Program Outcomes
(Management Programmes)

PO1	Apply knowledge of management theories and practices to solve business problems.
PO2	Foster analytical and critical thinking abilities for data-based decision making.
PO3	Ability to develop value based leadership ability.
PO4	Ability to understand, analyze and communicate global, legal and ethical aspects of business.
PO5	Ability to lead themselves and others in the achievement of organizational goals, contributing effectively to a team environment.
PO6	Management graduates to acquire in-depth knowledge of business management and entrepreneurship embedded with ethics and a sense of social commitment and to strive towards personal victory and value creation to society.
PO7	Students studying management to be passionate about multidisciplinary approach for problem solving, critical analysis and decision making by giving due importance for lateral thanking so that they see things from a perspective which are not just simple but effective.

Programme Specific Outcome (PSO)

Programme	PSOs
MBA	PSO 1. Communicate professionally as a business leader both orally and in writing to bridge diverse perspectives, cultures, and disciplines. PSO 2. Analyze ethical implications of business practices using advanced levels of ethical reasoning. PSO 3. Demonstrate the knowledge of management science to solve complex corporate problems using limited resources. PSO 4. Identify business opportunities, design and implement innovations in work space. PSO 5. Apply reasoning informed by the contextual knowledge to assess societal,

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	health, safety, legal and cultural issues and the consequent responsibilities relevant to management practice. PSO 6. Utilize qualitative and quantitative methods to investigate and solve critical business problems. PSO 7. Incorporate diversity and multicultural perspectives when making business decisions. PSO 8. Integrate tools and concepts from multiple functional areas (i.e. finance, marketing, operations, etc.) to solve business problems. PSO 9. Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
BA (Hons) in Economics	PSO 1: The behavioural patterns of different economic agents, advance theoretical issues and their applications. PSO 2: Acquaint with the measurement of development with the help of theories along with the conceptual issues of poverty and inequalities with Indian perspectives. PSO 3: Delineate the fiscal policies designed for developed and developing economics. PSO 4: Learn the basic concept of monetary analysis and financial marketing in Indian financial markets. PSO 5: To make the students acquainted with the usage of basic tools of econometrics so that they can analyze the quantitative relationship among economic.
BBA (Specialization)	PSO 1: To provide in-depth knowledge to the students in a specific business area PSO 2: To keep pace with the changing environment PSO 3: To enhance the quality of placement for the students PSO 4: To help students in choosing their area of specialization when pursue higher studies in future. PSO 5: To provide an exposure to basic humanity courses, with which discipline of management has a strong association.
BBA (Tourism & Travel)	PSO 1: The learner will be able to understand basic and advanced knowledge about tourism industry and the working of tourism intermediaries. PSO 2: The learner will develop the capability of self-directed learning of tourist destinations based on geography, history and culture. PSO 3: The learner will be able to plan and design travel packages and also demonstrates the competence for booking procedures in tourism industry and learn to solve problems while conducting tours. PSO 4: The learner will create ability to manifest ideas and thoughts in writing and in oral to communicate confidently their viewpoints in professional world. PSO 5: The learner will develop the skills to become a successful entrepreneur and will demonstrate the ability to think critically for solving various problems pertaining to tourism industry.

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B.Com (Hons.)	PSO 1: Student will be able to demonstrate the progress learning of various tax issue and tax reforms related to Individual. Student will able to demonstrate knowledge in setting up a computerized set of Accounting Books. PSO 2: Student will demonstrate progressive affective domain development of values, the role of Accounting in society and business. PSO 3: Student will learn relevant Financial Accounting career skills, applying both Quantitative and Qualitative Knowledge to their future career in business. PSO 4: Student will be able to recognize features and roles of businessmen, entrepreneur, managers, consultant which will help learners to process and other soft skills and to react aptly when confronted with critical decision making
MBA (Dual Specialization)	PSO 1: To widen the scope of employment for students by having two specializations with equal weightage. PSO 2: To imbibe the students with requisite domain knowledge, skills & right attitude necessary to provide effective leadership in a global environment. PSO 3: To develop competent management professionals with strong ethical values, capable of assuming a pivotal role in various sectors of the Indian Economy and business and society at large. PSO 4: To inculcate proactive thinking to ensure effective performance in the dynamic socioeconomic and business ecosystem. PSO 5: To harness entrepreneurial approach and skillsets aligned with the national priorities.
MBA (Integrated)	PSO 1: To induce socially-conscious amongst female students of management programme. PSO 2: To lay foundation in social sciences amongst budding women managers and leaders. PSO 3: The programme will enable students to demonstrate (i) language skills, (ii) oral communication skills, (ii) knowledge of foundational subjects for management studies, (iii) social understanding and nation building. PSO 4: To provide an understanding of the core disciplines on which the study of management is based.

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(Established u/s 2(f) of the UGC Act, 1956)
Lakshmangarh (Sikar), Rajasthan 332 311, India
Ph. No. : (01573) 225001-12 · Fax : (01573) 225041
email : registrar@modyuniversity.ac.in · www.modyuniversity.ac.in

Programme Outcome (School of Engineering)

1. **ENGINEERING KNOWLEDGE**: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

2. **PROBLEM ANALYSIS**: Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

3. **DESIGN/DEVELOPMENT OF SOLUTIONS**: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

4. **CONDUCT INVESTIGATIONS OF COMPLEX PROBLEMS**: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

5. **MODERN TOOL USAGE**: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.

6. **THE ENGINEER AND SOCIETY**: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

7. **ENVIRONMENT AND SUSTAINABILITY**: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

8. **ETHICS**: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

9. **INDIVIDUAL AND TEAM WORK**: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

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10. **COMMUNICATION**: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, give and receive clear instructions.

11. **PROJECT MANAGEMENT AND FINANCE**: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

12. **LIFE-LONG LEARNING**: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

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PROGRAM SPECIFIC OUTCOMES

B.Tech. Computer Science and Engineering

PSO-1: Apply standard Software Engineering practices and strategies in real-time software project development using open-source programming environment or commercial environment to deliver quality product for the organization success

PSO-2: Design and develop computer programs/computer-based systems in the areas related to algorithms, networking, web design, cloud computing, IoT and data analytics of varying complexity

PSO-3: Acquaint with the contemporary trends in industrial/research settings and thereby innovate novel solutions to existing problems

M.Tech. Computer Science and Engineering

PSO-1: Apply Software Engineering Principles and Practices to provide software solutions.

PSO-2: Design and Develop Network, Mobile and Web-based Computational systems under realistic constraints.

PSO-3: Analyse and apply mathematical models to find solutions for various hardware and software issues in the design and maintenance of computer systems.

MCA

PSO-1: Apply the knowledge of computer application to find solutions for real-life application.

PSO-2: Ability to analyze, design, develop and maintain the software application with latest technologies

PSO-3: Utilize skills and knowledge for computing practice with commitment on social, ethical, cyber and legal values.

BCA

PSO-1: Gain knowledge and skill set in applying core concepts.

PSO-2: Analyse current and future trends to solve problems.

PSO-3: Employability readiness in various sectors.

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PhD-Computer Science and Engineering

PSO-1. To prepare each student to actively participate in development and growth of the field of Computer Science and Engineering in the industry or research

PSO-2. To impart skill in new technologies related to computing field

PSO-3. To develop research oriented skills in computing and other interdisciplinary areas related to computing and complexity.

PhD (Electronics and Communication Engineering)

The PhD (Electronics and Communication Engineering) programme is one of the oldest doctoral programmes of the department. Traditionally bright students with ME/MTech degree in a relevant discipline have been admitted into this programme.

PSO 1: The research training program aims at strengthening the fundamentals and imparting advanced training. PhD students get opportunities to pursue innovative research on interesting topics including VLSI Design, Microwave and Millimeter wave Engineering, Digital Signal Processing, Electromagnetism, Power Electronics, Digital Signal Processing, Speech Processing, Image Processing and related field.

PSO 2: A PhD thesis results in a number of high quality research publications in reputed journals and conferences. The research and training experience enables the graduates to successfully lead R&D teams in the industry.

M.Tech. (VLSI Design)

M. Tech. in VLSI Design, Graduates will be able to:

PSO 1: Achieve Verification and prototype development concentrating on applications.

PSO 2: Integrate multiple sub-systems to develop System On Chip, improve its performance.

PSO 3: Transfer the Technology from Specifications to IC/FPGA Technologies, in the areas of Digital and Analog VLSI Systems.

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B.Tech. (Electronics and Communication Engineering)

On completion of B. Tech. (ECE) degree, the Electronics and Communication graduates will be able to:

PSO 1: Technical knowledge and analysis: Apprehend and analyze specific engineering problems of communication, networking, electrical & electronics circuits, signal processing, embedded systems, VLSI design and semiconductor technology by applying the knowledge of basic sciences, engineering mathematics and engineering fundamentals.

PSO 2: Design and Implementation: Ability to design and implement the acquired technical knowledge with proficiency in logical programming for applications in electronics & communication engineering.

PSO 3: Innovation and Development: Ability to innovate and develop the Assistive Products and Electronic Systems to Cater the Specific Requirements of Real World Problems.

B.Tech. (Electrical Engineering)

• Able to apply the knowledge gained during the course of the program from Mathematics, Basic Computing, Basic Sciences and Social Sciences in general and all electrical courses in particular to identify, formulate and solve real life problems faced in industries and/or during research work.

• Able to provide socially acceptable technical solutions to complex electrical engineering problems with the application of modern and appropriate techniques for sustainable development.

• Able to apply the knowledge of ethical and management principles required to work in a team as well as to lead a team.

B.Tech. (Mechanical Engineering)

PSO 1 Apply their knowledge in the domain of Thermal Engineering, Design Engineering and Manufacturing Engineering. An ability to identify, analyze and solve mechanical engineering problems related to allied engineering streams.

PSO 2 An ability to find out, state the local industrial problems, and solve with the use of Mechanical Engineering tools in the sphere of research and development, production, quality assurance, and maintenance and to apply managerial skills to become Technocrats and Entrepreneur.

PSO 3 An ability of collaborative learning to find out cost-effective, optimal solution sustainable growth with the help of modern CAD/CAM tools, ANSYS, Solidworks and various optimization techniques like Taguchi, RSM, Regression analysis etc. while ensuring best manufacturing practices.

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Bachelor of Architecture (B. Arch.)

PROGRAM OUTCOMES		
PO Number	**PO Title**	**PO Statement**
		After completing the Program, Students will be able to
PO1	CRITICAL THINKING	analyze, evaluate, and synthesize ideas and information gathered through applied research grounded in information literacy
PO2	DESIGN AND REPRESENTATION	Implement complex two and three-dimensional graphic representation techniques using a wide variety of traditional and digital media to meet wide range of stakeholders need.
PO3	BUILDING DESIGN CRITERIA	to apply a design decision-making process through appropriate technical documentation in a manner that is client-centered, sustainable, aesthetic, cost effective, and socially responsible.
PO4	BUILDING SYSTEMS KNOWLEDGE	Incorporate technical skills and professional architectural knowledge during schematic design to demonstrate a comprehensive application of life safety, accessibility, and sustainability issues
PO5	INTEGRATED ARCHITECTURAL SOLUTIONS	to synthesizean integrated design solution by employing appropriate building materials, building systems, construction practices grounded in environmental stewardship,and research
PO6	ARCHITECTURAL PRACTICE	collaboratewith lead teams of stakeholders in the process of conceiving, developing and implementing solutions along with associated ethical, legal, financial and social responsibilities.
PO7	QUANTITATIVE REASONING	Apply mathematics, physics, logic as reasoning skills to investigate problems related to force resolution in structural systems, thermal heat gain and loss in buildings, material quantity estimates, budget management, and life-cycle cost analysis.
PO8	INFORMATION LITERACY	Demonstrate information literacy through applied research to reach well-reasoned conclusions and evaluate options against relevant design criteria, building standards, and program requirements.

PSO Number	PSO TITLE	PSO Statement
PSO1	Architectural development	Apply the knowledge of relevant building bye laws and fundamental architectural design components to design the

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		built environment.
PSO2	Career Skills	Demonstrate leadership and professional skills in handling clients, various consultants and on site requirements during the construction of projects.
PSO3	Architectural software & tools	Utilize and upgrade the technical as well as software advancements and innovative techniques for design development & implementation.
PSO4	Professional & Social Responsibility	To orient students for being committed to professional ethics, responsibilities, and economic, environmental, societal, and political norms.

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Program Specific Outcome of BVA

The primary objective of the program is to impart knowledge in the areas of visual arts, art history, culture and important milestones in the Art History of the world. Course brings awareness about two, three and four dimensional artworks/installations, knowledge about the process, aesthetics and the creative elements involved.

- Students will develop the ability to think open-mindedly with the ability to consider alternative systems of thought that challenge received notions and social cultural bias.
- Effectively express concepts in concrete form and consider the role of art making in the larger social context.
- Skillfully create artistic form using techniques and methods appropriate to the intended result.
- Understand that the meaning of a work of art is conditioned by the manner in which it is exhibited or otherwise presented and distributed. They will have the ability to consider methods of presentation and distribution in innovative ways that respond to, and potentially influence, existing conditions in the field art.
- Develop an awareness of current professional standards in their chosen media and in the larger field of contemporary art as well as the ability to effectively meet or redefine those standards. Recognizing that one aspect of being a professional artist is autonomy; Visual Arts Students will develop artistic autonomy to identify and focus on their practice, act upon their ideas and continue to learn over the length of their career.

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Program Specific Outcome of BFLAD

- The Lifestyle Accessory Design programme builds competency in learners to accept challenges of cutting-edge design industry and market.

- The programme is structured to inculcate various aspects of the design process and technology.

- The program enables learners to develop traditional as well as contemporary techniques/ skills & knowledge starting from concept to final production of fashion and lifestyle products.

- The program deals with material exploration, industry exposure, field visit, market viability, entrepreneurial skills development and final graduation projects.

- The programme offers an integrated approach through multi-disciplinary contextual, theoretical, conceptual, and forward-looking perspectives to established firms and frequently launches their own collections.

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Program Outcome, B. Design

After the completion of **B. Design program** students will be able to:

1 Applying a broad knowledge of design analyses, consolidation and synthesis with in-depth knowledge in at least one area of study between range of specialization.

2 Application of project based learning, incorporating critical, analytical and methodological skills able to identify and resolve problems in applied or innovative ways.

3 Demonstrate and understand the social, professional, historical ,Traditional and theoretical contexts of the appropriate discipline

4 Able to evaluate the role of design in addressing current issues facing local and global communities in specific areas of design.

Signature of Faculty

Prof. (Dr.) Smriti Agarwal
School of Design

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Program Outcome, M. Design

After the completion of **M. Design program** students will be able to:

1 Individual and teamwork: Function effectively as an individual and as member or leader in diverse teams with in-depth knowledge in at least one area of specialization.

2 Application of project based learning, incorporating critical, analytical and methodological skills able to communicate effectively by report, project and presentation.

3 Demonstrate and understand the design problems and find solutions in societal and environmental contexts and work need for sustainable development

4 Apply ethical principles and commit to professional ethics and addressing the current issues as a professional designer.

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Signature of Faculty

Prof. (Dr.) Smriti Agarwal
School of Design

Program Specific Outcome

After the completion of **B. Design (FD) program** students will be able to:

1. Develop a complete range of garments/products for a particular age group, occasion and season or according to the requirement of the customer/ target market/ global garment industry.
2. To identify, test & analyze the various quality standards used in garment industry.
3. Develop innovative ideas around research in fashion design/Industry.
4. Demonstrate competencies as entrepreneurs of textile and fashion industry.

Signature of Faculty

Prof. (Dr.) Smriti Agarwal
School of Design

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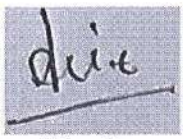
Program Specific Outcome

After the completion of **M. Design (FD) program** students will be able to:

1 Utilize their artistic & technological abilities to support the innovation in research skills result from a rigorous process of future design and editing ideas that address specific design challenges.

2 Demonstrate professionalism relates to concern fashion design to a broader socio-economic, historical, and environmental context and quality work and effectively collaborating with teams.

3 Develop a systematic expertise and critical approach to problem-solving at all levels of the design process, marketing and branding.



Signature of Faculty

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School of Design

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Program Specific Outcome

After the completion of **B. Design (TD) program** students will be able to:

1. Able to understand characteristics, properties of the row textile with application of advance technology according to the requirement of the target market/ global textile industry.
2. To identify, critically & evaluate visual information to develop the various quality standards used in garment industry.
3. Analyze the issues of textile industries; develop innovative affecting ideas for the removing issues from textile industry/Indian Artisan.
4. Demonstrate competencies as entrepreneurs of textile industry

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Signature of Faculty

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School of Design

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BA/BBA/BCOM LL.B

Five-Year Integrated Programme

PROGRAM OUTCOME (PO)

- **Augmented Legal Knowledge**: To acquire & apply legal knowledge to the complex Socio-legal problems. Professional Practice: to make students eligible to practice in Courts, Industries, Companies as legal practitioner.
- **Professional Ethics and Professional Skills:** To develop professional skills required for legal practice such as Argument, Pleading, drafting, conveyancing etc. and apply principles of professional ethics of legal profession.
- **Legal research & legal reasoning:** to develop legal research skills & legal reasoning and apply it during programme & in Legal practice.
- **Self-reflection & lifelong learning** : To develop an attitude of self-reflection while learning & Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of changing legal contexts.
- **Self-employability**: To develop professional skills required for legal practice such as Argument, Pleading, drafting, and to provide a platform of self-employability by developing professional skills and exposure to legal industry.
- **Lifelong Learning:** To make awareness about Constitutional legislative & societal transformation in society & to develop clinical abilities.
- **Advocacy skills and Leadership skills**: Every graduate will become skilled in legal research, written and oral communication, teamwork, advocacy, and problem-solving, develop leadership qualities amongst students.

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PROGRAM SPECIFIC OUTCOME – BA LL.B

Students will be able to demonstrate understanding of substantive and procedural law sufficient to enter the legal profession and professions in which legal knowledge is an advantage.

- Students will be able to associate the learning from the courses related to Law and Management.
- Students will be able to Gather and interpret relevant facts and conduct legal research.
- Students will have the capability to understand the laws at national and global level and to solve the client's problem.
- Students will possess the skills to communicate in both oral and written forms and ability to formulate legal problems and using appropriate concepts and methods to solve them.
- Students will be able to use skills in specific areas (e.g. criminal, industrial-organizational, clinical, counseling, and social, community).

PROGRAMME SPECIFIC OUTCOME- BBA LL.B

- Students may acquire advance knowledge in the specific field of law chosen for the specialization.
- Students will be able to Interpret and analyze the legal and social problems and work towards finding solutions to the problems by application of laws and regulations.
- Students are equipped with the knowledge of teaching methods through the subject on Teaching Pedagogy thereby enabling them to enter the teaching profession.
- Through compulsory research component in the form of research paper, the students learn to conduct research study.
- Inculcation of values of rights and duties as citizens and to transfer these values into real-life through legal and judicial processes for promoting community welfare.
- Recognizing the need for and have the preparation and ability to engage in independent and life-long learning in the broader context of legal change

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PROGRAMME SPECIFIC OUTCOME- B.COM. LL.B

- Acquire advance knowledge in the field of law with the expertise in commercial law.
- Interpret And Analyze the legal problems and work towards finding solutions to the problems by application of laws and regulations.
- Students are equipped with the knowledge of teaching methods through the subject on Teaching Pedagogy thereby enabling them to enter the teaching profession.
- Through compulsory research component in the form of research case study specific to the Industries/Organization.
- Preparing students for qualifying the exam of Company Secretary/ Chartered Accountant though various methodologies adopted.
- Students are exposed to practical application of Taxation laws and regulation and how they are applied through practical assignment of filing ITR.

LL.B.
Three Year Programme

PROGRAMME OUTCOME

- Grooming etiquettes of legal profession- through practical component like professional ethics students are encouraged to follow certain values of the profession like the Advocates Act, 1961.
- Application and learning of substantive and procedural laws, as also the drafting of pleadings such as institution of suit etc and understanding of the legal setup.
- Interpretation and analyzing legal and social problems and for ensuring solutions to these problems by application of the necessary laws and rules.
- Inculcation of values of rights and duties as citizens and to transfer these values into real-life through legal and judicial processes for promoting community welfare.
- Application of ethical principles and inculcate professional ethics, to undertake responsibilities and norms of the established legal practices.
- Recognizing the need for and have the preparation and ability to engage in independent and life-long learning in the broader context of legal change

PROGRAMME SPECIFIC OUTCOME

- Acquisition of advance knowledge in the specific chosen area of specialization.
- Interpretation and analyzing the legal and social problems and working towards the redressal of such problems by application of laws and regulations in force.
- The application of ethical principles and inculcating professional ethics, in order to undertake responsibilities and established norms of the legal practice.
- Application of ethical principles and inculcate professional ethics, to undertake responsibilities and norms of the established legal practices.
- The inclusion of practical component in the field of teaching learning, students learn to collect empirical data, analyse it by application of law which in turn helps strengthen their field of research.

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LL.M.

PROGRAMME OUTCOME- LL.M.

- Strengthening Research- ability to undertake minor/major research components and help the students to pursue higher studies Ph.D
- Problem solving ability & critical analysis of case laws- the gaining of legal knowledge enables the learner to solve the problems more effectively by application of the knowledge so acquired and helps them to critically analyse the case laws.
- Building rapport and establishing oneself – enables the learner to work in sync with the other legal practioners and in turn helps in building rapport with the senior lawyers and other legal practioners in the field and establishing a strong hold in the profession. Greater responsibility towards the society- the learners of the programs offered by the institution also contribute towards the social cause as the knowledge of the legal process helps them build a society with greater civic sense and responsibility.
- Continuity in the learning process- the learners can also engage in the field of research and can further add to the process of learning
- Inculcating sense of professionalism- through the study of law, the learners develop professionalism and it helps them to apply the legal knowledge to better use.
- Wide choice of careers – one of the greatest benefits available by studying this program is it offers a wide range of career options to the young professionals Judiciary, teaching, besides legal practice.
- Opportunity to answer competitive examinations- This program also enables them to appear for competitive exams for future prospects and prepares them accordingly.
- Enabling the students to explore and learn the detailed laws and the procedure pertaining to the specific field of study and to analyse the judicial response to it.
- Equipping students with the knowledge of teaching methods through the subject on teaching Legal Education and Pedagogy thereby enabling them to enter the teaching profession.
- The application of ethical principles and to imbibe in them a sense of professional ethics, responsibilities and norms of the established legal practices.
- Understanding, enabling and recognizing the importance of engagement in independent and life-long learning in the broader context of social-legal changes.

PROGRAMME SPECIFIC OUTCOME- LL.M.

- Enabling the students to explore and learn the detailed laws and the procedure pertaining to the specific field of study and to analyse the judicial response to it.
- Interpretation and analysis of the legal and social problems and find solutions to the socio – legal problems by application of laws and regulations.
- Equipping students with the knowledge of teaching methods through the subject on teaching Legal Education and Pedagogy thereby enabling them to enter the teaching profession.
- The application of ethical principles and to imbibe in them a sense of professional ethics, responsibilities and norms of the established legal practices.

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- Understanding, enabling and recognizing the importance of engagement in independent and life-long learning in the broader context of social-legal changes.
- Enabling a learner to effectively understand the various laws in the context of which they are made including specific exhaustive understanding of variety of substantive as well as procedural laws including various legislations along with the rules in the specialized area of their interest.
- Encouraging the analysis of legal problems from an objective point of view and work towards finding solutions to the problems by application of laws and regulations.
- Enabling the art of undertaking doctrinal and empirical research covering a wide area of socio-legal knowledge and implementation of various tools and techniques of research.
- Developing skills necessary for facilitating legal research and to effectively horn their advocacy skills in the specialized areas.

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Programme Outcomes

PO1	**Critical Thinking:** Take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational, and personal) from different perspectives.
PO2	**Effective Communication:** Speak, read, write and listen clearly in person and through electronic media in English and in one Indian language, and make meaning of the world by connecting people, ideas, books, media and technology.
PO3	**Social Interaction:** Elicit views of others, mediate disagreements and help reach conclusions in group settings.
PO4	**Effective Citizenship:** Demonstrate empathetic social concern and equity centred national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering.
PO5	**Ethics**: Recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them.
PO6	Environment and Sustainability: Understand the issues of environmental contexts and sustainable development.
PO7	**Self-directed and Life-long Learning**: Acquire the ability to engage in independent and life-long learning in the broadest context socio-technological changes

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PROGRAMME SPECIFIC OUTCOMES (PSO)

Arts

Programme	PSOs
B.A.(Hons.) English	PSO 1: Provides a chance to develop one's creative writing skills. PSO 2: Creates interdisciplinary atmosphere with Philosophy, Sociology, Psychology, Music, Film Studies, Journalism and Mass Communication, History, Geography, Modern Languages and so on. PSO 3: Discovers how to hone your skills and turn your passion for reading and writing into a career of your choice. PSO 4: Makes you learn to think critically and write effectively in a career you choose. PSO 5: Acts as fulcrum to be a Poet/ a Storywriter/ a Dramatist/ a Novelist / a Professor/ Corporate Communication Executive or many more. PSO 6: Discloses doors to Indian Civil services as one of the few choicest subjects. PSO 7: Forms a strong sense of humour, character and strengthens mind, and sharpens the intellect for all walks in life.
B.A.(Hons.)Political Science	PSO 1. Knowledge about political system of the nation. PSO 2. Study of national and international political affairs. PSO 3. Study from competitive examination point of view. PSO 4. Understanding the government mechanism, its functions, duties and responsibilities. PSO 5. Creating appropriate and efficient political leaders. PSO 6. Getting knowledge of political law. PSO 7. Getting knowledge of Constitution of India.
B.A.(Hons.)Psychology	PSO 1: To understand the concepts of basic psychological principles and laws. PSO 2: To understand the need to provide psychological assistance to people by conducting awareness programmes and camps. PSO 3: To apply the skills gained during the course of study at clinical / industrial areas. PSO 4: To analyze the causes behind the major psychological issues

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	seen with people in the society today PSO 5: To exemplify integrity and accountability in professional and peer relationships.
B.A.	**POLITICAL SCIENCE** PSO 1. Knowledge about political system of the nation. PSO 2. Study of national and international political affairs. PSO 3. Study from competitive examination point of view. PSO 4. Understanding the government mechanism, its functions, duties and responsibilities. PSO 5. Creating appropriate and efficient political leaders. PSO 6. Getting knowledge of political law. PSO 7. Getting knowledge of Constitution of India. B.A.(Journalism and Mass Communication) **SOCIOLOGY** PSO 1. Acquaintance with social transactions, social relations, social formations, social control, social values and culture. PSO 2. Knowing the significance of social institution, caste system, religion, nationalism, integrity, equality and justice. PSO 3. Getting the knowledge of the works of social reformers all over the nation. PSO 4. Ability to follow new stream of thoughts and theories of social thinkers. PSO 5. Getting the deep knowledge about various social groups like tribal community, women bulk etc. PSO 6. Ability to deal with research in sociology. **ENGLISH** PSO 1: Provides a chance to develop one's creative writing skills. PSO 2: Creates interdisciplinary atmosphere with Philosophy, Sociology, Psychology, Music, Film Studies, Journalism and Mass Communication, History, Geography, Modern Languages and so on. PSO 3: Discovers how to hone your skills and turn your passion for reading and writing into a career of your choice. PSO 4: Makes you learn to think critically and write effectively in a career you choose. PSO 5: Acts as fulcrum to be a Poet/ a Storywriter/ a Dramatist/ a Novelist / a Professor/ Corporate Communication Executive or many

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	more. PSO 6: Discloses doors to Indian Civil services as one of the few choicest subjects. PSO 7: Forms a strong sense of humour, character and strengthens mind, and sharpens the intellect for all walks in life. **GEOGRAPHY** PSO:1- Study the types of land and processes. PSO:2- Understand the structure, composition of different spheres of the earth and its Atmosphere. PSO:3- Understand importance of oceans, rivers and water and find the ways of their conservation. PSO:4- Understand the Function and types of Biogeography. PSO:5- Understand the science of Remote Sensing Make use of GIS & GPS software **PSYCHOLOGY** PSO 1: To understand the concepts of basic psychological principles and laws. PSO 2: To understand the need to provide psychological assistance to people by conducting awareness programmes and camps. PSO 3: To apply the skills gained during the course of study at clinical / industrial areas. PSO 4: To analyze the causes behind the major psychological issues seen with people in the society today PSO 5: To exemplify integrity and accountability in professional and peer relationships. **HISTORY** PSO 1. Understand background of our religion, customs institutions, administration and so on. PSO 2. Understand the present existing social, political, religious and economic conditions of the people. PSO 3. Analyze relationship between the past and the present is lively presented in the history. PSO 4. Develop practical skills helpful in the study and understanding of historical events. PSO 5. Develop interests in the study of history and activities relating to history.

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	PSO 6. The study of history helps to impart moral education. PSO 7. History installs the feeling of patriotism in the hearts of the pupils.
B.A. (JOURNALISM AND MASS COMMUNICATION)	PSO 1. Student developed a practical understanding of the underlying Principals of Mass Communication and Journalism industry. PSO 2. Students will learn to write edit and design newspaper ,shoot and anchor news bulletins and television programs ,make a radio ,print advertisement, produce documentaries create You tube videos etc. PSO 3. Students will learn to work on the various software's used in the Journalism such as Page Maker, Photoshop etc.
M.A. English	PSO 1: Have an understanding of the World Literature and Women Studies. PSO 2: Develop the basic ability to evaluate the relationship between rhetoric, form and meaning. PSO 3: Develop familiarity with a selection of important works within English-language and literature. PSO 4: Analyse and interpret texts through close reading, by drawing on relevant linguistic, cultural, and historical information. PSO 5: Have the knowledge and understanding of the principal genres of literature along with the different methods of their analysis. PSO 6: Have a basic understanding of the evolution of English morphology, phonology, syntax and lexicon across time and /or place. PSO 7: Have an understanding of the different scholarly approaches and literary theories such as New Criticism, New Historicism, Structuralism and Post-structuralism, Reader Response, Psychoanalytical Criticism etc. to the study of literature.
M.A. Psychology	PSO1: Understand the basic principles governing human behaviour. PSO2: Recognize and classify the biological and neural mechanism of mental processes. PSO3: Identify the social and cultural influences on human behaviour, specifically inter- and intra-personal relationships. PSO4: Understand, analyse and evaluate individual differences based on various perspectives and theories of personality and intelligence.

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	As well, apply and test individual differences in real life outcomes. PSO5: Investigate different aspects of human behavior with an understanding of various research methods and demonstrate their application in psychosocial and professional settings. PSO6: Impart knowledge about the practical applications of psychological concepts and theories to real life problems. PSO7: Identify, classify and diagnose different psychological disorders and examine and apply the different treatment programs for various psychological disorders. PSO8: Demonstrate the uses of psychological tools and tests to examine the variations in human behaviour in clinical, organizational, and educational settings. PSO9: Investigate positive psychological strengths and traits of human and work towards enhancing the overall functioning of normal people.

Programme Specific Outcome

Science

Programme	PSOs
B.Sc.	PSO 1: A fundamental understanding of Physics, Chemistry, Mathematics, its different learning areas and applications, and its linkages with related disciplinary areas/subjects. PSO 2: Acquire the skills in handling scientific instruments and drawing logical inferences from the scientific experiments. PSO 3: Acquire knowledge that creates different types of professionals related to the Physics Chemistry, Mathematics, including research and development, teaching and government and public service. PSO 4: To create platforms to become an entrepreneur for their successful career and relish for higher studies
B.Sc. (Hons.) Biotechnology	PSO 1: To integrate the knowledge of biology for developing technologies for food, pharma and healthcare industries. PSO 2: To impart knowledge for understanding of legal issues affecting biotechnology industries. PSO 3: To enhance expertise in tools and techniques in applied fields

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	of biotechnology.
B.Sc. (Hons.)Food and Nutrition	PSO 1: Understand the basic concepts behind food science and gain an in-depth knowledge on application of food science. PSO 2: Comprehend the principles of sensory analysis for food products. PSO 3: Understand the interaction between microorganisms and food PSO 4: Acquire knowledge on chemistry pertaining to foods and solve qualitative and quantitative problems pertaining to chemical interactions in food products. PSO 5: Gain knowledge about various packaging materials, its importance and food labeling PSO 6: Understand the importance of nutrition in various stages of life and assess the nutritional status of individuals and community PSO 7: Comprehend the biochemical implications and correlation of foods and diseases and prescribe individualized diets. PSO 8: Gain in-depth knowledge on the relationship between nutrition, food biotechnology, food processing and food technology. PSO 9: Acquire in-depth knowledge of food service industries.
B.Sc.(Hons.)Psychology	PSO 1: To understand the concepts of basic psychological principles and laws. PSO 2: To understand the need to provide psychological assistance to people by conducting awareness programmes and camps. PSO 3: To apply the skills gained during the course of study at clinical / industrial areas. PSO 4: To analyze the causes behind the major psychological issues seen with people in the society today PSO 5: To exemplify integrity and accountability in professional and peer relationships.
B.Sc. (Hons.) Mathematics	PSO 1: Understands the basic fundamental concepts of advanced Mathematics with the basic applications in Mathematics and related interdisciplinary fields. PSO 2: Develops the problem solving skills with the idea of complexity of the problem. PSO 3: Think and creates mathematical research at undergraduate levels.

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B.Sc. (Hons.)Forensic Science	PSO 1: Crime scene principles, investigative processes and trace evidence analysis. PSO 2: Criminological theories to explain crime, criminal and criminal behavior. PSO 3: Physical and chemical basis for understanding the nature and behavior of materials and the modus operandi. PSO 4: Biological and anthropological basis for understanding human identification and the effects of trauma (blunt instruments, sharp instruments and weapons) and toxicity (drugs, poisons) on the human condition. PSO 5: Wildlife crime investigation and analysis. PSO 6: Fingerprint development, lifting and comparison techniques. PSO 7: Forensic Ballistics and tool marks identification. PSO 8: Forensic photography and the use of digital techniques in photography. PSO 9: Questioned documents examination and comparative analysis. PSO 10: Digital Forensics and Multimedia Forensics investigation processes. PSO12 Legal context of forensic science and its use in the provision and/or interpretation of evidence. PSO13 Laboratory techniques and instrumentation in investigative science. PSO 14: The roles of forensic personnel and the role of an expert witness in the presentation of unbiased testimony for court.
B.Sc.(Hons.)Physics	PSO 1: Develop a systematic, extensive and coherent knowledge and understanding of physics as a whole and its applications, and links to related disciplinary areas/subjects. PSO 2: Acquire knowledge that creates different types of professionals related to the physics, including research and development, teaching and government and public service. PSO 3: Develop skills in areas related to one's specialization and critical understanding of the latest developments in the area of Physics. PSO 4: Acquire skills in handling scientific instruments and drawing logical inferences from the scientific experiments.
B.Sc.(Hons.)Chemistry	PSO1 Understanding the market for chemical industry.

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	PSO2 Ethically improves the mother environment clean by disposing the hazardous chemical in a systematic way. PSO3 Understanding the need of modern tools in chemical sciences. PSO4 Improving their knowledge in higher education. PSO5 Record keeping and managing the records. PSO6 Critical thinking of a problem. PSO7Safety in laboratory. PSO8 Plan and conduct scientific experiments and record the results of such experiments.
M.Sc. Biotechnology	PSO 1: Become well versed with the knowledge in interdisciplinary subjects to understand the need and impact of biotechnological solutions on environment and societal context keeping in view need for sustainable solution. PSO 2: The student gets hands-on experience in molecular biology and related techniques to venture into research world for a good career within country and abroad. PSO 3: Practical hands on exposure and the institutional academic program, student develops a sustainable approach in both academia and corporate sectors.
M.Sc. Chemistry	PSO 1: Gains complete knowledge about all fundamental and advanced aspects of all essentials of chemistry PSO 2: Understands the background of organic reaction mechanisms, complex chemical structures, instrumental method of chemical analysis and molecular rearrangements. PSO 3: Learns the importance of various elements present in the periodic table, coordination chemistry, properties of compounds, structural determination of compounds by spectroscopic characterization. PSO 4: Gathers attention about the significance symmetry of molecules. PSO 5: Carry out experiments in the area of organic synthesis, estimation, preparation, conductometric and potentiometric analysis PSO 6: Learns about the potential uses of medicinal, pharmaceutical and green chemistry.
M.Sc. Food & Nutrition	PSO 1: Gain in-depth knowledge on various quality control measures of food products.

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	PSO 2: Understand the implication of diet under diseased conditions, prescribe individualized diets with a complete in-depth knowledge on hospital diets PSO 3: Understand the role of nutrition at community level and educate and try to alleviate the nutrition problems prevalent among the society. PSO 4: Comprehend the interaction between microorganisms and food, its role, importance and hazards PSO 5: Acquire knowledge of food service industries.
M.Sc. Mathematics	PSO1 Understands the basic fundamental concepts of advanced Mathematics with the basic and advance applications in Mathematics and related interdisciplinary fields. PSO2 Develops the problem solving skills with the idea of time complexity of the problem. PSO3 Think and creates mathematical research at postgraduate levels.
M.Sc. Microbiology	PSO1: Can implement their knowledge and skills in a wide range of careers in industry related to microbial world PSO2: Student will demonstrate high level proficiency in emerging research areas. PSO3: Devise and fabricate new inventions and share their work through publications.
M.Sc. Physics	PSO 1: Apply advanced theoretical and/or experimental methods, including the use of numerical methods and simulations to model, analyses, and solve advanced problems in physics. PSO 2: Apply theoretical knowledge of principles and concepts of Physics and mathematical techniques to practical problems. PSO 3: Demonstrate the ability to plan, undertake, and report on a program of original work; including the planning and execution of experiments, the analysis and interpretation of experimental results. PSO 4: Acquire advanced knowledge in some areas in physics PSO 5: Gain research experience within a specific field of physics and able to communicate both in written and oral, for specialized and non-specialized audiences
M.Sc. Forensic Science	PSO1: Understand the concepts and applications in the field of

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	Forensic Sciences. PSO2: Apply the learning from the courses and develop new methodologies for real time case works. PSO 3: Demonstrate competency in the principles of crime scene investigation, including the recognition, collection, identification, preservation, and documentation of evidences. PSO 4: Understand the technological developments in the usage of modern crimes and development tools to analyze and design new technology for solve the mysteries. PSO 5: Communicate in both oral and written forms, demonstrating the practice of professional ethics and the concerns for social welfare.
Ph.D.(Science and Arts)	PSO 1: Critically apply theories, practical methodologies and knowledge to address fundamental questions in Humanities, Social Sciences and Sciences. PSO 2: Interact productively with people from diverse backgrounds as both leaders/mentors and team members with integrity and professionalism. PSO 3: To develop self-direction and originality in tackling and solving real time socio-cultural issues. PSO 4: To provide a thorough knowledge of the literature and a comprehensive understanding of scientific methods and techniques applicable to their own research. PSO 5: To promote interdisciplinary and multidisciplinary research. PSO 6: Ability to develop research projects that are rooted in local contexts and have global relevance.

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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

Vikrant Sharma

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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

Siddhanta Kumar Singh

5/1/2020

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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

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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

10/4/2020

27/01/2020

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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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School of Management Studies(SMS)
Lakshmangarh (Sikar), Rajasthan 332 311, India
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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

Dr. Sunil Kumar Jangir 10/8/2017

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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 19/08/2019

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Lakshmangarh (Sikar), Rajasthan 332 311, India
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email: dean.set@modyuniversity.ac.in • www.modyuniversity.ac.in

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

27/01/2021

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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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School of Engineering and Technology (SET)
Lakshmangarh (Sikar), Rajasthan 332 311, India
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email: dean.set@modyuniversity.ac.in • www.modyuniversity.ac.in

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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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Lakshmangarh (Sikar), Rajasthan 332 311, India
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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 12/1/2019

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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

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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

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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

11/8/2019

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

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Faculty Name: Dr. Ajay Kumar Singh

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School of Engineering and Technology (SET)
Lakshmangarh (Sikar), Rajasthan 332 311, India
Ph. No.: (1573) 225001-12 • Fax: (01573) 225042
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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

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Faculty Name: Dr. Ajay Kumar Singh

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Lakshmangarh (Sikar), Rajasthan 332 311, India
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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

27/10/2021
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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 10/1/20 L9

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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

27/01/2020

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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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email: dean.set@modyuniversity.ac.in • www.modyuniversity.ac.in

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

10/8/19

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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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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**

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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

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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 Dr. Jitendra Binwal

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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

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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

27/01/2020

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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

27/01/2021

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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

27/9/2019

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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

08/11/19

27/11/2019

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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 9/1/25

27/01/2025
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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 callback, Creating your first express application	Apply

Faculty Name: Dr S.S.Verma 12/8/19

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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

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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

27/8/2019

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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

27/01/2021

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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

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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

27/01/2022

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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

27/01/2020

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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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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

27/01/2022

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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

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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

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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**

Dr. Vikas Raina 27/12/2019

27/01/2022
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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

27/12/2021

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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

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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

27/01/2020

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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: 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 9/1/19

27/01/2022

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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: 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

10/2/22

Faculty Name: Rajesh Yadav

27/2/2022

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email: dean.set@modyuniversity.ac.in • www.modyuniversity.ac.in

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

10/9/19

Faculty Name: Rajesh Yadav

27/01/2020

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email: dean.set@modyuniversity.ac.in • www.modyuniversity.ac.in

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 31/01/19

27/01/2020

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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

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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

27/01/2021

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Faculty Name

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

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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

27/01/2020

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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

12/8/19
Faculty Name

27/01/2022

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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

14/8/19
Ms. Sonal Shukla

27/01/2022
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Lakshmangarh (Distt Sikar) 332311

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School of Engineering and Technology (SET)
Lakshmangarh (Sikar), Rajasthan 332 311, India
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email: dean.set@modyuniversity.ac.in • www.modyuniversity.ac.in

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

14/8/2019
Prateek Bhanti

27/01/2020
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Lakshmangarh (Sikar), Rajasthan 332 311, India
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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

14-12-19
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27/12/19
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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

27/01/2020

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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

25/01/2018
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Lakshmangarh (Sikar), Rajasthan 332 311, India
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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

15/10/2014

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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

10/8/19

Faculty Name: Rajesh Yadav

27/10/2020

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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

27/01/2020

10/8/19

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

27/01/2022

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Course Outcome

Course Name: Comprehensive
Course Code: CA 17.791

Credit Hours: 2
Semester, Year: Vth, 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

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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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Ph. No.: (1573) 225001-12 • Fax: (01573) 225042
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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

10/8/19

Faculty Name: Rajesh Yadav

27/01/2022

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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

27/08/2019

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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

27/01/2022

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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

11/6/19

27/01/2020

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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

11/8/19

27/01/2020

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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

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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

13/01/20

Faculty Name: Mr. Rajesh Yadav

27/1/20

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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 12/1/2022

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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

27/01/20

Faculty Name: Mr. Rajesh Yadav

27/01/2020

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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 27/01/2020

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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	Understand problem solving techniques and algorithms	Understand
	CS 14.318.3	Apply various problem solving algorithms	Apply
Unit 3	CS 14.318.4	Acquire the knowledge of real world Knowledge representation	Understand
Unit 4	CS 14.318.5	Understand various game playing techniques / algorithms	Understand
	CS 14.318.6	Use algorithm/methods for various games	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

10/1/2020

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, 3rd year
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 10/01/2022.

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Course Outcome

Course Name: *Compiler Design Laboratory*
Course Code: CS 14.354
Credit Hours: 1
Semester, Year: VI, 3rdyear
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 10/01/2022

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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**

27/01/2022

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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 12/1/2022

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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

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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

Dr. Niranjan Lal 12/1/2022

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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	Understand the Network and need	Understand
	ET 362.2	Knowledge on Models etc	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

27/04/2022

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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 27/1/20

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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

27/01/2022

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School of Liberal Arts and Science (SLAS)
[Applicable in School of Engineering and Technology (SET)]

Department of Mathematics

Course Outcomes

Course Name: Statistics and Probability Theory (SPT)
Course Code: MA 14202
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

(Dr. Jitendra Binwal)
Signature of the Faculty

Dr. Jitendra Binwal, Professor and Head, Department of Mathematics, SLAS, Mody University, Lakshmangarh, Sikar, Rajasthan

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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 Biswal, Ms. Kiran Singh Bala and Dr. Vishwas Deep Joshi	Statistics and Probability Theory (MA 14202)	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.	02
1.3	Bayes Theorem and its applications.	02
Unit 2	Random Variables and Distributions (T1, T3, &R1)	[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	Joint, Marginal, and joint probability for random variable in two dimensions.	01
2.4	Mathematical expectation (Mean and variance) for discrete and continuous variables.	02
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, T3,&R3)	[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 a only.	02
6.2	Correlation coefficient and rank coefficient.	02
6.3	Linear Regression.	02
Unit 7	Queuing Theory and Queuing models (T2,T3,T5,&R2)	[08]
7.1	Birth and death processes, Poisson Arrivals, service rate, exponential over arrival and service rate.	03
7.2	Introduction to the Queuing models, Kendall's notation.	01
7.3	(M/M/1):(FCFS/∞/∞) Queuing model, Problems of Mean one only.	02
7.4	Introduce other models (M/M/S):(FCFS/∞/∞), (M/M/1):(FCFS/N/∞) (without proofs/any)	02

Dr. Jitendra Biswal (Professor and Head, Department of Mathematics, Statistics and Physics)
Faculty Coordinator (Prof. M. K. Gupta)

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Contents of Mid-Term & WETE Examinations:

Mid Term I (Weight-age: 30%) [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: 60%)

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.Babnab and Manoranjan Jas, Elements of Probability and Statistics, 2003, TMH.
2. Pagalarasan, Probability and Queuing Theory, TMH.
3. Gupta & Kapoor, Fundamental of Mathematical Statistics, SCS Publisher, June 2003.
4. Gupta & Kapoor, Fundamental of Applied statistics, SCS Publisher, Jan 2001.
5. B.V. 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. Johnson, Probability and Statistics for Engineers, Pearson.

Dr. Jitendra Kumar, Professor and Head, Department of Mathematics, SMS, MUST, Lakshmangarh, Sikar (Raj.), M: 09414060021, Email id: jitendrakumar@mustedu

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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 11/1/20

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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 12/1/2022

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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 12/1/2022

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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

13/1/20

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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

27/01/2021

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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

18/09/20

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

Faculty Name (Dr. Puneet kumar) 11/1/20

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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

27/01/2022

Faculty Name : Dr. Anand Sharma 27/1/2022

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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

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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

27/8/2022
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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

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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 24/5/20

27/01/2021

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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**

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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

27/01/2022

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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

27/01/2022

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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

27/01/2022

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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

27/01/2020

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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
	j.	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

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Faculty Name

P.K.Bishnoi

27/01/2021

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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

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				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

22/6/2020

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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

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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

27/01/2021

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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

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	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**

Dr. Vikas Raina 22/1/2022

27/01/2022

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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

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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 27/1/20

27/01/2020
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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

27/10/2022
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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

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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

27/01/2022

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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
CS14.4023	22	44
Course Code.4		

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

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Lakshmangarh (Distt Sikar)

Course Code.5		
Course Code.6		
Total	50	100

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

Faculty Name: Dr. Somil Jain

27/01/2022

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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

27/01/2021

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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

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Lakshmangarh (Distt Sikar) 332311

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

Total	**50**	**100**

Faculty Name : Manmohan Sharma

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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

27/01/2022

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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

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

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

Faculty Name: Aditi Kajala 9/3/2020

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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

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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

27/01/2022

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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

27/01/2020

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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
I.	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%

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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 27/1/19

27/01/2019

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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

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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 27/1/17

27/01/2022

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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

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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**

24/12/19

Sunil Kumar Jangir

27/01/2022

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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

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End School of Engineering and Technology
~~Mid~~ 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

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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

27/01/2020

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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

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	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

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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

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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 27/12/19

27/01/2020

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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

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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**

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	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%**

27/12/19

Faculty Name Dr. Suneet Gupta

27/01/2022

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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

31/10/19

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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

27/01/2020
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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**

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	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

27/1/2021

27/01/2021

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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

27/01/2020

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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

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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

27/01/2022

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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

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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

27/01/2022

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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

31/01/2019

27/01/2022

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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
I.	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%

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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

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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

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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 27/1/17

27/01/2022

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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

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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**

25/12/19

Sunil Kumar Jangir

27/01/2022

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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

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End School of Engineering and Technology
~~Mid~~ 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

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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

27/01/2022

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	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

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	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**

27/1/19

Faculty Name
Ms. Sonal Shukla

27/01/2022

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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

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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 27/12/19

27/01/2022

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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

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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**

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	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%**

27/12/19

Faculty Name Dr. Suneet Gupta

27/01/2022

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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

31/10/19

27/01/2020

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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

27/01/2020
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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**

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	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

27/01/2021

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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

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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: 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

27/1/20
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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

11/10/2020

23/10/20

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Lakshmangarh (Distt Sikar) 332311

School of Engineering and Technology (SET)
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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

27/01/20

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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

27/1/20
Sonal Shukla

27/01/2021
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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

14/1/2022
Dr. Prateek Bhanti

27/01/2022
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Lakshmangarh (Sikar), Rajasthan 332 311, India
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Course Outcome

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

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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

11/1/2020

27/01/2020
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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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27/07/2020
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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: 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 13/1/2022

27/1/22
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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

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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

27/01/2022
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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 27/1/2020

27/01/2022

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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

27/01/2021

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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

22/01/2022

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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

27/04/2022
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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

27/01/2020

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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

Faculty Name: Dr. Vivek Pandey

Prepared By: Dr. Vivek Pandey ME, SET

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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

27/01/2022
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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

27/01/2022

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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

05/04/19
Faculty Name: Dr. Vivek Pandey

27/04/2021
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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

27/01/2020

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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

27/01/2022

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Prepared By: Dr. Sanjeev Jakhar, ME, SET

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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 10/2/2020

27/02/20

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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

27/01/2020
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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

Faculty Name: Dr. Vivek Pandey

27/01/2022

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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

27/01/2020

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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

27/10/2020
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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

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 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 12/08/2019

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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

27/01/2020
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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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Prepared By: Dr. Sanjeev Jakhar, Asst. Professor, ME, SET

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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

27/01/2021

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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

12.2.2022

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 10/24/2020

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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 12/1/2020

27/01/2020

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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			

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

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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

12.2.2020

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

27/9/2019
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Prepared By: Dr. Sanjeev Jakhar, Asst. Professor, ME, SET

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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

10.12.19
Dr. Atul Kumar

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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

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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

27/12/2020

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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 12/2/2019

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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

27/01/2020

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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

27/01/2022

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Prepared By: Dr. Vivek Pandey ME, SET

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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

12.2.22

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

28/Feb/20

Faculty Name: Dr. Vivek Pandey

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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 13/2/2020

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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 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

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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:

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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:

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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

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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

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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

Shikha Kapoor

Signature of the faculty

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School of Design

Course Outcomes

Course Name: Fashion Figure Drawing

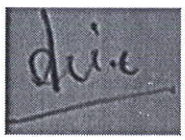
Course Code: MM141

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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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

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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 ıodology 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

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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

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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



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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

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Course Outcomes

Course Name: Design Concept-1

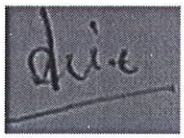
Course Code: FD101

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



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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

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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

Adya Tiwari

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Adya Tiwari

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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

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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

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Course Outcomes

Course Name: Global issues and ethical Trading

Course Code: MM 233

Year: 2nd

Semester: 3rd

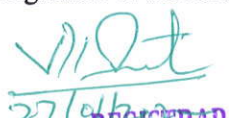
Faculty Name: Mr. Sushil K. Bishnoi

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

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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

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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

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Course Outcomes

Course Name: Fashion Illustration and Presentation Women's wear

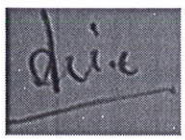
Course Code: FD233

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



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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



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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

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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

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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

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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 odology as compared to traditional methods of hand ing 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

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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
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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

Adya Tiwari

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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

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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

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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

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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

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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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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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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

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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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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

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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

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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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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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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



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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

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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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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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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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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

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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

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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

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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

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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

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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

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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

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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

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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

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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

Adya Tiwari

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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

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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

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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

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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

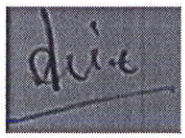
Course Code: FD102

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

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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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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

Shikha Kapoor

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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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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

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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

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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

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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

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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

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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

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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

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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

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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

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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

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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

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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
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