussed during the course when analysing factual situations with organizational behaviour problems.	Create

Faculty Signature

Course CP 161: *Marketing Management I*

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
CP 161.1	Understand the transition from conventional marketing (marketing-mix) model to value based strategic marketing framework	(Understand)
CP 161.2	Explore different dimensions of consumer behavior and their strategic translation into value drivers that would be the foundation of corporate strategic business models;	(Understand)
CP 161.3	Be aware of concepts, characteristics, impact and dimensions of marketing Environmental Assessment (Value Definition)	(Apply)
CP 161.4	Understand need for information for marketing decisions and, the role of market intelligence and develop and conduct marketing research activities.	(Apply)
CP 161.5	Assess features of market in terms of opportunities and challenges for defining and identifying most profitable and sustainable markets with distinctions in terms of value with respect to resource capabilities; Be able to understand Market Segmentation, Targeting & Positioning and formulate Value Proposition.	(Apply)

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Course Outcomes

Course Name : ***Women Leadership and Business***

Course Code : CP 171

Year : I Year

Semester : I Semester

Faculty Name : Dr. BS Rathore

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
CP 171.1	Uncover and understand the unique challenges, constraints, and opportunities that face women today.	Understand
CP 171.2	Think critically about the kinds of interpersonal, social, and cultural changes that are necessary to support women's advancement in positions of power and authority.	Evaluate
CP 171.3	Align leadership strategy and style with personal values and self-image.	Apply
CP 171.4	Build leadership potential through Self-awareness, Emotional intelligence, Teams Management, Interpersonal skills, Conflict management and Effective negotiations.	Create
CP 171.5	Develop a Leadership Style by Leading with authenticity, formulating strategies for implementing personal change, Managing diversity inclusion.	Create
CP 171.6	Apply leadership in organizational functioning – Finance, Marketing, HR and Operations Management of systems.	Apply

Faculty Signature

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Course Outcomes

Course Name: **Quantitative Analysis for Managerial Applications-I**

Course Code: FA 361

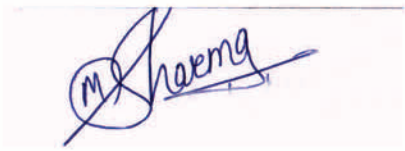
Year: BBA III Year

Semester: V Semester

Faculty Name: Dr. Meena Sharma

At the end of the course, the student will be able to:

CO	CO statement	Taxonomy
FA361.1	Develop a general understanding of the quantitative techniques approach to decision making.	Understand
FA361.2	Understand the probability concept their approaches and theorem.	Understand
FA361.3	Able to understand, analyze & formulate probability distribution in business.	Analyze
FA361.4	Understand the characteristics of queuing system and evaluate the models and practical applications.	Evaluate
FA361.5	Able to use of linear programming and Graphical Techniques.	Analyze
FA361.6	Decision making under various problems to using Decision tree analysis.	Create



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Course Outcomes

Course Name : ***Organisation Development System***

Course Code : HR 203

Year : II Year

Semester : III Semester

Faculty Name : Dr. BS Rathore

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
HR 203.1	Manage the behavioural changes of the stakeholders based on their knowledge on human communication and change management.	Analyse
HR 203.2	Develop and gain the ability to implement tools of intervention to effectively bring about major change in a way that gains support of organization members.	Apply
HR 203.3	Gain a general understanding of organizational change and development concepts and develop an understanding of possible change instruments and their field of use.	Understand
HR 203.4	Reflect on different leadership styles and their importance in a change process.	Analyse
HR 203.5	Apply change concepts to a real case example and transfer this knowledge to their own working environment.	Apply
HR 203.6	Formulate an approach and business case for organization development in response to appropriate organizational diagnosis, business imperatives and internal and external contextual forces.	Create

Faculty Signature

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Course Outcomes

Course Name : ***International Business***

Course Code : BM 331

Semester : VI Semester

Faculty Name : Dr. D. Suresh Kumar

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
BM 331.1	Engage at a near expert's level with the minutiae of the most essential and necessary dimensions of international business as an enterprise that functions at the cusp of management, geopolitics, economics and international laws.	Understand
BM 331.2	Analyse and strengthen the cross section of each and every single process necessary to the evolution of effective and efficient international business models, modules for data integration, concretising insights, creating a sharp and incisive understanding of cultural sensitivities necessary to the seamless operation of international business enterprises.	Analyse
BM. 331.3	Apply and execute timely strategies and tactics that allow for understanding and categorising the weaknesses and strengths of competitive entities, develop protocols and standard operating procedures for dealing with complex governmental concerns, international public policy frameworks and commercial process to facilitate maximum effectiveness in terms of operations.	Apply
BM 331.4	Develop extremely robust and precise means of designing, organising, solidifying and enhancing international business	Evaluate

Suresh

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Course Outcomes

Course Name : ***International Business***

Course Code : BM 331

Semester : VI Semester

Faculty Name : Dr. D. Suresh Kumar

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
BM 331.1	Engage at a near expert's level with the minutiae of the most essential and necessary dimensions of international business as an enterprise that functions at the cusp of management, geopolitics, economics and international laws.	Understand
BM 331.2	Analyse and strengthen the cross section of each and every single process necessary to the evolution of effective and efficient international business models, modules for data integration, concretising insights, creating a sharp and incisive understanding of cultural sensitivities necessary to the seamless operation of international business enterprises.	Analyse
BM. 331.3	Apply and execute timely strategies and tactics that allow for understanding and categorising the weaknesses and strengths of competitive entities, develop protocols and standard operating procedures for dealing with complex governmental concerns, international public policy frameworks and commercial process to facilitate maximum effectiveness in terms of operations.	Apply
BM 331.4	Develop extremely robust and precise means of designing, organising, solidifying and enhancing international business	Evaluate

Suresh

Course MM 203: ***Consumer Behavior***

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
MM 203.1	Understand consumer behavior in an informed systematic way and the interrelationship with other functional areas of business as part of the management process.	(Understand)
MM 203.2	Understand the processes used when individuals, group or organizations make consumption decisions	(Understand)
MM 203.3	Assess and evaluate the factors, internally and externally, through which we understand consumer behaviour	(Evaluate)
MM 203.4	Apply relevant consumer behaviour theories in understanding the impact of marketing strategies	(Apply)
MM 203.5	craft particular messages to appeal to consumers and to understand the strategic importance of this process for businesses.	(Create)
MM 203.6	Develop critical and reflexive understandings of the nature of consumption, markets and culture	(Understand)

Course MM 223: *Marketing of Services*

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
MM 223.1	Examine the nature of services and understand distinctive features of services and key elements in services marketing	(Understand)
MM 223.2	Understand peculiarities of consumer behavior with respect to services	(Understand)
MM 223.3	Appraise the nature and development of a services marketing strategy to enhance customer satisfaction.	(Apply)
MM 223.4	Demonstrate Applications of Service Marketing in Tourism, Hospitality, Airlines, Banking etc.	(Apply)
MM 223.5	Providing insight into ways to improve service quality and productivity through GAPS Model	(Evaluate)
MM 223.6	Design service blueprints and essential and peripheral physical evidence elements.	(Create)

Course MM 233: ***Sales and Distribution Management***

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
MM 233.1	Identify issues related to design and implementation of Sales Strategy including sales forecasting, budgeting, quotas and territories design and management.	(Understand)
MM 233.2	Understand and manage salesforce issues from recruiting to motivating and compensating.	(Understand)
MM 233.3	Be adept at selling through proper understanding of the process of selling.	(Apply)
MM 233.4	Define Marketing Channels and Functions and Significance, Structure - Vertical and Horizontal, Symbiotic, Role of marketing channels in the dynamic market place.	(Apply)
MM 233.5	Develop and manage channels of distribution with understanding of Wholesale and Retail strategy	(Create)
MM 233.6	Understand the importance of concept of supply chain Management, role of inventory, transportation and warehousing in providing place and time utility for customers.	(Understand)

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Course Outcomes

Course Name : ***Production and Operations Management***

Course Code : BS 251

Semester : IV Semester

Faculty Name : Dr. Kailash Choudhry.

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
BS 251.1	Engage with unrelenting focus on the most important and decisive dimensions of production and operations in terms of JIT management, Goldratt's principles, mission control aspects with specific focus on ensuring that the next step in the process is treated as a customer with ample flexibility to accommodate variations and disruptions.	Understand
BS 251.2	Analyse and interpret the nodes and cross functional areas where production and operational management coalesce with areas such as personnel deployment, sales and marketing, financial outlays, cost management, project management with the purpose of effective algorithm development, model finalisation, data management, close quarter determination of highly scientific research of global standards and levels.	Analyse
BS. 251.3	Learn to apply high precision and competitive tools and mechanism for production management and operations management where error reduction, efficiency maximisation and overall corrective mechanisms are fully present and active.	Apply
BS 251.4	Distinguish the mechanisms of ineffective production and operations management from highly effective production	Evaluate

Kailash

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Course Outcomes

Course Name : ***Supply Chain Management***

Course Code : CP 303

Semester : IV Semester

Faculty Name : Dr. Kailash Choudhry

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
CP 303.1	Comprehend at a level not limited to that of an expert's but engage at the level of an expert with the finest nuances of the imperative and pivotal aspects of supply chain management as a critical function that involves logistics, costing, inventory management, marketing, economics, and production dynamics.	Understand
CP 303.2	Analyse and develop a close bond among all the critical and semi critical processes needed for the growth of robust and seamless supply chain models, methods for anticipating bottle necks, solidifying insights, creating a comprehensive and time-tested mechanism to deal with contingencies created by competitors needed for an undisrupted flow of supply chain operations based on varying scales of businesses.	Analyse
BM. 331.3	Apply and implement time bound tactics and strategies that encourage comprehension and classifying the areas of improvements and areas of core strengths of competitors and self over various time periods, establish modus operandi and procedures of exact precision to deal with challenging policy level concerns, interstate transport frameworks and	Apply

Kailash

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Course Outcomes

Course Name: Management Science

Course Code: CP 151

Year: I Year

Semester: I Semester

Faculty Name: Dr. Brajesh Awasthi

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
CP151.1	Explain basic concepts of model building for business decisions	Understand
CP151.2	Apply the linear programming models for optimal analysis	Apply
CP151.3	Analyze the different kinds of methods for solving transportation problems	Analyze
CP151.4	Apply PERT and CPM in Project and Operations management	Apply
CP151.5	Apply Simulation techniques for business decision makring	Apply
CP151.6	Evaluate the roles of Game theory, Queuing theory and Decision theory in decision making	Evaluate

Brajesh

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Course Outcomes

Course Name: Business Analytics

Course Code: CP 301

Year: II Year

Semester: III Semester

Faculty Name: Dr. Brajesh Awasthi

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
CP301.1	Explain basic concepts of Business Analytics	Understand
CP301.2	Apply descriptive analytics for visualization and exploration of data	Apply
CP301.3	Apply predictive analytics like regression analysis for forecasting and statically analysis	Apply
CP301.4	Apply prescriptive analytics for optimization of regression analysis with trend and seasonality components	Apply
CP301.5	Analyze the role of R programming in regression modeling	Analyze
CP301.6	Evaluate Decision making modeling under uncertainty and Monte Carlo Simulation	Evaluate

Brajesh

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Course Name: International Economics and Business

Course Code: CP 302

Year: II Year

Semester: III Semester

Faculty Name: Dr. Pradeep Kautish

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
CP302.1	Explain various theories and practices of international trade.	Understand
CP302.2	Evaluate the role of various Regional Blocks in international trade	Evaluate
CP302.3	Analyze the different kinds of entry strategies and strategic alliances and International Production	Analyze
CP302.4	Analyze export management and India's foreign trade policies	Analyze
CP302.5	Apply the international marketing strategies for internationalization of business	Apply
CP302.6	Analyze strategic issues in international management, corporate governance and corporate social responsibility	Analyze

Pradeep

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Course Outcomes

EM 191 Principles of Economics - I

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
EM191.1	Describe the relevance of microeconomic objectives	Understand
EM191.2	Explain the basic Principles of Economics	Understand
EM191.3	Evaluate the basic concepts, terminology, methodology and theory used by economists to describe the workings of market based economies,	Evaluate
EM191.4	Analyze both product and resource markets and how they operate	Analyze
EM191.5	Apply the micro concepts in the real world situations by individual economic agents like individuals, firms, or industries.	Apply
EM191.6	Apply the basic concepts of international economics.	Apply

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Course Outcomes

Course Name: Indian Economy- I

Course Code: EM 231

Year: II Year

Semester: III Semester

Faculty Name: Dr. Neeta Jain

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
EM231.1	Describe the relevance of Colonialism in underdevelopment of the economy	Understand
EM231.2	Explain the structure of Indian Economy	Understand
EM231.3	Evaluate the role of state policies during colonialism on India's underdevelopment	Evaluate
EM231.4	Analyze the broad demographic structure of Indian economy	Analyze
EM231.5	Analyze the role of planning and economic reforms on India's Economic growth	Analyze
EM231.6	Evaluate the relevance of liberalization, privatization and globalization in India's Economic growth	Evaluate

Neeta Jain

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Course Outcomes

EM 271 Data Analysis - I

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
EM271.1	Explain the difference between various measures of central tendency and different tools of statistical analysis	Understand
EM271.2	Analyze the different kinds of data using different statistical analysis	Analyze
EM271.3	Apply the various statistical tools to analyze and interpret the different types of datasets.	Apply
EM271.4	Evaluate the accuracy and significance of different kinds of data analysis tools	Evaluate
EM271.5	Apply the software of MS Excel and SPSS for statistical data analysis	Apply
EM271.6	Create different kinds of graphs, histograms, Box plot, dot plot	Create

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Course Outcomes

EM 303 International Economics - I

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
EM303.1	Explain the importance of international trade and various theories related to International Trade	Understand
EM303.2	Analyze the impact of international trade on Economic Growth and overall welfare of the different stakeholders	Analyze
EM303.3	Evaluate the impact of international trade on Economic Growth and overall welfare of the different stakeholders	Evaluate
EM303.4	Apply the various theories of international trade to justify the different kinds of economic policies	Apply
EM303.5	Explain the importance of WTO and various kinds of economic integration	Understand
EM303.6	Analyze the different kinds of trade restrictions and the impact of the same on the economic welfare	Analyze

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Course Outcomes

Course Name: Micro-Economics- III

Course Code: EM 371

Year: III Year

Semester: V Semester

Faculty Name: Dr. Avantika Rajauria

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
EM371.1	Describe the characteristics of Oligopoly	Understand
EM371.2	Analyze the Price and Output determination in Oligopoly	Analyze
EM371.3	Apply the Game Theory and Prisoners Dilemma to explain the behavior of firms under Oligopoly	Apply
EM371.4	Analyze interrelations and interdependence of markets	Analyze
EM371.5	Apply the General Equilibrium in Exchange and Production	Apply
EM371.6	Evaluate the role of General Equilibrium in Welfare Economics	Evaluate

Avantika

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Course Outcomes

EM 381 Public Finance - I

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
EM381.1	Explain the basic tools, concepts and models pertaining to Public Goods & Public Finance	Understand
EM381.2	Analyze various policy challenges facing governments around the world and learn to find solutions to these challenges, taking into account obstacles to implementation	Analyze
EM381.3	Analyze the importance of public expenditure management	Analyze
EM381.4	Evaluate the union budget in terms of achievement of various macroeconomic objectives	Evaluate
EM381.5	Evaluate the impact of various provisions related to Direct and Indirect Taxes	Evaluate
EM381.6	Apply the various models of public finance related to public expenditure and revenue	Apply

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Course Outcomes

FM 223 Banking & Insurance Management

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
FM223.1	Explain basic concepts of financial services, banking and insurance.	Understand
FM223.2	Describe various functions of banking operations and the management thereof.	Understand
FM223.3	Analyze the different kinds of risks associated with banking operations, and the tools & techniques available for managing these risks.	Analyze
FM223.4	Apply different kind of quantitative & qualitative tools to ensure effective & efficient banking operations.	Apply
FM223.5	Apply the basic concepts, practices and products related to General as well as Life Insurance.	Apply
FM223.6	Evaluate different kinds of policies & strategies related to financial services, banking and insurance.	Evaluate

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Course Outcomes

Course Name: **Managerial Economics**

Course Code: CP 111

Year: I Year

Semester: I Semester

Faculty Name: Dr. Rajesh Sharma

At the end of the course, the student will be able to:

CO	CO statement	Taxonomy
CP 111.1	Understand the role of managerial economics in decision making process	Understand
CP 111.2	Evaluate the need and relevance of demand and supply behaviour in the decision making process	Evaluate
CP 111.3	Highlight the various concepts of production function and cost theory	Remember
CP 111.4	Analyse the relationship between various types of cost curves with the help of examples	Analyse
CP 111.5	Create the differences between various forms of market for with the help of relevant examples	Create
CP 111.6	Apply the cost, production, and demand supply curves to exhibit the profits or losses in different forms of markets	Apply

Dr. Rajesh Sharma

Faculty Signature

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Course Outcomes

Course Name: ***Management Accounting***

Course Code: CP 121

Year: I/IV Year

Semester: I/VII Semester

Faculty Name: Dr. Manish Didwania

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
CP 121.1	Apply and analyse managerial accounting and its objectives in a way that demonstrates a clear understanding of ethical responsibilities.	Understand
CP 121.2	Prepare various costing schedules where an analysis of cost classification, behaviour, and type is completed.	Apply
CP 121.3	Apply and analyse different types of activity-based management tools through the preparation of estimates.	Apply
CP 121.4	Analyse cost-volume-profit techniques to determine optimal managerial decisions. Prepare analyses of various special decisions, using relevant costing and benefits.	Analyse
CP 121.5	Prepare a master budget and demonstrate an understanding of the relationship between the components for variance analysis.	Evaluate
CP 121.6	Outline and Neo concepts for decision make such as the responsibility accounting, Target Costing, Value Chain Analysis and Life cycle costing.	Understand

Faculty Signature
Manish Didwania

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Course Outcomes

Course Name: **Economic History of India 1857-1947**

Course Code: EM 181

Year: I Year

Semester: I

Faculty Name: Dr. Rajesh Sharma

At the end of the course, the student will be able to:

CO	CO statement	Taxonomy
EM 181.1	Analyse the economic conditions of India at the time of British rule	Analyse
EM 181.2	Understand the national income structure and role of various sectors in the Indian Economy	Understand
EM 181.3	Evaluate the agricultural and industrial growth pattern in the British era	Evaluate
EM 181.4	Mention the causes of famines and deindustrialization in the British era	Remember
EM 181.5	Determine the strength and weaknesses of different market systems	Apply
EM 181.6	Create the an effective policy framework which helps in addressing the foreign trade issues in India	Create

Rajesh Sharma

Faculty Signature

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Course Outcomes

Course Name: **Micro Economics I**

Course Code: EM 241

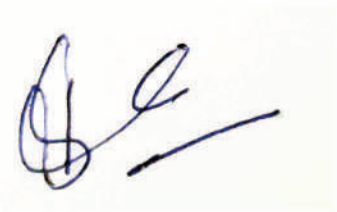
Year: II Year

Semester: III Semester

Faculty Name: Dr. Rajesh Sharma

At the end of the course, the student will be able to:

CO	CO statement	Taxonomy
EM 241.1	Understand the consumer behaviour using the utility concepts	Understand
EM 241.2	Apply the consumer theory to understand the policies of government and other stakeholders	Apply
EM 241.3	Evaluate the relevance of demand behaviour using the concepts of normal, complementary, and substitute goods	Evaluate
EM 241.4	Analyse the equilibirium conditions for a producer to be in equilibrium using the concept of short-run and long-run production	Analyse
EM 241.5	Mention the various kinds of cost curves and remember them for further treatment	Remember
EM 241.6	Create a hypothetical example wherein various kinds of costs curves to be discussed	Create



Dr. Rajesh Sharma

Faculty Signature

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Course Name : Macroeconomics I
Course Code : EM 251
Year : II
Semester : III
Faculty Name : Kshitiz Jangir

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
EM 251.1	Understand the various concepts of Macroeconomics	Understand
EM 251.2	Apply the various models of macroeconomic theory	Apply
EM 251.3	Understand the concepts related to National income	Understand
EM 251.4	Understand the classical theories of output and employment	Understand
EM 251.5	Understand the basics of Keynesian Theory of income and employment	Understand
EM 251.6	Analyze classical and Keynesian theories and the difference between them	Evaluate

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Course Name : Monetary Economics I
Course Code : EM 313
Year : III
Semester : V
Faculty Name : Kshitiz Jangir

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
EM 313.1	Understand the various concepts of Demand for Money	Understand
EM 313.2	Understand the theories related to supply of money	Understand
EM 313.3	Understand the concepts of monetary policy	Understand
EM 313.4	Evaluate the various policies of government in relation to liquidity of money and interest rates	Evaluate
EM 313.5	Understand the banking system of India	Understand
EM 313.6	Understand the credit creation process	Apply

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Course Outcomes

Course Name: **Elementary Econometrics**

Course Code: EM 371

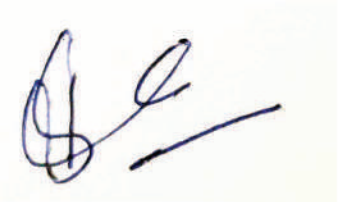
Year: III Year

Semester: V Semester

Faculty Name: Dr. Rajesh Sharma

At the end of the course, the student will be able to:

CO	CO statement	Taxonomy
EM 371.1	Understand the basic concepts of econometrics	Understand
EM 371.2	Create hypothetical examples to describe the regression analysis	Create
EM 371.3	Apply the tools of econometrics to solve the practical problems	Apply
EM 371.4	Analyse the diagnostic tests and provide their desirability in model building process	Analyse
EM 371.5	Understand and remember the consequences of multicollinearity and autocorrelation on the computed results	Remember
EM 371.6	Evaluate the differences between a well-fitted and poorly-fitted models	Evaluate



Rajesh Sharma

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Course Outcomes

Course Name: ***Statistics for Economics - I***

Course Code: EM 171

Year: I Year

Semester: I Semester

Faculty Name: Dr. Manish Didwania

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
EM 171.1	Describe and discuss the key terminology, concepts tools and techniques used in business statistical analysis along with collection, classification and tabulation of data.	Understand
EM 171.2	Critically evaluate the underlying assumptions of analysis tools in different fields with respect to central tendency.	Apply
EM 171.3	Understand and critically discuss the issues surroundings related to deviations in data with respect to measures of dispersion.	Apply
EM 171.4	Discuss critically the uses of correlation analysis and its limitations in statistical analysis.	Apply
EM 171.5	Solve a range of problems using the techniques covered in regression analysis.	Apply
EM 171.6	Conduct basic statistical analysis of data with respect to Index Numbers as cost-of-living index.	Evaluate

Faculty Signature
Manish Didwania

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Course Name: ***Corporate Accounting***
Course Code: FA 211
Year: II Year
Semester: IV Semester
Faculty Name: Sukriti Khatri

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
FA 211.1	Select the appropriate accounting techniques and perform the accounting treatment for issue, forfeiture, reissue, buy back, redemption of equity and preference shares in different types of accounting situations.	Apply
FA 211.2	Perform the accounting treatment for Sweat Equity Shares, Employee Stock Option, Right shares, Bonus shares and Buyback of Equity shares.	Apply
FA 211.3	Understand and prepare the Final Accounts of the Company.	Apply
FA 211.4	Perform the accounting treatment for issue and redemption of the debentures by a company.	Apply
FA 211.5	Calculate an estimate of the value of goodwill of the company.	Apply
FA 211.6	Calculate an estimate of the value of shares of the company.	Apply

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Course Outcomes

Course Name: Industrial Relations

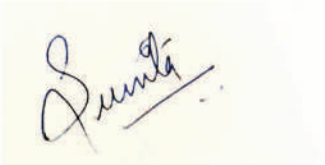
Course Code: HR 223

Year: II

Semester: IV

Faculty Name: Dr. SunitaVerma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
HR 223.1	Discuss the nature, evolution, environment, actors and approaches to Industrial Relations.	Understand
HR 223.2	Illustrate the role of trade unions, types, problems, challenges and trade union act 1926 and IR policies.	Apply
HR 223.3	Learn provisions related to grievance handling mechanism and find out the linkage between Industrial relations and human resource performance.	Analyse
HR 223.4	Outline the important causes and impact of Industrial disputes and its settlement machineries.	Apply
HR 223.5	Know the concept of industrial democracy and strategies to make participation more effective.	Apply
HR 223.6	Study labour legislation in India and its applicability.	Apply



Signature of the faculty

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School of Management Studies

Course Outcomes

Course Name: ***Business Statistics*** Course Code: CP 131

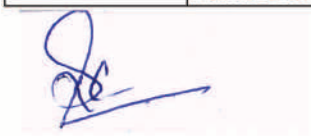
Year: I Year

Semester: I Semester

Faculty Name: Mr. Sumit Kulshrestha

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
CP 131.1	Review the meaning and understanding of Statistics and its application to the modern business.	Understand
CP 131.2	Apply different methods, techniques and models on statistics that adhere to best-practice principles.	Apply
CP 131.3	Apply complex problems into simple conceptual models to get the desired outcome by statistical methods.	Apply
CP 131.4	Analyse the techniques to solve the complex problems in the meaningful environments to find the alternate solutions of problems.	Analyse
CP 131.5	Evaluate the value and use of models to finalized situation and potential future solutions of business problems.	Evaluate
CP 131.6	Design and construct models, forecast the solutions that adhere to best-practice principles and variables which analyse earlier in the alternative solutions.	Create



(Sumit Kulshrestha)

Faculty Signature

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Course Outcomes

Course Name: ***Corporate Finance*** Course Code: FM 213

Year: II Year

Semester: III Semester

Faculty Name: Mr. Sumit Kulshrestha

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
FM 213.1	Understand the financial problems against best practices principles of corporate finance.	Understand
FM 213.2	Apply different valuation tools and techniques in the corporate finance that adhere to best-practice principles	Apply
FM 213.3	Analyse and find the solutions of valuation problems.	Analyse
FM 213.4	Evaluate and apply pertinent analysis techniques to solutions which support in decision making process.	Evaluate
FM 213.5	Define the value and use of financial models to understand the current financial situation and analyse the potential future performance of a business.	Remember
FM 213.6	Design and construct financial models that adhere to best-practice principles and support the decision making process.	Create

(Sumit Kulshrestha)

Faculty Signature

SCHOOL OF BUSINESS

Course Outcomes

Course Name : Transport Management

Course Code : TT131

Year: 1st Year

Semester: Autumn (2019-20)

Faculty Name: Dr .KC Gandhi

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
TT 131.1	Introduction of Transport System , History and Modes of Transport	Learning
TT131.2	Aviation Industry. History and its growth and contribution in the growth of GDP	Understand
TT131.3	Important International and national Aviation Organisations. IATA, ICAO AAI, DGCA. MOCA	Understanding
TT 131..4	Development and history of Railways in the world, and India	Application
TT 131..5	Major Railway's system of the world. Introduction to Luxury Railways in India	Learning
TT 131..6	Introduction and overview of road transport industry in the world and in India; past, present and future scenario	Learning
TT 131.7	Water transport system of the world and of India	Learning

(Dr KC GANDHI)

SCHOOL OF BUSINESS

Course Outcomes

Course Name : Principles of Management

Course Code : TT 141

Year: I Year

Semester: Autumn Semester

Faculty Name: Dr. Sanjay Joshi

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
TT 141.1	Basic management concepts, principles and practices	Remember
TT 141.2	Overview of Managerial functions	Understand
TT 141.3	Decision making techniques in tourism management	Apply
TT 141.4	Different motivational theories	Analyse
TT 141.5	The different principles of effective control	Evaluate
TT 141.6	Differentiating between formal and informal organization	Create

SCHOOL OF BUSINESS

Course Outcomes

Course Name : Tourism Resources of India

Course Code : TT 121

Year: I Year

Semester: Autumn Semester

Faculty Name: Dr. Sanjay Joshi

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
TT 121.1	Awareness about the tourism resources	Remember
TT 121.2	Know different types of tourism resources & their importance for tourism industry	Understand
TT 121.3	Techniques for conservation & protection of tourism resources	Apply
TT 121.4	The role of service providers	Analyse
TT 121.5	The importance of heritage sites in tourism sector	Evaluate
TT 121.6	Develop a marketing plan for the tourism resources	Create

SCHOOL OF BUSINESS

Course Outcomes

Course Name : Customer Services

Course Code : TT213

Year: 2nd Year

Semester: Autumn (2019-20)

Faculty Name: Dr .KC Gandhi

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
TT 213.1	Understand customer and the service provider and customer satisfactions	Learning
TT213.2	Quality and standards off customer satisfactions	Understand
TT132.3	Areas of customer satisfaction and organizational culture	Learning
TT 213.4	Customer fad back and its analyzing methods	Application
TT 213.5	Online Grooming and Etiquette Telephone Handling Skills.	Application
TT 213.6	Complaint Management and Transactional Analysis in Customer Care	Learning

(Dr K C Gandhi)

SCHOOL OF BUSINESS

Course Outcomes

Course Name: Introduction to Tourism & Travel

Course Code: TT111

Year: I Year

Semester: Autumn Semester

Faculty Name: Dr.Sanjay Joshi

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
TT111.1	Know the basic and preliminary knowledge of tourism	Remember
TT111.2	To know the concepts, systems and trends in tourism	Understand
TT111.3	To move forward to Interact with the advanced knowledge pertaining to tourism	Apply
TT111.4	Contemporary trends in Indian Tourism	Analyse
TT111.5	Growth pattern of Indian Tourism Industry	Evaluate
TT111.6	Travel circuits for brand image	Create

SCHOOL OF BUSINESS

Course Outcomes

Course Name : Tourism Management

Course Code : TTT 223/AAT 223

Year: II Year

Semester: Autumn Semester

Faculty Name: Dr.Sanjay Joshi

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
TTT 223/AAT 223.1	Different Components of Tourism	Remember
TTT 223/AAT 223.2	Market segmentation & its implications	Understand
TTT 223/AAT 223.3	Developing managerial skills for tourism industry	Apply
TTT 223/AAT 223.4	Concept of management in Tourism sector	Analyse
TTT 223/AAT 223.5	Knowing the different elements of demand & supply factors in Tourism industry	Evaluate
TTT 223/AAT 223.6	To know the means to improve the seasonal character of tourism industry	Create

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Course Outcomes

Course Name : Tourism Management

Course Code : TTT 223/AAT 223

Year: II Year

Semester: Autumn Semester

Faculty Name: Dr.Sanjay Joshi

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
TTT 223/AAT 223.1	Different Components of Tourism	Remember
TTT 223/AAT 223.2	Market segmentation & its implications	Understand
TTT 223/AAT 223.3	Developing managerial skills for tourism industry	Apply
TTT 223/AAT 223.4	Concept of management in Tourism sector	Analyse
TTT 223/AAT 223.5	Knowing the different elements of demand & supply factors in Tourism industry	Evaluate
TTT 223/AAT 223.6	To know the means to improve the seasonal character of tourism industry	Create

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Course Outcomes

Course Name: Geography of Tourism

Course Code: TTT203 / AAT203

Year: II Year

Semester: Autumn Semester

Faculty Name: Dr.Sanjay Joshi

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
TTT203 / AAT203.1	About IATA codes for cities, airports & airlines	Remember
TTT203 / AAT203.2	Developing a familiarity with global geography and to know the importance of Geographical elements in tourism	Understand
TTT203 / AAT203.3	To Learn about different time zones and flying time calculations	Apply
TTT203 / AAT203.4	Verifying the resources for planning air travel itineraries	Analyse
TTT203 / AAT203.5	Different Local Currencies & Country Currency Codes	Evaluate
TTT203 / AAT203.6	Future trends in Intercontinental Transport	Create

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Course Outcomes

Course Name: ***Investing in stocks***

Course Code: BC 252

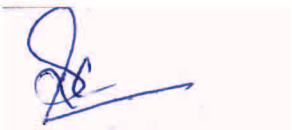
Year: II Year

Semester: IV Semester

Faculty Name: Mr. Sumit Kulshrestha

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
BC 252.1	Understand the concepts of proper investments, risk and investment avenues.	Understand
BC 252.2	Apply the techniques and tools for investment process and selection of proper investment avenues.	Apply
BC 252.3	Analyse the valuation of stock and bond as investment avenues.	Analyse
BC 252.4	To conduct the fundamental and technical analysis of financial assets.	Analysis
BC 252.5	Evaluate the securities selection process for choosing proper investment avenues.	Evaluate
BC 252.6	Integrate the detailed process for Investment avenues identification and selection.	Create



(Sumit Kulshrestha)

Faculty Signature

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Course Outcomes

Course Name: ***Fundamental of Investment***

Course Code: FA 342

Year: III Year

Semester: VI Semester

Faculty Name: Mr. Sumit Kulshrestha

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
FA 342.1	Understand the concepts, tools and techniques of Investment management.	Understand
FA 342.2	Apply the techniques used in selection of security with the support of fundamental analysis and technical analysis.	Apply-
FA 342.3	Analyze the methods and techniques used in selection and valuation of securities.	Analyse
FA 342.4	Apply Portfolio construction techniques and optimal portfolio selection.	Apply
FA 342.5	Evaluate the estimation of capital asset pricing model, equilibrium asset pricing models and portfolio valuation	Evaluate
FA 342.6	Develop the strategy for exhaustive portfolio management process under basic risk management strategies.	Create

(Sumit Kulshrestha)

Faculty Signature

MODY UNIVERSITY OF SCIENCE AND TECHNOLOGY LAKSHMANGARH • RAJASTHAN A Leading Women's University	***School of Business*** ***Course Outcomes***

Program Name: B.Com (H)
Course Name : Organizational Behaviour
Course Code: BC 112
AY: 2019-20
Semester: Spring

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
BC 152.1	Develop an understanding of Communication as a process in an organization and its effect on giving and receiving information	(Understanding)
BC 152.2	Distinguish among various types and levels of organizational communication and communication barriers. Develop Listening skills	(Understanding)
BC 152.3	Demonstrate written communication skills appropriate for business situations and draft effective business correspondence with brevity and clarity.	(Create)
BC 152.4	Demonstrate effective interpersonal skills and the ability to communicate effectively in teams of diverse composition.	(Apply)
BC 152.5	Create and effectively deliver oral presentations and demonstrate verbal and non-verbal communication ability through presentations.	(Create)
BC 152.6	Develop better vocabulary and an understanding of Business language. Discover the impact of changing communication methods on society and business.	(Apply)

Divya

Faculty Name: Dr. Divya Mathur

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Course Name : Corporate Laws
Course Code : BC 122
Year : I
Semester : I
Faculty Name : Kshitiz Jangir

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
BC 122.1	Understand the various concepts and terminologies related to companies in India	Understand
BC 122.2	Understand the process related to formation and registration of companies	Apply
BC 122.3	Learn and understand the legal rules related to various documents and share capital of companies	Understand
BC 122.4	Learn and understand the legal rules related to management and meetings of companies	Understand
BC 122.5	Learn and understand the legal rules related to Accounts, Dividends and Audit of companies	Understand
BC 122.6	Understand the concepts related to Depositories in India	Understand

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Course Name: ***Advanced Financial Accounting***
Course Code: BC 132
Year: I Year
Semester: II Semester
Faculty Name: Sukriti Khatri

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
BC 132.1	Understand the accounting of Departments and prepare their books of accounts.	Apply
BC 132.2	Understand the concept of Royalty and prepare books of accounts of Lessor and Lessee.	Apply
BC 132.3	Understand the advanced issues in accounting such as Hire Purchase and record the Hire Purchase transactions.	Apply
BC 132.4	Understand exactly what a partnership is and prepare accounts relating to the dissolution of a partnership.	Apply
BC 132.5	Understand the accounting of Branch and prepare their books of accounts.	Apply
BC 132.6	Understand the meaning and features of Non-Profit Organisations and prepare Final Accounts of Non-Profit Organizations.	Apply

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Program Name: B.Com (H)
Course Name : Business Communication
Course Code: BC 152
AY: 2019-20
Semester: Spring

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
BC 152.1	Develop an understanding of Communication as a process in an organization and its effect on giving and receiving information	(Understanding)
BC 152.2	Distinguish among various types and levels of organizational communication and communication barriers. Develop Listening skills	(Understanding)
BC 152.3	Demonstrate written communication skills appropriate for business situations and draft effective business correspondence with brevity and clarity.	(Create)
BC 152.4	Demonstrate effective interpersonal skills and the ability to communicate effectively in teams of diverse composition.	(Apply)
BC 152.5	Create and effectively deliver oral presentations and demonstrate verbal and non-verbal communication ability through presentations.	(Create)
BC 152.6	Develop better vocabulary and an understanding of Business language. Discover the impact of changing communication methods on society and business.	(Apply)

Divya

Faculty Name: Dr. Divya Mathur

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Program Name: BBA/ Dual Degree BBA-MBA
Course Name : Organizational Behaviour
Course Code: BS 112
AY: 2019-20
Semester: Spring

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
BS 112.1	Understand the role and importance of Organizational Behaviour and analyze management issues as related to organizational behavior.	(Understanding)
BS 112.2	Compare and contrast theories of organizational behavior. To introduce several theories on management framework, and enable identification of the theories and principles, examine challenges of organizational behavior, and determine when and where the theories and skills are applied.	(Understanding)
BS 112.3	Demonstrate the applicability of the concept of organizational behavior to understand the behavior of people in the organization.	(Apply)
BS 112.4	Demonstrate the applicability of analyzing the complexities associated with management of individual behavior in the organization.	(Apply)
BS 112.5	Analyze the complexities associated with management of the group behavior in the organization.	(Apply)
BS 112.6	Demonstrate how the organizational behavior can integrate in understanding the motivation (why) behind behavior of people in the organization and be able to suggest compensation/motivation tools for people at different levels in the organization	(Create)

Divya

Faculty Name: Dr. Divya Mathur

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Course Name: ***Business Accounting***
Course Code: BS 142
Year: I Year
Semester: II Semester
Faculty Name: Sukriti Khatri

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
BS 142.1	Understand the theoretical basics of accounting and depreciation.	Understand
BS 142.2	Understand the preparation of Financial Statements.	Apply
BS 142.3	Understand the concept of sectional and self balancing system.	Apply
BS 142.4	Understand exactly what a Joint Venture is and prepare accounts relating to the Joint Venture.	Apply
BS 142.5	Understand the accounting of Consignments and prepare their books of accounts.	Apply
BS 142.6	Understand the concept of Insurance claims and learn the calculation of claims in different scenarios.	Apply

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Course Outcomes

Course Name: **Macroeconomics**

Course Code: BS 122

Year: I Year

Semester: II Semester

Faculty Name: Dr. Rajesh Sharma

At the end of the course, the student will be able to:

CO	CO statement	Taxonomy
BS 122.1	Describe the various aspects and tools of macroeconomics such as AD, AS, and S-I	Remember
BS 122.2	Analyse the role of various factors determining the inflation and employment level	Analyse
BS 122.3	By applying various concepts of foreign trade, design a foreign trade policy which may serve the purposes of various stakeholders	Apply
BS 122.4	Understand the working mechanism of Balance of Trade and their relevance	Understand
BS 122.5	Evaluate the impact of taxes and government policies on the private investment	Evaluate
BC 122.6	After understanding the various theory of demand for money, create a list of variables/indicators that are necessary components in an ideal theory of money	Create

Rajesh Sharma

Faculty Signature

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Course Outcomes

Course Name: ***Marketing Management – I***

Course Code: BS 132

Year: BBA I Year

Semester: Spring Semester, 2019-20

Faculty Name: Dr. Ashish Kumar Sharma

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
BS 132.1	Describe the steps in new product development process	Remember
BS 132.2	Explain the basic concepts of marketing management	Understand
BS 132.3	Examine the importance of buyer behaviour and market segmentation while formulating marketing strategy	Apply
BS 132.4	Analyse the various elements of marketing environment	Analyse
BS 132.5	Classify the current product strategies of existing firms	Evaluate
BS 132.6	Formulate pricing strategy for a marketing firm	Create

Faculty Name – Dr. Ashish Kumar Sharma

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Course Outcomes

Course Name: ***Entrepreneurship Development***

Course Code: BS 152

Year: BBA I Year

Semester: Spring Semester, 2019-20

Faculty Name: Dr. Ashish Kumar Sharma

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
BM 152.1	Identify the prominent businessmen of India and describe their business acumen	Remember
BM 152.2	Explain the basic concepts of entrepreneur, entrepreneurship and enterprise	Understand
BM 152.3	Determine the role of SSI's in the development of the nation and their underlying problems	Apply
BM 152.4	Analyse the functioning of EDP organisations	Analyse
BM 152.5	Assess the process of identifying a new business project and its feasibility	Evaluate
BM 152.6	Design a business plan for a new venture	Create

Faculty Name – Dr. Ashish Kumar Sharma

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Course Outcomes

Course Name: ***Advanced Business Statistics***
Course Code: BC 142
Year: BCOM I Year
Semester: II Semester
Faculty Name: Dr. Meena Sharma

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
BC 142.1	Present time series in an informative way, both graphically and with summary statistics.	Create
BC 142.2	Analyse the properties of linear predictor operator, and apply various linear forecasting techniques.	Analyse
BC 142.3	Describe how to translate real-world problems into probability models.	Understand
BC 142.4	Apply the concept of probability to quantify uncertainty and assess business risk.	Apply
BC 142.5	Create the probability density functions of transformations of random variables and use these techniques to generate data from various distributions.	Create
BC 142.6	Describe basic statistics concepts and apply proper sampling methods.	Understand

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Course Outcomes

Course Name: ***Business Environment***

Course Code: BM 332

Year: III Year

Semester: VI Semester

Faculty Name: Dr. BS Rathore

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
BM 332.1	Students would learn to formulate new growth strategies for success, expansion and increasing gains based on the day-to-day developments and the fast-moving world.	Apply
BM 332.2	Understanding the changing nature of business environment and learning about the role of firms and governments, society, economy and technology.	Apply
BM 332.3	Understanding real life situations vis-à-vis economic systems in the country and analyzing the impact of economic reforms on different industries and trends in different sectors of the economy.	Apply
BM 332.4	Outlining the phases of globalization and analyzing the impact of globalization on different sectors.	Create
BM 332.5	Understanding the importance of technology and role of IT in all the business sectors.	Apply
BM 332.6	Examining the social environment of business and the linkage between society and business.	Apply

Faculty Signature

Course Objectives CP 112: *Marketing Management II*

At the end of the course students should be able to:

CO	CO statement	Taxonomy
CP 112.1	To understand Strategic Marketing, Competitive Analysis, Strategic Marketing Alignment and Market Led Strategic Marketing Planning.	(Understand)
CP 112.2	Introduction to marketing metrics and models, Understanding organizational resource base , Marketing Analytics for Marketing Performance Assessment and Control	(Analyze)
CP 112.3	Product and Service Analytics, Product Mix, Perceptual Mapping, Managing the product in Product Life Cycle, Strategic Customer Analysis. Product Marketing: Research & Development Marketing Portfolio Analysis, Branding decisions.	(Analyze and create)
CP 112.4	Price: Meaning and Importance, Pricing objectives, Design of Pricing, Strategic Approaches to pricing and pricing decisions.	(Design)
CP 112.5	Designing marketing channels Distribution channel evaluation, Retail Management decisions	(Create)
CP 112.6	Promotion: Concept and role in marketing, Promotional Mix , Promotional budget allocation and estimation, Impact of technology & Internet on Promotion and promotion metrics and Sales Analytics	(Analyze and Create)

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Course Outcomes

Course Name: ***Human Resource Management***

Course Code: CP 132

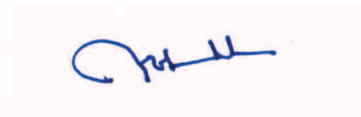
Year: I Year

Semester: II Semester

Faculty Name: Dr. BS Rathore

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
CP 132.1	Contribute to the development, implementation, and evaluation of employee recruitment, selection, and retention plans and processes.	Apply
CP 132.2	Administer and contribute to the design and evaluation of the performance management program.	Apply
CP 132.3	Develop, implement, and evaluate employee orientation, training, and development programs.	Apply
CP 132.4	Facilitate and support effective employee and labor relations in both non-union and union environments.	Create
CP 132.5	Research and support the development and communication of the organization's total compensation plan.	Apply
CP 132.6	Collaborate with others, in the development, implementation, and evaluation of organizational and health and safety policies and practices.	Apply



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Course Outcomes

Course Name: ***Business Ethics and CSR***

Course Code: CP 403

Year: II Year

Semester: IV Semester

Faculty Name: Dr. BS Rathore

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
CP 403.1	Students will demonstrate understanding of the ethical principles in general or in application of specialized knowledge, results of research, creative expression, or design processes.	Apply
CP 403.2	Students will demonstrate an ability to recognize, articulate, and apply ethical principles in various professional, social, or personal contexts.	Apply
CP 403.3	Analyse the connections between corporate strategy and CSR and the impact on foundational organizational principles such as mission and vision.	Apply
CP 403.4	Learning the implications of ethics in the practice of modern marketing (including international trade) and the ways to ensure consumer-friendly marketing practices.	Create
CP 403.5	Learning the importance of good corporate governance in the sustainability of business.	Apply
CP 403.6	Evaluate the level of commitment to CSR of various organizations and explain how it can be a source of competitive advantage.	Apply

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Course Outcomes

Course Name: Statistics for Economics II

Course Code: EM 182

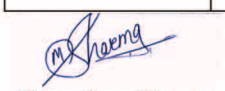
Year: BA I Year

Semester: II Semester

Faculty Name: Dr. Meena Sharma

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
EM 182.1	Describe basic statistics concepts and apply proper sampling methods.	Apply
EM 182.2	Use the basic concepts of probability and Bayes Theorem.	Apply
EM 182.3	Apply correctly a variety of statistical techniques, both descriptive and inferential.	Apply
EM 182.4	Interpret, in plain language, the application and outcomes of statistical techniques.	Understand
EM 182.5	Identify the type of statistical situation to which different distributions can be applied.	Evaluate
EM 182.6	Use Excel to make basic statistical calculations and critically evaluate the basis for these calculations.	Analyze



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Course Outcomes

Course Name: ***Compensation Management***

Course Code: HR 234

Year: II Year

Semester: IV Semester

Faculty Name: Dr. BS Rathore

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
HR 403.1	Understand internally consistent compensation systems and competitive strategy.	Apply
HR 403.2	Understand wage and salary administration of managerial and non-managerial personnel.	Apply
HR 403.3	Comprehend the components of compensation and analyze contextual influence on compensation practices.	Apply
HR 403.4	Integrating the internal job structure with external market pay rates to design a comprehensive compensation structure.	Create
HR 403.5	Strategic use of compensation systems for attracting, motivating, and retaining employees.	Create
HR 403.6	Examine the current state of compensation decision making how recent theoretical and research developments inform compensation decisions and to offer an opportunity to develop competencies in making compensation decisions.	Apply

Faculty Signature

Course Objectives MM 204: ***Integrated Marketing Communications***

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
MM 402.1	Understand The role and importance of IMC approach and the various tools/ elements of the promotion mix.	(Understand)
MM 402.2	Conduct marketing research and analyze and apply these findings to develop competitive and positioning strategies and to select the target audience(s) for the IMC campaign plan.	(Analyze)
MM 402.3	Demonstrate ability to set IMC objectives and evaluate an organization's marketing and promotional situation in order to develop effective communication strategies and programs	(Apply)
MM 402.4	Devise and evaluate creative strategies in the light of given marketing objectives and strategies;	(Evaluate)
MM 402.5	Formulate an IMC budget and analyze and evaluate the cost effectiveness of various forms of media;	(Evaluate)
MM 402.6	Prepare an IMC Plan. Highlighting use of various elements of the promotion mix.	(Create)

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Course Outcomes

Course Name : ***Operations Management***

Course Code : CP 142

Semester : I Semester

Faculty Name : Dr. Kailash Choudhry.

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
CP 142.1	Comprehend with high intensity focus the most essential and detailed aspects of operations management in terms of tactics and strategies necessary for operations management for manufacturing, logistics in terms of costing, predictive analysis and modelling to ensure the highest levels of precision and focus.	Understand
CP 142.2	Analyse and involve the border areas and core areas of all the sequential premises and implementations of the necessities of operations management, contingency planning, concretising timelines, understanding variations in flow and supply in order to develop highly anti fragile mechanisms.	Analyse
RM. 142.3	Apply the most cost efficient and time effective tools and methods of designing the best means for operations management in terms of steady flow, variations, summations and distributions process to maximise efficacy and precision.	Apply
RM 142.4	Develop the ability to discern between operational planning that is focused, detail oriented and statistically robust and operational designs and plans that do not possess the requisite rigour, focus and depth.	Evaluate

Kailash

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Course Outcomes

Course Name : ***Project Management***

Course Code : CP 402

Semester : V Semester

Faculty Name : Dr. Kailash Choudhry.

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
CP 402.1	Examine with care and precision the most essential and mapped out dimensions of project management as a thread that binds all the important fields of management in the folds of excellence.	Understand
CP.402.2	Analyse and interpret all the essential dimensions informing each step backed up by logical conclusions, stand up meetings, traction speeds, iterations and algorithms to develop highly effective project management.	Analyse
CP. 402.3	Apply the highest levels of dedication and with regards to the mechanisms and tools most necessary for the development of project planning designs and structures to enrich the mechanisms of project planning, project execution that establish a highly precise formulation and practice.	Apply
CP 402.4	Distinguish between highly effective project research plans, applications, foci areas, points of diversions and less effective designs that possess only apparent and sub surface level efficacy in order to prevent any issues in terms of execution, precision and contingency planning.	Evaluate

Kailash

School of Business

Course Outcomes

Course Name: Human Resource Management II

Course Code: BM 242

Year: II

Semester: IV

Faculty Name: Dr. Sunita Verma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BM 242.1	Understand the concept, importance of Industrial Relations, Industrial conflicts and Dispute Settlement Machineries.	Understand
BM 242.2	Facilitate and support effective employee and labour relations in both non-union and union environments.	Create
BM 242.3	Develop collective bargaining and negotiation skills.	Apply
BM 242.4	Learn the essential pre-requisites of Grievance procedure, Disciplinary procedure.	Understand
BM 242.5	Analyze the forms of employee participation.	Analyse
BM 242.6	Develop, prepare staffing international operations for sustained global growth, recruiting and selecting staff for international assignments	Apply

Signature of the faculty

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Course Outcomes

Course Name: Business Communication

Course Code: BC 152

Year: I

Semester: II

Faculty Name: Dr. Sunita Verma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BC 152.1	Develop an understanding of Communication as a process in an organization and its effect on giving and receiving information	Understand
BC 152.2	Distinguish among various types and levels of organizational communication and communication barriers. Develop Listening skills	Understanding
BC 152.3	Demonstrate written communication skills appropriate for business situations and draft effective business correspondence with brevity and clarity.	Create
BC 152.4	Demonstrate effective interpersonal skills and the ability to communicate effectively in teams of diverse composition.	Apply
BC 152.5	Create and effectively deliver oral presentations and demonstrate verbal and non-verbal communication ability through presentations.	Create
BC 152.6	Develop better vocabulary and an understanding of Business language. Discover the impact of changing communication methods on society and business.	Apply

Signature of the faculty

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Course Outcomes

Course Name: Business Communication

Course Code: BM 162

Year: I

Semester: II

Faculty Name: Dr. Sunita Verma

CO Number	**Course Outcome statement** At the completion of the course, student will be able to	**Taxonomy Level**
BM 162.1	Develop an understanding of Communication as a process in an organization and its effect on giving and receiving information	Understand
BM 162.2	Distinguish among various levels of organizational communication, types of communication and communication barriers. Develop Listening skills	Understand
BM 162.3	Demonstrate written communication skills appropriate for business situations and draft effective business correspondence with brevity and clarity.	Create
BM 162.4	Demonstrate effective interpersonal skills and the ability to communicate effectively in teams of diverse composition and appropriate use of body language	Apply
BM 162.5	Create and effectively deliver oral presentations and demonstrate verbal and non-verbal communication ability through presentations.	Create
BM 162.6	Discover the impact of changing communication methods on society and business.	Apply

Signature of the faculty

School of Business

Course Outcomes

Course Name: Human Resource Development Systems

Course Code: HR 214

Year: II

Semester: IV

Faculty Name: Dr. Sunita Verma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
HR 214.1	Contribute to the development, implementation, and evaluation of employee recruitment, selection, and retention plans and processes.	Apply
HR 214.2	Develop, implement, and evaluate employee orientation, training, and development programs.	Apply
HR 214.3	Develop skills in identifying HRD needs and in designing, implementing and evaluating HRD programs.	Apply
HR 214.4	Explain the strategic importance of HRD in the success of organisations within the context of social and environmental pressure.	Create
HR 214.5	Critically analyse and evaluate contemporary HRD practices.	Apply
HR 214.6	Effectively communicate practical and innovative strategies in relation to career development and professional practice	Apply

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Course Outcomes

Course Name: Performance Management

Course Code: HR 224

Year: II

Semester: IV

Faculty Name: Dr. Sunita Verma

CO Number	**Course Outcome statement** At the completion of the course, student will be able to	**Taxonomy Level**
HR 224.1	Gain an understanding on the various aspects of Performance Management-its objectives, significance, competitive advantage, Linkage to other HR process and various theories.	Understand
HR 224.2	Design an organization's performance management process that is compliant with law and supports organizational mission and strategy.	Create
HR 224.3	Understand the various appraisal methods and Design Performance Appraisal form for achieving effective performance appraisal.	Apply
HR 224.4	Develop various strategies for effective implementation.	Apply
HR 224.5	Understand the linkage between Performance Management and Employee Development.	
HR 224.6	To develop knowledge on the reward management system in the organization and its related legal aspects	Apply
HR 224.7	Develop code of ethics in Performance Management	Create

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Course Outcomes

Course Name : ***Supply Chain Management***

Course Code : CP 172

Semester : II Semester

Faculty Name : Dr. Kailash Choudhry

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
CP 172.1	Comprehend at a level that is of an expert's and engage at the level of a highly adept person with a focus on developing the bases of the pivotal aspects of supply chain management as a an all critical function that involves time management, Pareto's Rule, costing, marketing, economics, and production dynamics.	Understand
CP 172.2	Develop the foundations required to integrate the critical dimensions necessary for the development of stringent and adaptive supply chain models, preventing bottle necks, developing a comprehensive and time-tested mechanism to deal with contingencies posed within and outside the organisation to maintain uninterrupted supply chain operations based on varying scales of businesses.	Analyse
CP.173.3	Learn to implement tactics and strategies that encourage the comprehension and classification improvements and core strengths of competitors and self over various time periods, establish standard operating procedures and challenging policy level concerns to optimise the effectiveness in terms of operations on a short- and long-term basis.	Apply

Kailash

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Course Outcomes

Course Name: ***Communication Skills and Personality Development***

Course Code: TT 152

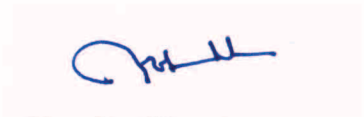
Year: I Year

Semester: II Semester

Faculty Name: Dr. BS Rathore

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
TT 152.1	Understand basic communication skills and personality traits requisite in tourism and hospitality industry jobs.	Understand
TT 152.2	Learn various principles of effective writing letter, Format and features of a good letter, Email writing, Curriculum Vitae and covering letter.	Apply
TT 152.3	Evaluate and understand effective conduct in Group Discussions, Tips for Group Discussion, Clarity of Thoughts and Expression, Delivering Presentation, Basic Qualities in a Public Speaker	Evaluate
TT 152.4	Analyse Personality and its elements, Determinants of Personality, Personality Analysis test -Myers-Briggs Type Indicator (MBTI) Assessment.	Apply
TT 152.5	Learn tactics for Personal Grooming and Corporate Grooming, and Corporate Etiquettes	Create



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SCHOOL OF BUSINESS

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Course Outcomes

CP 152 Business Environment

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
CP152.1	Describe the relevance of business environment	Understand
CP152.2	Analyze and assess the economic environment including fiscal and monetary policy in achieving the various macroeconomic objectives.	Analyze
CP152.3	Explain the various methods of calculating GDP and National Income Accounting	Understand
CP152.4	Evaluate the various components of Business Environment in business decision making.	Evaluate
CP152.5	Apply the tools & strategies to deal with different situations of Business Environment	Apply
CP152.6	Analyze the impact of changing business environment on the business units.	Analyze

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School of Liberal Arts & Sciences

Course Outcomes

Course Name: ***Entrepreneurship Development***

Course Code: BT 324

Year: BSc(H) Biotech and BSc (H) Food & Nutrition III Year

Semester: Spring Semester, 2019-20

Faculty Name: Dr. Ashish Kumar Sharma

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
BT 324.1	Identify the prominent businessmen of India and describe their business acumen	Remember
BT 324.2	Explain the basic concepts of entrepreneur, entrepreneurship and enterprise	Understand
BT 324.3	Determine the role of SSI's in the development of the nation and their underlying problems	Apply
BT 324.4	Analyse the functioning of EDP organisations	Analyse
BT 324.5	Assess the process of identifying a new business project and its feasibility	Evaluate
BT 324.6	Design a business plan for a new venture	Create

Faculty Name – Dr. Ashish Kumar Sharma

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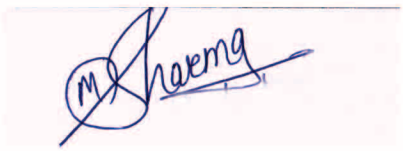
Course Name : Legal Aspects of Business
Course Code : CP 214
Year : II
Semester : IV
Faculty Name : Kshitiz Jangir

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
CP 214.1	Understand the concepts of Business Laws applicable in India	Understand
CP 214.2	Understand the various provisions of Indian Contract Act, The Sales of Goods Act and The Companies Act.	Apply
CP 214.3	Understand the basics of Industrial Laws in India	Apply
CP 214.4	Understand the provisions enumerated for consumer protection in India	Understand
CP 214.5	Understand the competition policy of government with the provisions of the Competition Act.	Evaluate
CP 214.6	Understand the provisions of Information Technology Act	Understand



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School of Management Studies

Course Outcomes

Course Name: ***Business Research Methods***

Course Code: CP 102

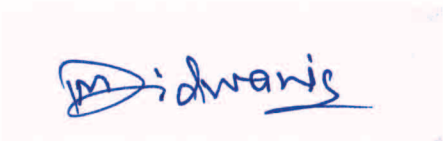
Year: I/IV Year

Semester: I/VIII Semester

Faculty Name: Dr. Manish Didwania

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
CP 102.1	To understand the basics about nature of business research, its process and ethics in research.	Understand
CP 102.2	Have an understanding of various kinds of research, objectives of doing research and its classification of research.	Apply
CP 102.3	Have basic knowledge on qualitative, quantitative as well as measurement & scaling techniques.	Apply
CP 102.4	Be able to formulate research problem and develop a sufficiently coherent research design and collection of data along with sampling process.	Analyse
CP 102.5	Have a basic awareness of data analysis, including descriptive & inferential measures.	Evaluate
CP 102.6	Be able to write & develop independent thinking for critically analysing research reports.	Analyse



Faculty Signature
Manish Didwania

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Course Name: ***Cost Accounting for Managers***
Course Code: FA 162
Year: I Year
Semester: II Semester
Faculty Name: Sukriti Khatri

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
FA 162.1	Describe the basics of Cost Accounting.	Understand
FA 162.2	Analyse and evaluate information for cost ascertainment using Unit Cost Sheet and Job Cost Sheet.	Analyse
FA 162.3	Summarize process cost accounting and prepare a process cost account.	Apply
FA 162.4	Apply standards and budgets for planning and controlling purposes.	Apply
FA 162.5	Learn how costs are analysed for different product costing contexts such as Contact or operating costing.	Apply
FA 162.6	Demonstrate how materials, labor and overhead costs are added to a product at each stage of the production cycle.	Apply

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Course Outcomes

Course Name: ***Financial derivatives and risk management***

Course Code: FM 401

Year: II Year

Semester: VI Semester

Faculty Name: Mr. Sumit Kulshrestha

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
FM 401.1	Understand the use of derivatives throughout the global financial system and the systemic risks that they can create	Understand
FM 401.2	Analyse detailed and critical appreciation of the use of a range of derivatives for hedging, speculating and arbitrage and the trading / settlement systems that are used by market participants.	Analyse
FM 401.3	Undertake complex calculations and analysis to demonstrate the use and pricing of fixing (i.e. futures, forward and swaps) and options instruments	Apply
FM 401.4	Evaluate the pricing and use of derivatives, such as credit and weather derivatives.	Evaluate
FM 401.5	Understand the hybrid derivatives pricing.	Understand
FM 401.6	Develop the model and strategies for the ways in which hybrid derivatives traded and the standards required of the market participants when trading them.	create

(Sumit Kulshrestha)

Faculty Signature

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Course Outcomes

Course Name: ***Financial Management*** Course Code: CP 122

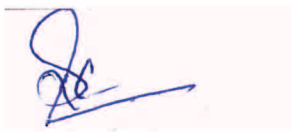
Year: I Year

Semester: II Semester

Faculty Name: Mr. Sumit Kulshrestha

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
CP 122.1	Review the financial management concepts against best practices principles.	Understand
CP 122.2	Apply different method of financial management that adhere to best-practice principles	Apply
CP 122.3	Apply the methods and principles of Capital structure into simple conceptual models	Analyse
CP 122.4	Evaluate and apply pertinent techniques and methods to solve problems in long term and short term decision making.	Evaluate
CP 122.5	Describe the value and use of financial methods and theories to understand the current financial situation and analyse the potential future performance of a business by using dividend theories.	Understand
CP 122.6	Design and construct financial models that adhere to best-practice principles and theories on behavioural understanding of investors.	Create



(Sumit Kulshrestha)

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Program Name: BBA/ Dual Degree BBA-MBA
Course Name : Strategic Brand Management
Course Code: MM 244
AY: 2019-20
Semester: Spring

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
MM 244.1	Develop understanding of the importance of brand equity	(Understand)
MM 244.2	Analyze scenario and demonstrate knowledge of the nature and processes of branding and brand management	(Analyze)
MM 244.3	Develop a framework to identify and establish brand positioning and values to build customer based brand equity.	(Apply)
MM 244.4	Plan and implement brand marketing programs and brand associations to build brand equity.	(Apply)
MM 244.5	Evaluate/ Measure how a brand equity management system can capture customer mindset and enhance market performance through sources and outcomes of brand equity	(Evaluate)
MM 244.6	Design specific strategies that focus around extending, revitalizing and reinforcing existing brands to retain brand resonance (i.e. loyalty, attachment, community and engagement).	(Create)

Divya

Faculty Name: Dr. Divya Mathur