MODY UNIVERSITY
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School of Liberal Arts/ School of Science

Course Outcomes

Course Name: Dietetics

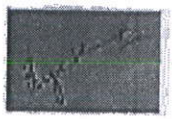
Course Code: FN 312

Year: 2019-20

Semester: Spring

Faculty Name: Dr. Priya Sharma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FN312.1	Understand the scope of dietetics and the role of dietitian in health care	Understand
FN312.2	To study the principles of dietary modification and apply in planning.	Apply
FN312.3	To develop practical skills in planning and management of diets	Create
FN312.4	To understand nutrition-related diseases of the: gut, liver, gallbladder, pancreas, renal and heart.	Understand
FN312.5	To know the etiology, incidence, nature, clinical symptoms, diagnosis, and medical and dietary management of disease.	Remember
FN312.6	To modify the diet plans to suit the disease condition	Apply



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Course Outcomes

Course Name: Maternal and Child Nutrition

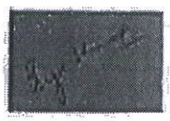
Course Code: FN 311

Year: 2019-20

Semester: Autumn

Faculty Name: Dr. Priya Sharma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FN311.1	Study about the nutritional needs during pregnancy and lactation	Remember
FN311.2	Determine the determinants of birth weight and consequences of low birth weight	Apply
FN311.3	Understand Breastfeeding biology, breastfeeding support and counselling	Understand
FN311.4	Explain the guidelines for infant and young child feeding	Understand
FN311.5	Learn assessment and management of moderate and severe malnutrition among children	Apply
FN311.6	Overview maternal and child health care policies and programs.	Understand



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Course Outcomes

Course Name: Food Chemistry

Course Code: FN222

Year: B. Sc FN IIyr

Semester: Spring

Faculty Name: Dr. Nisha

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
222.1	Describe the structure and physical and chemical properties of macronutrients and different food systems	Remember
222.2	Comprehend the chemistry of macronutrients	Understand
222.3	Prepare different food models	Apply
222.4	Analyse the interactions among different macromolecules in different combinations	Analyse
222.5	Assess the different food pigments, dietary fibre and additives present in food and its effect on human health	Evaluate
222.6	Formulate different food combinations	Create

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Course Outcomes

Course Name: Food Science Laboratory

Course Code: FN122

Year: First

Semester: II

Faculty Name: Dr. Sunita

PO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FN222 .1	To become familiar with the endogenous and exogenous organisms found in the food	Understand
FN222 .2	Test for carbohydrate, Test for ketoses sugar in food samples	Analyse
FN222 .3	Estimation of Chlorophyll "a", "b", Total in given different plantleaves samples, Total phenol content in various flowers & vegetables	Evaluate
FN222 .4	Qualitative test for presence of Amino acid in a given test sample	Evaluate
FN222 .5	Determination of saponification value, acid value of fat/Oil	Analyse
FN222 .6	To test the effectiveness of blanching method by peroxidase enzyme inactivation	Create

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Course Outcomes

Course Name: **Food Science**

Course Code: FN112

Year: First year

Semester: II

Faculty Name: Dr. Sunita

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FN112.1	Classify and distinguish between the types of cereals, nutritional value, fortification and various recipes to be applied for planning of a diet.	Apply
FN112.2	Classification and nutritional quality analysis of vegetables and fruits as well as the types of changes occurring during various stages, methods used for storage of the fruits.	Understand
FN112.3	Different types of milk products, composition, nutritive value; Egg, meat qualities, home preservation and storage; fleshy foods, effect of cooking on the same.	Understand
FN112.4	Type of Fish: nutritive value, various precautions required for cooking up the recipes; effect on texture and flavor.	Analyze
FN112.5	Types of Fats and Oil: composition and nutritive value, rancidity, smoking temperature etc. Spices and condiments: types and uses in Indian Cookery.	Understand
FN112.6	Qualities of beverages: Coffee, tea, cocoa milk, fruit juices- in terms of nutritive value and classification.	Understand

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Course Outcomes

Course Name: Cell Biology

Course Code: BT 151

Year: 2019-20

Semester: Autumn

Faculty Name: Dr. R.S. Chundawat

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BT 151.1	To understand the concept of cell and cell theory	Understand
BT 151.2	Understand the structure of cell membrane and its functions	Understand
BT 151.3	Understand the structure of GERL system and its functions	Understand
BT 151.4	Understand the structure of mitochondria and its functions	Understand
BT 151.5	Understand the structure of Nucleus and its functions	Understand
BT 151.6	Understand the Cell division process and cell cycle	Understand

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Course Outcomes

Course Name: Genetic

Course Code: BT 152

Year: 2019-20

Semester: Spring

Faculty Name:

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BT 152.1	Understand different inheritance laws.	Understand
BT 152.2	Understand sex determination in organisms	Understand
BT 152.3	Understand sex linked inheritance in organisms	Understand
BT 152.4	Understand Extra Chromosomal inheritance patterns	Understand
BT 152.5	Understand human genetics	Understand
BT 152.6	Understand genetics aspects at population level	Understand

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Course Outcomes

Course Name: Cell Biology Lab

Course Code: BT 161

Year: 2019-20

Semester: Autumn

Faculty Name: Dr. R.S. Chundawat

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BT 161.1	Identify structural aspects of Cell	Understand
BT 161.2	Identify Presence of antigen on plasma membrane	Understand
BT 161.3	Identify various type of cells	Understand
BT 161.4	Learning the process of slide preparation of tissue	Learning
BT 161.5	Understanding the aspect of microscopy	Understand
BT 161.6	Understanding and Preparation of slides for learning cell division.	Understand

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Course Outcomes

Course Name: Commonwealth Literature-II

Course Code: EL 682

Year: 2019-20

Semester: Spring

Faculty Name: Prof. A.S.Rao

Course Outcomes (CO)

EL682.1		Analyze
EL682.2	Discuss different varieties of satire and the novel, and explain how these modes influenced the development of the English literary tradition.	Understand
EL682.3	Read and explicate difficult texts.	Apply
EL682.4	Provide detailed rhetorical analysis of different texts.	Remember
EL682.5	Construct clear, well-substantiated, and thoughtful written arguments.	Evaluate
EL682.6	Generate a viewpoint to a range of genres i.e. poetry and the novel.	Create

7.6.20

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Course Outcomes

Course Name: Commonwealth Literature-I

Course Code: EL 681

Year: Second

Semester: Third (Autumn)

Faculty Name: Dr. Ashok Singh Rao

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
EL681.1	Develop knowledge of and ability to analyse the key texts and concepts of this period of literary history	Create
EL681.2	Define 'Romanticism'	Remember
EL681.3	List key writers and works of Romanticism	Apply
EL681.4	Compare and contrast characteristics of Romantic poetry to Romantic literature.	Analyze
EL681.5	Assess the historical and social events of the Romantic Period.	Evaluate
EL681.6	Relate the poem to the real life and compose poetry.	Understand

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11/11/2019

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Course Outcomes

Course Name: Principles of Criticism-II

Course Code: EL 662

Year: 2018-19

Semester: Spring

Faculty Name: Dr A S Rao

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
EL662.1	Explain the meaning, elements, and characteristics of literature.	Understand
EL662.2	Develop skills in understanding literary piece.	Create
EL662.3	Classify the techniques of early literary criticisms and their principles.	Analyze
EL662.4	Justify the appropriateness of various theories and theorists.	Evaluate
EL662.5	Function effectively as an individual, and as a member or leader in diverse teams and in multidisciplinary settings.	Apply
EL662.6	Describe literature and its forms, Literary standards, Literary approaches, Importance of literature.	Remember

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Course Outcomes

Course Name: Eleventh Century to Twelve Century English Literature-II

Course Code: EL 582

Year: 2019-20

Semester: Spring

Faculty Name: Prof. A.S.Rao

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
EL582.1	Discuss different varieties of satire and the novel,	Discuss
EL582.2	Explain how these modes influenced the development of the English literary tradition.	Understand
EL582.3	Read and explicate difficult texts.	Apply
EL582.4	Provide detailed rhetorical analysis of different texts.	Remember
EL582.5	Construct clear, well-substantiated, and thoughtful written arguments.	Evaluate
EL582.6	Generate a viewpoint to a range of genres i.e. poetry and the novel.	Create

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7.2.20

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Course Outcomes

Course Name: 18th Century to 20th English Literature-I

Course Code: EL 571

Year: First

Semester: Autumn 2019-20

Faculty Name: Dr. Ashok Singh Rao

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
EL571.1	Recognize poetry from a variety of cultures, languages and historic periods.	Evaluate
EL571.2	Identify personal experiences that can be used when writing poems	Remember
EL571.3	Analyze the various elements of poetry, such as diction, tone, form, genre, imagery, figures of speech, symbolism, theme, etc.	Analyze
EL571.4	Develop their critical thinking skills.	Create
EL571.5	Describe their vocabularies and to develop an appreciation of language and its connotations and denotations.	Understand
EL571.6	Examine the rhythms, metrics and other musical aspects of poetry.	Apply

1.11.19

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Course Outcomes

Course Name: English Literature: Pre- romantics & Romantics- I

Course Code: EL 351

Year: Third

Semester: Autumn

Faculty Name: Dr. Ashok Singh Rao

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
EL351.1	Develop knowledge of and ability to analyse the key texts and concepts of this period of literary history	Create
EL351.2	Define 'Romanticism'	Remember
EL351.3	List key writers and works of Romanticism	Apply
EL351.4	Compare and contrast characteristics of Romantic poetry to Romantic literature.	Analyze
EL351.5	Assess the historical and social events of the Romantic Period.	Evaluate
EL351.6	Relate the novel to the real life and understand various psyches.	Understand

1.11.19

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Course Outcomes

Course Name: English Literature : Pre Romantics & Romantics-II

Course Code: EL 342

Year: 2019-20

Semester: Spring

Faculty Name: Prof. A.S.Rao

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
EL342.1	Develop knowledge of and ability to analyse the key texts and concepts of this period of literary history	Create
EL342.2	Define 'Romanticism'	Remember
EL342.3	List key writers and works of Romanticism	Apply
EL342.4	Compare and contrast characteristics of Romantic poetry to Romantic literature.	Analyze
EL342.5	Assess the historical and social events of the Romantic Period.	Evaluate
EL342.6	Relate the poem to the real life and compose poetry.	Understand

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Course Outcomes

Course Name: English Literature : Pre and Post Elizabethans

Course Code: EL 341

Year: Third

Semester: Autumn

Faculty Name: Dr. Ashok Singh Rao

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
EL341.1	Develop knowledge of and ability to analyse the key texts and concepts of this period of literary history	Create
EL341.2	Define 'Romanticism'	Remember
EL341.3	List key writers and works of Romanticism	Apply
EL341.4	Compare and contrast characteristics of Romantic poetry to Romantic literature.	Analyze
EL341.5	Assess the historical and social events of the Romantic Period.	Evaluate
EL341.6	Relate the poem to the real life and compose poetry.	Understand

7.11.2019

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Course Outcomes

Course Name: Foundation Course in English

Course Code: EL 101

Year: I

Semester: I (Autumn)

Faculty Name: Dr. Sunita Verma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
EL 101.1	Gain confidence in communicating in English in a variety of everyday situations.	Apply
EL 101.2	Enable the learner to use productive grammar and functions in daily use	Understand
EL 101.3	Aid in Listening, reading and speaking for daily communication, discussions and presentations	Apply
EL 101.4	Help in writing skills for well-structured sentences	Apply
EL 101.5	Develop Speaking fluency and accuracy	Apply
EL 101.6	Develop active vocabulary for a wide variety of themes	Create

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Course Outcomes

Course Name: English Poetry-I

Course Code: EL111

Year: First

Semester: Autumn

Faculty Name: Dr. Ashok Singh Rao

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
EL111.1	Recognize poetry from a variety of cultures, languages and historic periods.	Evaluate
EL111.2	Identify personal experiences that can be used when writing poems	Remember
EL111.3	Analyze the various elements of poetry, such as diction, tone, form, genre, imagery, figures of speech, symbolism, theme, etc.	Analyze
EL111.4	Develop their critical thinking skills.	Create
EL111.5	Describe their vocabularies and to develop an appreciation of language and its connotations and denotations.	Understand
EL111.6	Examine the rhythms, metrics and other musical aspects of poetry.	Apply

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Course Outcomes

Course Name: English Poetry-II

Course Code: EL 112

Year: 2019-20

Semester: Spring

Faculty Name: Dr. A.S.Rao

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
EL112.1	Recognize poetry from a variety of cultures, languages and historic periods.	Evaluate
EL112.2	Identify personal experiences that can be used when writing poems	Remember
EL112.3	Analyze the various elements of poetry, such as diction, tone, form, genre, imagery, figures of speech, symbolism, theme, etc.	Analyze
EL112.4	Develop their critical thinking skills.	Create
EL112.5	Describe their vocabularies and to develop an appreciation of language and its connotations and denotations.	Understand
EL112.6	Examine the rhythms, metrics and other musical aspects of poetry.	Apply

7.2.20

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Course Name: Media Lab

Course Code: JM 322

Year: 2019-20

Semester: Spring

Faculty Name: Rajeev Kumar Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
JM 322.1	Interpret the basics of any relevant current issues	Understand
JM 322.2	Use the skill for research on any specific topic	Apply
JM 322.3	Classify the different aspect of chosen subjects or topic	Analyse
JM 322.4	Develop the programme format as per their research	Create
JM 322.5	Create & record the programme or penal discussion	Create
JM 322.6	Integrate all the technical aspect and produce master programme	Create

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Course Outcomes

Course Name: Introduction to Communication & Media

Course Code: JM 111

Year: 2019-20

Semester: Autumn

Faculty Name: Rajeev Kumar Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
JM 111.1	Identify different types of communication	Remember
JM 111.2	Explain history of media	Understand
JM 111.3	Differentiate communication types	Understand
JM 111.4	Summaries development of electronic media	Understand
JM 111.5	Describe Mass media	Understand
JM 111.6	Describe mass media in different culture & development	Remember

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Course Outcomes

Course Name: Theory of Communication

Course Code: JM 112

Year: 2019-20

Semester: Spring

Faculty Name: Rajeev Kumar Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
JM 112.1	Discuss the different facets of human communication	Understand
JM 112.2	Assess the kye theoretical approaches of communication	Evaluate
JM 112.3	Examine the use of theory in different form of communication	Apply
JM 112.4	Interpret use of communication theory in interdisciplinary field	Understand
JM 112.5	Classify the evolution of communication models & theory	Analyse
JM 112.6	Formulate any theory in a given situation	Create

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Course Outcomes

Course Name: Introduction to Journalism

Course Code: JM 121

Year: 2019-20

Semester: Autumn

Faculty Name: Rajeev Kumar Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
JM 121.1	Define news & its meaning	Remember
JM 121.2	Interpret different types of news writing	Remember
JM 121.3	Demonstrate writing for newspaper & magazine	Apply
JM 121.4	Identify the technique of reporting	Remember
JM 121.5	Discuss different types of Reporting	Understand
JM 121.6	Explain the role of editing & editor	Understand

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Course Outcomes

Course Name: Writing For Media

Course Code: JM 122

Year: 2019-20

Semester: Spring

Faculty Name: Rajeev Kumar Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
JM 122.1	Differentiate the stories of mass media	Understand
JM 122.2	Demonstrate the skill of write soft & hard stories	Apply
JM 122.3	Measure the appropriate source & background material of any story	Evaluate
JM 122.4	Develop feature story and opinion	Create
JM 122.5	Demonstrate the skill of writing for electronic media	Apply
JM 122.6	Compose a capsule of mix stories for electronic media	Create

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Course Outcomes

Course Name: Writing For Media - I

Course Code: JM 131

Year: 2019-20

Semester: Autumn

Faculty Name: Rajeev Kumar Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
JM 131.1	Discuss different type of writing.	Understand
JM 131.2	Explain the different types of news writing.	Understand
JM 131.3	Describe the elements of writing.	Remember
JM 131.4	Demonstrate the writing skill for electronic media.	Apply
JM 131.5	Apply the writing skill in electronic media.	Apply
JM 131.6	Summaries the technique of interviews.	Understand

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Course Outcomes

Course Name: Practical – Reporting & Editing

Course Code: JM 132

Year: 2019-20

Semester: Spring

Faculty Name: Rajeev Kumar Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
JM 132.1	Describe the basics of reporting	Remember
JM 132.2	Differentiate the beats of reporting	Understand
JM 132.3	Demonstrate the techniques of reporting	Apply
JM 132.4	Illustrate the techniques of writing different stories	Analyse
JM 132.5	Develop the questionnaire for interview	Create
JM 132.6	Compose the editing work with different editing symbols	Create

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Course Outcomes

Course Name: Project & Presentation for Print

Course Code: JM 141

Year: 2019-20

Semester: Autumn

Faculty Name: Rajeev Kumar Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
JM 141.1	Identify the different current issues.	Remember
JM 141.2	Recall all important news trending in media.	Remember
JM 141.3	Categories different issues in news.	Analyze
JM 141.4	Design report on current issues	Create
JM 141.5	Asses all the aspect of current topics.	Evaluate
JM 141.6	Develop power point presentation on given topic.	Create

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Course Outcomes

Course Name: News & Contemporary Issues - II

Course Code: JM 142

Year: 2019-20

Semester: Spring

Faculty Name: Rajeev Kumar Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
JM 142.1	Identify the different types of news.	Remember
JM 142.2	Recall all important bill & amendment passed by parliament.	Remember
JM 142.3	Explain international political scenario.	Understand
JM 142.4	Discuss economic news.	Understand
JM 142.5	Define important world body like UN, BRICS, EU, SAARC.	Remember
JM 142.6	Demonstrate the skill of discussion on current affairs topics.	Apply

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Course Outcomes

Course Name: News & Contempory Issues - I

Course Code: JM 151

Year: 2019-20

Semester: Autumn

Faculty Name: Rajeev Kumar Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
JM 151.1	Identify the different types of news.	Remember
JM 151.2	Recall all important bill & amendment passed by parliament.	Remember
JM 151.3	Explain international political scenario.	Understand
JM 151.4	Discuss economic news.	Understand
JM 151.5	Define important world body like UN, BRICS, EU, SAARC.	Remember
JM 151.6	Demonstrate the skill of discussion on current affairs topics.	Apply

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Course Outcomes

Course Name: Basics of Design & Graphics

Course Code: JM 152

Year: 2019-20

Semester: Spring

Faculty Name: Rajeev Kumar Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
JM 152.1	Define the principle of graphic designing	Remember
JM 152.2	Categorize the various element of design in graphics	Apply
JM 152.3	Develop the sense of designing aesthetics	Create
JM 152.4	Use different texture in graphic design	Apply
JM 152.5	Design news paper and magazines	Create
JM 152.6	Describe the various form of graphics	Understand

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Course Outcomes

Course Name: Computer Application for Mass Media

Course Code: JM 161

Year: 2019-20

Semester: Autumn

Faculty Name: Rajeev Kumar Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
JM 161.1	Interpret the operating system and start applications	Understand
JM 161.2	Describe basic functions of file management.	Understand
JM 161.3	Differentiate basic functions of word processor & spreadsheet	Understand
JM 161.4	Use the print settings and print documents	Apply
JM 161.5	Design poster, card, brochures.	Create
JM 161.6	Design newspaper page & magazine.	Create

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Course Outcomes

Course Name: Practical- Design and Graphics Lab

Course Code: JM 162

Year: 2019-20

Semester: Spring

Faculty Name: Rajeev Kumar Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
JM 162.1	Develop the layout of newspaper	Create
JM 162.2	Show their creative thinking in design	Apply
JM 162.3	Design the logo, poster and brochure	Create
JM 162.4	Design the newspaper and magazines	Create
JM 162.5	Modify the photograph and graphics	Apply
JM 162.6	Illustrate the advertisement and visual communication	Apply

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Course Outcomes

Course Name: Reporting & Editing

Course Code: JM 211

Year: 2019-20

Semester: Autumn

Faculty Name: Rajeev Kumar Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
JM 211.1	List down the Reporting Skill	Remember
JM 211.2	Identify news for different medium	Remember
JM 211.3	Interpret the techniques of writing.	Understand
JM 211.4	Describe the duty of reporters.	Understand
JM 211.5	Differentiate the aspects of reporting.	Understand
JM 211.6	Use the editing tools & symbols.	Apply

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Course Outcomes

Course Name: Introduction to TV Journalism & Production

Course Code: JM 212

Year: 2019-20

Semester: Spring

Faculty Name: Rajeev Kumar Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
JM 212.1	Describe about the development & concepts of documentaries & TV programs	Understand
JM 212.2	Demonstrate scripting, directing, camera, editing & programming	Apply
JM 212.3	Interpret basic concepts & terminology specific to TV media.	Understand
JM 212.4	Formulate knowledge of TV production	Create
JM 212.5	Develop the skill of producing fiction and non-fiction programmes	Create
JM 212.6	Discuss the impact of audio-visual media on masses	Understand

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Course Outcomes

Course Name: Media Laws & Ethics

Course Code: JM 221

Year: 2019-20

Semester: Autumn

Faculty Name: Rajeev Kumar Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
JM 221.1	Describe the fundamentals of Indian constitution.	Remember
JM 221.2	Explain the role of press in democratic system.	Understand
JM 221.3	Explain the ethics of media.	Understand
JM 221.4	List down the different acts & rules of media	Remember
JM 221.5	Interpret the laws & restriction on media	Understand
JM 221.6	Discuss the rights of journalists.	Understand

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Course Outcomes

Course Name: Photo Journalism

Course Code: JM 222

Year: 2019-20

Semester: Spring

Faculty Name: Rajeev Kumar Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
JM 222.1	Describe the parts of digital camera	Remember
JM 222.2	Identify the different types of photography,	Remember
JM 222.3	Discuss the composition of Photography	Understand
JM 222.4	Determine the types of lighting in photography.	Apply
JM 222.5	Explain the role of picture in news.	Understand
JM 222.6	Use of picture & caption in news.	Apply

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Course Outcomes

Course Name: Practical of Reporting & Editing

Course Code: JM 231

Year: 2019-20

Semester: Autumn

Faculty Name: Rajeev Kumar Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
JM 231.1	Differentiate the reporting beats.	Understand
JM 231.2	Discuss the techniques of interview.	Understand
JM 231.3	Use the basics of news writing.	Apply
JM 231.4	Demonstrate the writing skills for different beats.	Apply
JM 231.5	Create headlines and design for newspaper.	Create
JM 231.6	Assess the different opinion on current topics.	Evaluate

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Course Outcomes

Course Name: Practical of Camera & Light

Course Code: JM 232

Year: 2019-20

Semester: Spring

Faculty Name: Rajeev Kumar Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
JM 232.1	Differentiate the aspects of light	Understand
JM 232.2	Describe the technicalities of Camera	Understand
JM 232.3	Use the effect of light	Apply
JM 232.4	Assess the combination of light and camera	Evaluate
JM 232.5	Generate the creative photographs	Create
JM 232.6	Develop the effect with light and camera	Create

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Course Outcomes

Course Name: Introduction to Broadcast Media

Course Code: JM 241

Year: 2019-20

Semester: Autumn

Faculty Name: Rajeev Kumar Singh`

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
JM 241.1	Describe sound as a medium.	Remember
JM 241.2	Differentiate the techniques & characteristics of sounds	Understand
JM 241.3	Discuss the different aspects of visual medium.	Understand
JM 241.4	Operate the camera & its movement.	Apply
JM 241.5	Differentiate the aspects of TV production.	Understand
JM 241.6	Demonstrate the editing techniques on software.	Apply

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Course Outcomes

Course Name: Practical Photography

Course Code: JM 242

Year: 2019-20

Semester: Spring

Faculty Name: Rajeev Kumar Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
JM 242.1	Describe the basics & techniques of Camera operation& photography	Understand
JM 242.2	Use of photojournalism in various platforms of media & communication	Apply
JM 242.3	Generate work as free-lance photojournalist	Create
JM 242.4	Categorize the different section of photography	Analyse
JM 242.5	Justify the different type of story	Evaluate
JM 242.6	Create own portfolio with some out of box photography	Create

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Course Outcomes

Course Name: Film Appreciation

Course Code: JM 251

Year: 2019-20

Semester: Autumn

Faculty Name: Rajeev Kumar Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
JM 251.1	Discuss the aspects of film.	Understand
JM 251.2	Differentiate the sound & visual style of film.	Understand
JM 251.3	Differentiate Story plot & screenplay	Understand
JM 251.4	Contrast of commercial & noncommercial film.	Understand
JM 251.5	Describe the journey of Indian cinema.	Remember
JM 251.6	Discuss the changing trend of cinema in 21st century.	Understand

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Course Outcomes

Course Name: Development Communication

Course Code: JM 252

Year: 2019-20

Semester: Spring

Faculty Name: Rajeev Kumar Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
JM 252.1	Differentiate the development model	Understand
JM 252.2	Interpret the socio-economic development	Understand
JM 252.3	Describe the role of communication in development	Understand
JM 252.4	Illustrate the development scenario and communication	Analyse
JM 252.5	Differentiate between communication and development communication	Understand
JM 252.6	Use of different media in development communication	Apply

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Course Outcomes

Course Name: Media Management

Course Code: JM 261

Year: 2019-20

Semester: Autumn

Faculty Name: Rajeev Kumar Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
JM 261.1	Describe the media as an industry.	Remember
JM 261.2	Explain the ownership pattern of media houses.	Understand
JM 261.3	List down the changing pattern of TV, Radio & Film industry.	Remember
JM 261.4	Interpret the relation between media & market.	Understand
JM 261.5	Explain the media in the era of globalization.	Understand
JM 261.6	Interpret the social media and its management.	Understand

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Course Outcomes

Course Name: Practical Documentary Production

Course Code: JM 262

Year: 2019-20

Semester: Spring

Faculty Name: Rajeev Kumar Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
JM 262.1	Identify the different modes of communication	Remember
JM 262.2	Discuss the all forms of production	Understand
JM 262.3	Demonstrate the scripting	Apply
JM 262.4	Outline preparation outline & budgeting of documentary	Analyse
JM 262.5	Integrate all the aspect of shooting	Create
JM 262.6	Design the set -outdoor & indoor.	Create

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Course Outcomes

Course Name: Advanced Broadcast Media

Course Code: JM 272

Year: 2019-20

Semester: Spring

Faculty Name: Rajeev Kumar Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
JM 272.1	Summarize the development of broadcast technology	Understand
JM 272.2	Discuss the basic of TV transmission technology	Understand
JM 272.3	Measure the skill of lighting	Evaluate
JM 272.4	Design fiction and non-fiction programmes	Create
JM 272.5	Demonstrate the skill of production phases	Apply
JM 272.6	Develop own audio-visual programme	Create

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Course Outcomes

Course Name: International Communication

Course Code: JM 282

Year: 2019-20

Semester: Spring

Faculty Name: Rajeev Kumar Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
JM 282.1	Discuss the world in context of flow of information	Understand
JM 282.2	Describe different convention & development in communication	Remember
JM 282.3	Describe the world politics and economics	Understand
JM 282.4	Demonstrate the knowledge of writing on global issues	Apply
JM 282.5	Interpret the knowledge of international developments	Understand
JM 282.6	Assess about India's foreign policy	Evaluate

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Course Outcomes

Course Name: Radio Journalism

Course Code: JM 311

Year: 2019-20

Semester: Autumn

Faculty Name: Rajeev Kumar Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
JM 311.1	Define the various nuances of Radio	Remember
JM 311.2	Interpret the different faces of radio jockeying	Understand
JM 311.3	Design the format & script for programs & news bulletin	Create
JM 311.4	Demonstrate the skill of presenter	Apply
JM 311.5	Compare the different radio programme as per target audience	Evaluate
JM 311.6	Build their own radio programe in any one category	Create

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Course Name: Cyber Journalism

Course Code: JM 312

Year: 2019-20

Semester: Spring

Faculty Name: Rajeev Kumar Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
JM 312.1	Explain basic concepts, acts and theory of New Media	Understand
JM 312.2	Classify pros and cons of new media	Analyse
JM 312.3	Assess the use of new media for various messages.	Evaluate
JM 312.4	Compose write up for new media messages	Create
JM 312.5	Interpret the various culture and digital journalism	Understand
JM 312.6	Develop script for digital media and cyber journalism	Create

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Course Outcomes

Course Name: Public Relation & Advertising

Course Code: JM 321

Year: 2019-20

Semester: Autumn

Faculty Name: Rajeev Kumar Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
JM 321.1	Describe the basics of PR & advertising and their role	Understand
JM 321.2	Illustrate the corporate communication strategies	Analyse
JM 321.3	Interpret the corporate identity, vision & values.	Understand
JM 321.4	Assess the corporate objective & marketing goal.	Evaluate
JM 321.5	Formulate copy for advertisement & PR activity	Create
JM 321.6	Design the PR & Adv campaign for corporates	Create

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Course Outcomes

Course Name: INDIAN POLITICAL THOUGHT-I

Course Code: PS 121

Year: FIRST

Semester: AUTUMN 19-20

Faculty Name: Dr. Kumar Sambhav Pareek

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PS 121.1	Identify the evolution of Indian political thought from ancient India to modern India.	Remember
PS 121.2	Demonstrate knowledge of key thinkers and concepts	Apply
PS 121.3	Discuss the concepts to analyze contemporary situations	Understand
PS 121.4	Compare thinkers on similar concept	Evaluate
PS 121.5	Interpret the various social and political ideas of Indian political thinker	Understand
PS 121.6	Analyze the views of Indian political thinkers	Analyze

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Course Outcomes

Course Name: INDIAN POLITICAL THOUGHT-II

Course Code: PS 122

Year: FIRST

Semester: SPRING

Faculty Name: Dr. Kumar Sambhav Pareek

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PS 122.1	Identify the evolution of Indian political thought from ancient India to modern India.	Remember
PS 122.2	Demonstrate knowledge of key thinkers and concepts	Apply
PS 122.3	Discuss the concepts to analyze contemporary situations	Understand
PS 122.4	Compare thinkers on similar concept	Evaluate
PS 122.5	Interpret the various social and political ideas of Indian political thinker	Understand
PS 122.6	Analyze the views of Indian political thinkers	Analyze

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Course Outcomes

Course Name: Political Theory-I

Course Code: PS 141

Year: FIRST

Semester: AUTUMN 19-20

Faculty Name: Dr. Kumar Sambhav Pareek

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PS 141.1	Understand the Definition, Traditional and Contemporary Approaches	Understand
PS 141.2	Understand the Institutional, Behavioural, post-Behavioural	Understand
PS 141.3	Understand the systems Analysis	Understand
PS 141.4	Understand the Political Concepts	Understand
PS 141.5	Understand the Power, Authority and Legitimacy	Understand
PS 141.6	Understand the theories of Justice	Understand

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Course Outcomes

Course Name: Political Theory-II

Course Code: PS 142

Year: 2019-2020

Semester: Spring

Faculty Name: Dr. Neha Bhartiya

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PS142.1	Develop an understanding of different forms of Democracy	Understand
PS142.2	Demonstrate Knowledge of various ideologies	Apply
PS142.3	Identify development of various ideologies in contemporary times	Remember
PS142.4	Compare various regime systems	Evaluate
PS142.5	Analyze new trends in political theory	Analyze
PS142.6	Discuss the new factors which are shaping the world understanding	Understand

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Course Outcomes

Course Name: INDIAN GOVERNEMENT & POLITICS-I

Course Code: PS 211

Year: SECOND

Semester: AUTUMN

Faculty Name: Dr. Kumar Sambhav Pareek

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PS 212.1	To identify the causes, impact of British colonial rule and to appreciate the various phases of Indian national movement.	Remember
PS 212.2	To describe the philosophy of Indian constitutions.	Understand
PS 212.3	To evaluate the various Government of Indian acts their provision and reforms.	Evaluate
PS 212.4	Assess the main features of Indian constitution.	Evaluate
PS 212.5	To Examine the fundamental rights and duties and the directive principle of state policy	Apply
PS 212.6	Analyze the impact of different challenges to Indian democracy	Analyze

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Course Outcomes

Course Name: INDIAN GOVERNEMENT & POLITICS-II

Course Code: PS 212

Year: SECOND

Semester: SPRING

Faculty Name: Dr. Kumar Sambhav Pareek

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PS 212.1	Remember the structures of government at the National level.	Remember
PS 212.2	Summarize the structures of government at the National level.	Understand
PS 212.3	Evaluate the structures of government at the National level.	Evaluate
PS 212.4	Assess the role of different structures of government and politics.	Evaluate
PS 212.5	Examine the role of different structures of Indian polity	Apply
PS 212.6	Analyze the impact of different structures of Indian government on polity	Analyze

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Course Outcomes

Course Name: Comparative Government & Politics-I

Course Code: PS 221

Year: 2019-2020

Semester: Autumn

Faculty Name: Dr. Neha Bhartiya

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PS 221.1	Trace the evolution of Comparative Politics as a discipline and drawing a distinction between Comparative Politics and Comparative Government	Understand
PS 221.2	Identify the nature and scope of Comparative Politics.	Remember
PS 221.3	Analyse the approaches and models of comparison in Developed & developing societies.	Analyse
PS 221.4	Develop acquaintance with the nature and working of Political Parties and pressure Groups	Create
PS 221.5	Critically analyze the features of a liberal democratic and socialist political system with focus on UK, USA and the People's Republic of China.	Analyse
PS 221.6	Demonstrate Basic Understanding of core concepts in Comparative Politics studies.	Apply

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Course Outcomes

Course Name: Comparative Government & Politics-II

Course Code: PS 222

Year: 2019-2020

Semester: Spring

Faculty Name: Dr. Neha Bhartiya

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PS222.1	Discuss the features of Federal, Parliamentary, Presidential political system	Understand
PS222.2	Compare the Executive; Legislature; the Judiciary of various countries	Evaluate
PS222.3	Identify different functions of the government under different systems	Remember
PS222.4	Compare the political system of five countries with India	Evaluate
PS222.5	Define recent and contemporary practices in the functioning of government	Remember
PS222.6	Analyse different models of Judiciary, legislature & Executive	Analyse

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Course Outcomes

Course Name: Western Political Thought From Plato to Bodin

Course Code: PS 331

Year: 2019-2020

Semester: Autumn

Faculty Name: Dr. Neha Bhartiya

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PS 331.1	Identify the dominant features of Early Western Political thought	Remember
PS 331.2	Interpret the features of Medieval Political Thought	Understand
PS 331.3	Critically Analyse the ancient Greek political thought with focus on Aristotle and Plato	Analyse
PS 331.4	Understand Roman Political Thought & its contributions	Understand
PS 331.5	Explore the relation between church and state in medieval era and emergence of the concept of western secularism	Apply
PS 331.6	Develop an understanding to the background of modern political thought	Create

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Course Outcomes

Course Name: Western Political Thought From Hobbes to Marx

Course Code: PS 332

Year: 2019-2020

Semester: Spring

Faculty Name: Dr. Neha Bhartiya

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PS332.1	Critically examine Hobbes as the founder of the science of materialist politics; Locke as the founder of Liberalism with focus on his views on natural rights, property and consent; and Rousseau's views on Freedom and Democracy;	Evaluate
PS332.2	Understand Hegel's & Green's views on Civil Society and State;	Understand
PS332.3	Demonstrate Critical understanding of Bentham's Utilitarianism; and John Stuart Mill's views on liberty and representative government	Apply
PS332.4	To analyse the Marxist philosophy in making a better society	Analyse
PS332.5	Compare the diverse view on the nature of Social Contract	Evaluate
PS332.6	Interpret various western political thinkers and their evolution of thought	Remember

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Course Outcomes

Course Name: International Relations- I

Course Code: PS 341

Year: 2019-2020

Semester: Autumn

Faculty Name: Dr. Neha Bhartiya

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PS 341.1	Explain scope and subject matter of International Relations as an autonomous Academic discipline.	Understand
PS 341.2	Analyse Approaches and methods to study the discipline through Political realism, Pluralism and Worlds system's Model.	Analyse
PS 341.3	Know the impact of first world war and second world war and its causes and Consequences	Understand
PS 341.4	Evaluate the post war developments through the emergence of third world.	Evaluate
PS 341.5	Define dynamic nature of International relations and importance of having a systematic framework in order to evaluate issues in world politics	Remember
PS 341.6	Explore contemporary theories in International Relations.	Apply

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Course Outcomes

Course Name: International Relations-II

Course Code: PS 342

Year: 2019-2020

Semester: Spring

Faculty Name: Dr. Neha Bhartiya

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PS342.1	Examining Indian Foreign Policy: Basic Principles, Evolution and Bilateral Relations	Apply
PS342.2	Evaluating the working of UN and its organs; Peace keeping Function and Human Rights	Evaluate
PS342.3	Analysing the need and relevance of Regional organisations and discussing importance of Economy in contemporary world	Analyse
PS342.4	Understand the international political economy & to analyse the international security Arms Race. Arms control and Disarmament.	Understand
PS342.5	Discuss the Foreign Policy of important Nations in the world	Understand
PS342.6	Identify the developments in third world countries in post-world war II era	Remember

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Course Outcomes

Course Name: Contemporary Political Thought

Course Code: PS 351

Year: 2019-2020

Semester: Autumn

Faculty Name: Dr. Neha Bhartiya

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PS 351.1	Define the contemporary discourses in political theory	Remember
PS 351.2	Handle complex and abstract arguments in political theory	Apply
PS 351.3	Develop a conceptual framework in the understanding of the ideological processes in the contemporary world	Create
PS 351.4	Compare the theories of different political thinkers and political scientists	Evaluate
PS 351.5	Analyse the utility of theories given by Political Thinkers	Analyse
PS 351.6	Understand the growth of political theory in contemporary times	Understand

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Course Outcomes

Course Name: Indian Foreign Policy

Course Code: PS 352

Year: 2019-2020

Semester: Spring

Faculty Name: Dr. Neha Bhartiya

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PS352.1	Discuss the foreign policy their determinants features& its relevance.	Understand
PS352.2	Critically analyse the Indian's bilateral relations with major power and neighbouring countries.	Analyse
PS352.3	Identify various issues and challenges towards international relations	Remember
PS352.4	Analyse the changing relations in the sub-continent over the years.	Analyse
PS352.5	Discuss the formation of major institutions in regulating Political economy	Understand
PS352.6	Evaluate the major challenges in Contemporary scenario	Evaluate

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Course Outcomes

Course Name: PUBLIC POLICY-I

Course Code: PS 361

Year: THIRD

Semester: AUTUMN

Faculty Name: Dr. Kumar Sambhav Pareek

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PS 361.1	Demonstrate knowledge and understanding of public policy analytical tools.	Apply
PS 361.2	Describe different models of policy analysis	Understand
PS 361.3	Analyze policy issues	Analyze
PS 361.4	Identify different stages of the Public policy process in terms of theoretical formulation and the process	Understand
PS 361.5	Evaluate how and why public policies emerge	Evaluate
PS 361.6	Apply critical concepts to understand challenges of public sector organization.	Apply

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Course Outcomes

Course Name: Public Policy-II

Course Code: PS 362

Year: 19-20

Semester: Spring

Faculty Name: Dr. Arun Kumar

At the end of the course, students will be able to

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PS 362.1	Understand Policy implementation.	Understand
PS 362.2	Understand Approaches to policy implementation.	Understand
PS 362.3	Understand Policy Evaluation.	Understand
PS 362.4	Understand Policy change and continuity.	Understand
PS 362.5	Understand Globalization of National policy making.	Understand
PS 362.6	Understand Policy agenda in global context.	Understand

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Course Outcomes

Course Name: PRINCIPLES OF PUBLIC ADMINISTRATION-I

Course Code: PS 371

Year: THIRD

Semester: AUTUMN

Faculty Name: Dr. Kumar Sambhav Pareek

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PS 371.1	Discuss the evolution and growth of the discipline of Public Administration.	Understand
PS 371.2	To identify the different types of Administration	Remember
PS 371.3	Assess the basic principles and approaches of Public Administration	Evaluate
PS 371.4	To analyze the administrative theories and concepts to make sense of administrative practices.	Analyze
PS 371.5	familiarize the students with the classic contributions and new research perspectives in the field of public administration	Apply
PS 371.6	Theoretical assessment of basic concepts and dynamics relating to Public organizations.	Evaluate

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Course Outcomes

Course Name: Principles of Public Administration-II

Course Code: PS 372

Year: 19-20

Semester: Spring

Faculty Name: Dr. Arun Kumar

At the end of the course, students will be able to

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PS 372.1	Understand Administrative Behaviour	Understand
PS 372.2	Understand Management of Public Enterprises	Understand
PS 372.3	Understand Control over Public Administration	Understand
PS 372.4	Understand Personnel Administration	Understand
PS 372.5	Understand Financial Administration: Budget Formulation and Execution	Understand
PS 372.6	Understand Parliamentary control.	Understand

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Course Outcomes

Course Name: INDIAN ADMINISTRATION

Course Code: PS 381

Year: THIRD

Semester: AUTUMN

Faculty Name: Dr. Kumar Sambhav Pareek

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PS 381.1	Discuss the evolution and growth of Indian Administration	Understand
PS 381.2	Familiarity with the constitutional framework on which Indian Administration is based	Apply
PS 381.3	Describe the role of Union Executive	Remember
PS 381.4	Analyzing the state and district administration	Analyze
PS 381.5	Examine the Public personnel system of the Indian Republic	Apply
PS 381.6	Assess the Institutions of Financial Administration in India	Evaluate

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Course Outcomes

Course Name: Local Self Government in India

Course Code: PS 382

Year: 19-20

Semester: Spring

Faculty Name: Dr. Arun Kumar

At the end of the course, students will be able to

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PS 382.1	Describe committees on Democratic Decentralization	Understand
PS 382.2	Remember Rural Local Government and Urban Local Government	Remember
PS 382.3	Understand the function of Election and Finance	Understand
PS 382.4	Understand the concept of Indian states from 73rd to 74th amendment act.	Understand
PS 382.5	Understand the concept of SWOT	Understand
PS 382.6	Understand the issues and Themes in Local Government in India	Understand

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Course Outcomes

Course Name: ENT (Practical)

Course Code: BP 261

Year: II

Semester: 3rd

Faculty Name: Dr. Neha Vyas

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BP 261.1	Describe pathophysiology, signs & symptoms, clinical features, examination & management of ENT conditions	Application
BP 261.2	Surgical management of Lower motor neuron diseases for PT	Application
BP 261.3	Post-surgical care, management, patient care of tracheostomy	Application
BP 261.4	Define Hearing loss, causes, and its management	Application

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Course Outcomes

Course Name: Pediatrics (physiotherapy laboratory)

Course Code: BP 262

Year: II

Semester: 4th

Faculty Name: Dr. Neha Vyas

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BP 262.1	Evaluation of early detection and intervention	Evaluate
BP 262.2	Evaluation of milestones	Evaluate
BP 262.3	Evaluation for developmental delay	Evaluate

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Course Outcomes

Course Name: Dermatology (Practical)

Course Code: BP 271

Year: II

Semester: 3rd

Faculty Name: Dr. Neha Vyas

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BP 271.1	Describe pathophysiology, signs & symptoms, clinical features, examination & management of Skin conditions	Evaluate

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Course Outcomes

Course Name: Radiology (Physiotherapy Laboratory)

Course Code: BP 272

Year: II

Semester: 4th

Faculty Name: Dr. Neha Vyas

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BP 272.1	Clinical findings of Xray, MRI, and CT scan for the orthopedic and neurological conditions	Analysis
BP 272.2	Implication of findings in radiology for treatment	Synthesis

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Course Outcomes

Course Name: Exercise Therapy I

Course Code: BP 102

Year: I Year

Semester: 2nd semester

Faculty Name: Dr. Neha Vyas

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BP 20.102.1	Describe basics of exercise therapy including principles, assessment, and importance. Understand the classification and application of movements and positions	Application
BP 20.102.2	Understand Kinematics and kinetics of human body	Understand
BP 20.102.3	Principles and application of MMT and Goniometry	Evaluation
BP 20.102.4	Learning and practice motor learning condition	Remember
BP 20.102.5	Understand Spam, Fatigue during Gymnasium and uses of relaxation therapies after gymnasium	Application and understand
BP 20.102.6	Identify the movement and apply the exercises for the patients	Apply

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Course Outcomes

Course Name: Human Anatomy-I

Course Code: BP 111

Year: 1st

Semester: First

Faculty Name: Dr. Neha Vyas

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BP 111.1	Understand histology of cell, tissue, blood, and development of skin and embryology	Remember
BP 111.2	Describe the various systems of human body (anatomically) like digestive system, cardiovascular system, reproductive system, and endocrine system	Analysis
BP 111.3	Understand the organization and function of CNS, ANS, cranial Nerves and sensory system	Understand
BP 111.4	Understand spinal cord, spinal cord segment, and areas	Understand
BP 111.5	Describe the function of brain and parts of brain, the pyramidal system, blood supply of brain and integration system	Remember
BP 111.6	Understand development structure and function of brain, spinal cord	Create

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Course Outcomes

Course Name: Sociology

Course Code: BP 112

Year: I

Semester: 2nd

Faculty Name: Dr. Neha Vyas

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BS 20.110.1	Understand the meaning and importance of sociology with reference to health care professionals	Understand
BS 20.110.2	Relate social factors and diseases	Remember
BS 20.110.3	Explain socialization, its meaning, and types	Understand
BS 20.110.4	Understand the meaning of family, types, health, and illness of family members related to each other and relation of family health with physiotherapy	Understand
BS 20.110.5	Rule out the social problems of disabled, women (employment and prostitution) and geriatrics population	Understand
BS 20.110.6	Analyses the social factors of patient to evaluate\	Analyses

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Course Outcomes

Course Name: Basics of psychology

Course Code: BP 121

Year: I

Semester: 1st

Faculty Name: Dr. Neha Vyas

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PL 20.111.1	Understand the psychology, its branches, various aspects and how it effects daily living life	Understand
PL 20.111.2	Describe learning and its theories. Analysis of intelligence(tests) and theories	Evaluate and understand
PL 20.111.3	Make difference between motives and drives. Understand theories about emotions	Understand and apply
PL 20.111.4	Analysis of personality, observation of body sings and theories	Evaluate
PL 20.111.5	Understand the causes of stress and stress management	Apply and understand
PL 20.111.6	Analyses the psychological aspects to evaluating patients in OPD	Analyses

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Course Outcomes

Course Name: Human anatomy-II

Course Code: BP 122

Year: I

Semester: 2nd Semester

Faculty Name: Dr. Neha Vyas

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BP 20.104.1	Morphology of Bone structure, function, and composition	Understand
BP 20.104.2	Learn about joint structure, function, muscle attachments, blood supply, never supply and clinical anatomy of joints	Knowledge
BP 20.104.3	Anatomy of Upper extremity and lymphatic drainage	Understand
BP 20.104.4	Describe the detailed anatomy of lower extremities, thorax, Vertebras and intervertebral disc. Ligament and muscle attachment	Understand
BP 20.104.5	Identify the bone and muscles of face and skull bones, thoracic cage, and radiological anatomy of musculoskeletal system	Apply
BP 20.104.6	Understand the anatomical body structure of various segments	Apply

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Course Outcomes

Course Name: Basic nursing, Emergency and CPR (Laboratory)

Course Code: BP 131

Year: I

Semester: 1st

Faculty Name: Dr. Neha Vyas

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BP 20.107.1	Will be able to describe nursing and able to perform the bandaging to various segments of body	Apply
BP 20.107.2	Perform lifting of patient in hospital and clinical settings from bed to wheelchair, transferring the patient in IPDs, perform dressing Post-operative, and CPR	Apply
BP 20.107.3	Explain hygiene techniques to people, Evaluate for vital sings	Evaluate
BP 20.107.4	Understand the importance of Professional History of PT, National and international bodies for PTs, council (state and central) and license for practice	Understand
BP 20.107.5	Role of physiotherapist in community as a counselor and educator to patient and family	Understand
BP 20.107.6	Apply the basic nursing care, and life saving techniques to the people	Apply

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Course Outcomes

Course Name: Advanced Organic Chemistry Laboratory -III

Course Code: CH 681

Year: Academic Year: 2019-20

Semester: Autumn

Faculty Name: Dr. Sarita Khaturia

At the end of the course, students will be able to

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH 681.1	Learn structure elucidation	Understand
CH 681.2	Understand characterization by UV-Visible Spectroscopy	Create
CH 681.3	Characterization by IR Spectroscopy	Design
CH 681.4	Analyze structure by NMR Spectroscopy	Analyze
CH 681.5	Structure characterization by Mass Spectroscopy	Apply
CH 681.6	Remember the terms and steps involved in separation of aminoacids by paper chromatography	Remember

Sarita 12/11/19

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Course Outcomes

Course Name: Medicinal Chemistry

Course Code: CH 642

Year: M.Sc. II year 2019-20

Semester: IV Spring

Faculty Name: Dr. Sarita Khaturia

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH 642.1	Analyze the different stages and different techniques of drug discovery.	Analyze
CH 642.2	Understand the role of medicinal chemistry in drug research and basic principles of medicinal chemistry.	Understand
CH 642.3	Explain brief concept of SAR and various strategies to design and develop new drug like molecules for biological targets.	Explain
CH 642.4	Apply and explain drug receptor interactions in receptor site theory and combinatorial synthesis and in approaches to drug design.	Apply
CH 642.5	Remember the structure, uses and side effect of drugs acting as antibiotics, anti bacterials and anti malarial drugs.	Remember
CH 642.6	Describe the drugs acting as NSAID, antihistaminic, anti asthmatic, antiviral and anti neoplastic agents.	Describe

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Course Outcomes

Course Name: Environmental and Green Chemistry

Course Code: CH 651

Year: M.Sc. II year 2019-20

Semester: III

Faculty Name: Dr. Sarita Khaturia

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH 651.1	Complexation in natural water and waste-water, Micro-organism in aquatic chemical reactions, Eutrophication, Re-cycle of waste-water in process industry	Analyze
CH 651.2	Understand Soil formations, soil properties (physical/chemical), inorganic and organic components in soil, acid-base and ion-exchange reactions in soil, micro and macro nutrients, nitrogen pathways and NPK in soil.	Understand
CH 651.3	The role of chemicals in ozone destruction, The green-house effect and Global warming, El-Nino phenomenon.	Explain
CH 651.4	Treatment of sewage and reuse of water in industry and agriculture, Microbiology mediated redox reactions and Nitrogen transformation by bacteria	Apply
CH 651.5	Remember the Toxic chemicals in the environments, Impact of toxic chemicals on enzymes, Biochemical effects of arsenic, cadmium, lead, mercury, carbon monooxide, nitrogen oxides, sulphur oxides, ozone, PAN, cyanide, pesticides, insecticides and carcinogens	Remember
CH 651.6	Green reagent-dimethyl carbonate and other polymer supported reagents, green catalysts-acid catalyst, basic catalysts, oxidation catalysts, polymer supported catalysts, photocatalyst, green synthesis.	Evaluate

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Course Outcomes

Course Name: Advanced Organic Chemistry Laboratory -I

Course Code: CH 661

Year: Academic Year: 2019-20

Semester: Autumn

Faculty Name: Dr. Sarita Khaturia

At the end of the course, students will be able to

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH 661.1	Learn structure elucidation	Understand
CH 661.2	Develop step wise synthesis of Benzophenone - Benzpinacol - Benzpinacolone	Create
CH 661.3	Recognize the components of a mixture of three organic compounds (three solids or two liquids and one solid or two solids and one liquid)	Evaluate
CH 661.4	Analyze Beckmann rearrangement : Benzanilide from benzene Benzene - Benzophenone - Benzphenone oxime - Benzanilide	Analyze
CH 661.5	Examine Skraup and Fisher Indole synthesis	Apply
CH 661.6	Remember the multi steps involved in synthesis of heterocyclic compounds	Remember

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Course Outcomes

Course Name: Separation Techniques and Data Analysis

Course Code: CH 641

Year: M.Sc. II year 2019-20

Semester: III

Faculty Name: Dr. Sarita Khaturia

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH 641.1	Analysis of Data, Types of errors, propagation of errors, accuracy and precision, and least-square analysis, average standard deviation.	Analyze
CH 641.2	Understand the adsorption and partition chromatography its Definition of terms, techniques and chemical concepts, Column adsorption chromatography, Partition chromatography-column, paper and TLC. Describe the High performance liquid chromatography itsIntroduction, choice of the system, instrumentation and applications.	Understand
CH 641.3	Gas liquid chromatography: Introduction, choice of the system, instrumentation, qualitative and quantitative analysis of mixtures. Gel permeation/size exclusion chromatography, its Introduction, theory and applications.	Explain
CH 641.4	Solvent Extraction: - Introduction, principles, factors that influence solvent extraction, ion association complexes and applications of solvent extraction.	Apply
CH 641.5	Remember the Ion exchangers its theory, action of ion-exchange resins, ion exchange chromatography, exchange capacity, ion-exchange resins and liquid ion-exchange resins, applications of cation and anion ion exchangers.	Remember
CH 641.6	Evaluate Mean, mode, median and significant numbers.	Evaluate

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Course Outcomes

Course Name: Chemistry of Natural Products

Course Code: CH 632

Year: M.Sc. II year 2019-20

Semester: IV Spring

Faculty Name: Dr. Sarita Khaturia

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH 632.1	Understand the Classification, nomenclature, occurrence, isolation, general methods of structure determination, isoprene rule for following representative molecules: Citral, Gereniol, α-Terpeneol, Menthol, Farnesol,	Understand
CH 632.2	Explain the nomenclature, biogenesis and general methods of structure determination. Isolation and synthesis of Apigenin, Luteolin, Quercetin, Myrcetin, Quercetin-3-glucoside, Vitexin, Diadzein, Butein,	Explain
CH 632.3	Discuss some of the key features of Zingiberene, Santonin, Phytol, Abietic acid and β-Carotene, Quinine and Morphine.	Discuss
CH 632.4	Remember the classification based on nitrogen heterocyclic ring, role of alkaloids in plants. Structure, stereochemistry, synthesis and biosynthesis of the following: Ephedrine, (+)- Coniine, Nicotine, Atropine	Remember
CH 632.5	Structure determination and synthesis of Cholesterol, Bile acids, Androsterone, Testosterone, Estrone, Progestrone, Aldosterone, Biosynthesis of Steroids.	Describe
CH 632.6	Describe the synthesis and applications of Aureusin, Cyanidin-7-arabinoside, Cyanidine, Hirsutidin, Haemoglobin and Chlorophyll	Apply

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Course Outcomes

Course Name: Heterocyclic Chemistry

Course Code: CH 622

Year: M.Sc. II year 2019-20

Semester: IV Spring

Faculty Name: Dr. Sarita Khaturia

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH 622.1	Understand the nomenclature and classification of heterocyclic compounds.	Understand
CH 622.2	Explain the heterocyclic chemistry which includes various methods for ring synthesis and application of those methods for the preparation of specific groups of heterocyclic systems.	Explain
CH 622.3	Discuss some of the key applications of various heterocyclic compounds in diverse fields.	Discuss
CH 622.4	Remember a concise introduction of the most important heterocyclic systems three, four, five, and six-membered heterocyclic systems as well as fused heterocyclic systems.	Remember
CH 622.5	Describe the methods of preparation of six membered heterocycles with one or two heteroatoms.	Describe
CH 622.6	Describe the applications of heterocyclic compounds in diverse areas such as in medical dyes, photosensitizers, coordination compounds and in polymeric materials	Describe

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Course Outcomes

Course Name: **Organic Chemistry-V**

Course Code: CH 391

Year: B.Sc. III year 2019-20

Semester: V

Faculty Name: Dr. Sarita Khaturia

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH 391.1	Analyze Proton magnetic resonance (^{1}H-NMR) spectroscopy, nuclear shielding and deshielding, chemical shift and molecular structure, spin-spin splitting and coupling constants, areas of signals.	Analyze
CH 391.2	Understand the Molecular orbital picture and aromatic characteristics of pyrrole, furan, thiophene and pyridine. Methods of synthesis and chemical reactions with particular emphasis on the mechanism of electrophilic substitution. Mechanism of nucleophilic substitution reactions in pyridine derivatives. Comparison in basicity of pyridine, piperidine and pyrrole. Introduction to condensed five and six-membered heterocycles. Preparation and reactions of indole, quinoline and isoquinoline with special reference to Fisher indole synthesis, Skraup synthesis and Bischler-Napieralski synthesis, Mechanism of electrophilic substitution reactions of indole, quinoline and isoquinoline.	Understand
CH 391.3	Explain Organosulphur Compounds their Nomenclature, structural features. Methods of formation and chemical	Explain

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	reactions of thiols, thioethers, sulphonic acids, sulphonamides and sulphaguanidine.	
CH 391.4	Evaluate PMR spectra of simple organic molecules such as ethyl bromide, ethanol, acetaldehyde, 1,1, 2-tribromoethane, ethyl acetate, toluene and acetophenone. Problems pertaining to the structure elucidation of simple organic compounds using UV, IR and PMR spectroscopic techniques.	Evaluate
CH 391.5	Remember organomagnesium Compounds: the Grignard reagents-formation, structure and chemical reactions. Organozinc compounds: formation and chemical reactions. Organolithium compounds: formation and chemical reactions.	Remember
CH 391.6	Describe Organic Synthesis via Enolates: Acidity of α-hydrogens, alkylation of diethyl malonate and ethyl acetoacetate. Synthesis of ethyl acetoacetate; the Claisen condensation. Keto-enol tautomerism of ethyl acetoacetate. Alkylation of 1, 3-dithianes. Alkylation and acylation of enamines.	Describe

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Course Outcomes

Course Name: Laboratory course in Chemistry-VI

Course Code: CH 382

Year: Academic Year: 2020-21

Semester: VI Spring

Faculty Name: Dr. Sarita Khaturia

At the end of the course, students will be able to

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH 382.1	Understand handling with various chemistry glasswares and chemicals in organic chemistry laboratory.	Understand
CH 382.2	Learn and prepare various solutions used in the chemistry laboratory	Create
CH 382.3	Prepare various organic compounds and characterize them.	Create
CH 382.4	Learn separation of two organic mixture by using mild base like $NaHCO_3$	Understand
CH 382.5	Purify organic compounds through crystallization	Analyze
CH 382.6	Remember the terms and steps of preparation of new compounds like Iodoform, m-dinitrobenzene	Remember

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Course Outcomes

Course Name: Pharmaceutical Chemistry laboratory

Course Code: CH 374

Year: B.Sc. III year 2019-20

Semester: VI Spring

Faculty Name: Dr. Sarita Khaturia

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH 374.1	Understand the role of drugs in the healthcare system	Understand
CH 374.2	Perform the preparation of Aspirin	Create
CH 374.3	Remember the terms and steps of preparation of Paracetamol and characterize it	Remember
CH 374.4	Design the preparation of Hippuric acid	Create
CH 374.5	Design the preparation of Phenytoin	Create
CH 374.6	Purify all the prepared drugs through crystallization	Analyze

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Course Outcomes

Course Name: Pharmaceutical Chemistry

Course Code: CH 354

Year: B.Sc. III year 2019-20

Semester: VI Spring

Faculty Name: Dr. Sarita Khaturia

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH 354.1	Analyze the different factors affecting bioactivity, parameters used in QSAR and different techniques of drug discovery.	Analyze
CH 354.2	Understand isolation, SAR, mechanism of action of drugs, the role of pharmaceutical chemistry in drug research, and basic principles of pharmaceutical chemistry.	Understand
CH 354.3	Explain significance of drug metabolism, routes of drug administration, drug receptor interactions in receptor site theory brief concept of SAR and various strategies to design and develop new drug like molecules for biological targets.	Explain
CH 354.4	Apply various approaches to drug design in combinatorial synthesis of drug discovery.	Apply
CH 354.5	Remember the structure, uses and side effect of drugs acting as antibiotics, antibacterials and anti malarial drugs.	Remember
CH 354.6	Describe the drugs acting as NSAID, antihistaminic, antiasthmatic, antiviral and antineoplastic agents.	Describe

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Course Outcomes

Course Name: Organic Chemistry VI

Course Code: CH 324

Year: B.Sc. III year 2019-20

Semester: VI Spring

Faculty Name: Dr. Sarita Khaturia

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH 324.1	Analyze the process of polymerization, free radical, cationic and anionic and preparation, properties and applications of Bakelite, Nylon 6:6 and Polyurethanes.	Analyze
CH 324.2	Evaluate the process of epimerization on conversion of glucose into mannose	Evaluate
CH 324.3	Remember a concise introduction of soap and detergents process of manufacturing of and study of saponification value, Acid value and Iodine value. Study of estimation of protein, aminoacids and peptides.	Remember
CH 324.4	Explain the classification, nomenclature and properties of carbohydrates.	Explain
CH 324.5	Understand the structure of D-glucose and interconversion of glucose into fructose Acid value, Iodine value and estimation of protein, aminoacids and peptides.	Understand
CH 324.6	Understand classification of dyes and their preparation.	Understand

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Course Outcomes

Course Name: Inorganic Chemistry-II

Course Code: CH 282

Year: B.Sc. II year 2019-20

Semester: IV

Faculty Name: Dr. Harlal Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH 282.1	Understand the chemistry of Actinides, general features, their separation and similarities between later Lanthanides and Actinides.	Understand
CH 282.2	Remember the principle involved in extraction of elements, oxidation and reduction reaction.	Remember
CH 282.3	Analyze the redox cycle, redox stability in water, Frost, Latimer and Pourbaix diagram.	Analyze
CH 282.4	Apply the redox potential data to characterize the free energy cost	Apply
CH 282.5	Explain the Arrhenius, Bronsted-Lowry, Lux-Flood and Lewis concept of acids and bases	Create
CH 282.6	Assess physical properties of a solvent, their types, characteristics and reactions in non aqueous solvents liquid NH_3 and liquid SO_2	Evaluate

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Course Outcomes

Course Name: Physical and Inorganic Chemistry-II

Course Code: CH 182

Year: B.Sc. I year 2019-20

Semester: II

Faculty Name: Dr. Harlal Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH182.1	Understand the structure of liquids and structural difference between solid, liquid and gases. Elementary idea of nucleus, nuclear forces, mass defect, binding energy, fission and fusion.	Understand
CH182.2	Analyze various models of radioactivity: Liquid drop, shell model, GM counters, Wilson cloud chamber, isotopes, group displacement laws and radioactive steady state. Chemistry of Xenon compounds (XeF_2, XeF_4, XeF_6, $XeOF_4$, XeO_2F_2, XeO_3).	Analyze
CH182.3	Applications of some important compounds of s and p-block elements: hydrides of boron, fullerenes, carbides, silicates interhalogens and polyhalides.	Apply
CH182.4	Define space lattice, unit cell and law of crystallography. Remember the basic properties of s- and p-block elements, chemical properties of the noble gases.	Remember
CH182.5	Evaluate mass defect, binding energy, fission and fusion. Compare crystal structure of NaCl, KCl and CsCl (Laue's method and Powder method).	Evaluate
CH182.6	Explain the diagonal relationships of s- block elements. Symmetry of elements. Weak interaction:	Understand

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Course Outcomes

Course Name: Physical and Inorganic Chemistry-I

Course Code: CH 181

Year: B.Sc. I year 2019-20

Semester: I

Faculty Name: Dr. Harlal Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH 181.1	Analyze the bond strength and bond energy, percentage ionic character from dipole moment and electronegativity difference.	Analyze
CH 181.2	Apply the Valence shell electron pair repulsion (VSEPR) theory to NH_3, H_3O^+, SF_4, ClF_3, ICl_2 and H_2O, MO theory, homonuclear and heteronuclear (CO and NO) diatomic molecules	Apply
CH 181.3	Remember the Postulates of kinetic theory of gases, deviation from ideal behavior, Vander Waals equation of state. Fajan's rule. Metallic bond, free electron, valence bond and band theories.	Remember
CH 181.4	Explain the Valence bond theory and its limitations, directional and shapes of simple inorganic molecules and ions. Ionic structures, radius ratio effect and coordination number, limitation of radius ratio rule	Explain
CH 181.5	Evaluate the Schrodinger wave equation, lattice energy and Born Haber cycle, Molecular velocities: Root mean square, average and most probable velocities. Qualitative discussions of the Maxwell's distribution of molecular velocities, collision number, mean free path and collision diameter. Liquefaction of gases (based on Joule-Thomson effect).	Evaluate
CH 181.6	Understand the De Broglie matter waves, Heisenberg uncertainty principle, atomic orbitals, significance of Ψ and Ψ^2, quantum numbers, Zeeman and Stark effect, shapes of s, p and d orbitals. Aufbau and Pauli exclusion principles, Hund's multiplicity rule. Effective nuclear charge	Understand

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Course Outcomes

Course Name: **Laboratory Course in Chemistry-II**

Course Code: CH 172

Year: Academic Year: 2019-20

Semester: Spring

Faculty Name: Dr. Harlal Singh

At the end of the course, students will be able to

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH 172.1	Understand handling with various chemistry glasswares and chemicals in organic chemistry laboratory.	Understand
CH 172.2	Learn and prepare various standard solutions of different Molarity/Normality of titrants	Create
CH 172.3	Test the extra elements present in organic compounds through L.S and identification of functional groups	Evaluate
CH 172.4	Remember how to prepare various solutions and Chemicals used in the chemistry laboratory	Remember
CH 172.5	Analyze the given mixture containing two radicals including interfering acid radicals- fluoride, borate, oxalate, phosphate and excluding insoluble.	Analyze
CH 172.6	Calculate surface tension of liquids by various techniques.	Apply

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Course Outcomes

Course Name: **Laboratory Course In Chemistry-I**

Course Code: CH 171

Year: Academic Year: 2019-20

Semester: Autumn

Faculty Name: Dr. Harlal Singh

At the end of the course, students will be able to

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH 171.1	Understand handling with various chemistry glasswares and chemicals in organic chemistry laboratory.	Understand
CH 171.2	Learn and prepare various standard solutions of different Molarity/Normality of titrants	Create
CH 171.3	Explain the process of determination of viscosity	Explain
CH 171.4	Examine the extra elements present in organic compounds through L.S	Apply
CH 171.5	Analyze the given mixture containing two radicals including interfering acid radicals- fluoride, borate, oxalate, phosphate and excluding insoluble.	Analyze
CH 171.6	Process of purification of a given organic sample solid/liquid through crystallization /distillation through melting point or boiling point	Remember

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Course Outcomes

Course Name: **Laboratory Course in Chemistry-I**

Course Code: CH 571

Year: Academic Year: 2019-20

Semester: Autumn

Faculty Name: Dr. Harlal Singh

At the end of the course, students will be able to

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH 571.1	Understand handling with various chemistry glasswares and chemicals in organic chemistry laboratory.	Understand
CH 171.2	Calculate the percentage yield of synthesized compounds	Calculate
CH 171.3	Apply the basic principle behind the prediction of geometry of compounds	Apply
CH 171.4	Conclude the structure of synthesized compounds by physiochemical techniques	Evaluate
CH 171.5	Analyze the acidic and basic radicals through the process of qualitative and quantitative analysis	Analyze
CH 171.6	Process of purification of a synthesized inorganic sample by recrystallization technique	Remember

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Course Outcomes

Course Name: Inorganic Chemistry Lab-II

Course Code: CH 562

Year: M.Sc. I year 2019-20

Semester: II

Faculty Name: Dr. Harlal Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH562.1	understand handling with various chemistry glasswares and chemicals.	Understand
CH562.2	Learn and prepare various solutions used in the chemistry laboratory	Create
CH562.3	Formulate suitable methods for the preparation of desired inorganic complexes	Create
CH562.4	Purify coordination compounds through crystallization and interpret the structure of metal complexes using IR spectra	Understand
CH562.5	Students will have hands on training in developing the skills related to qualitative and quantitative inorganic analysis.	Create
CH562.6	Separation of cations and anions by analytical methods	Analyze

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Course Outcomes

Course Name: Inorganic Chemistry-II

Course Code: CH 512

Year: M.Sc. I year 2019-20

Semester: II

Faculty Name: Dr. Harlal Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH512.1	Analyze the spectra of transition metal ions, Orgel, T-S diagram	Analyze
CH512.2	Determine the terms, state, microstate, magnetic moments. EAN, 18 electron	Apply
CH512.3	Interpret the structure and bonding of metal pi complexes	Understand
CH512.4	Explain structure and bonding of metal clusters	Understand
CH512.5	Remember the metal ions takes part in biological system and their concentration effect and physiological effect on biological system	Remember
CH512.6	Classified the isopoly, heteroploy acids, boranes, carboranes	Analyze

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Course Outcomes

Course Name: Inorganic Chemistry-I

Course Code: CH 511

Year: M.Sc. I year 2019-20

Semester: I

Faculty Name: Dr. Harlal Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH 511.1	Analyze the Walsh diagrams (tri-atomic and penta-atomic molecules), dπ-pπ bond, Bent rule and energetics of hybridization. Stepwise and overall formation constants and their interaction, trends in stepwise constant,	Analyze
CH 511.2	Apply the kinetic application of valence bond and crystal field theories, kinetics of octahedral substitution, acid hydrolysis. Chelate effect, determination of binary formation constants by pH-metry and spectrophotometry	Apply
CH 511.3	Remember the some simple reactions of covalently bonded molecules. Limitation of crystal field theory, molecular orbital theory, octahedral, tetrahedral and square planar complexes, π-bonding and molecular orbital theory	Remember
CH 511.4	Explain the factors affecting the stability of metal complexes with reference to the nature of metal ion and ligand. Substitution reactions in square planar complexes, the trans effect, mechanism of the substitution reaction.	Explain
CH 511.5	Evaluate the kinetics of octahedral substitution, acid hydrolysis, conjugate base mechanism, anation reactions, and reactions without metal ligand bond cleavage.	Evaluate
CH 511.6	Understand the Redox reaction, electron transfer reactions, mechanism of one electron transfer reactions, outer sphere type reactions, cross reactions and Marcus-Hush theory, inner sphere type reactions.	Understand

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Course Outcomes

Course Name: Inorganic Chemistry-III

Course Code: CH 381

Year: B.Sc. I year 2019-20

Semester: V

Faculty Name: Dr. Harlal Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH 381.1	Describe the chemistry of HSAB Concept.	Understand
CH 381.2	Illustrate the acid base strength and hardness and softness. Calculate the CFSE values of complexes	Apply
CH 381.3	Remember the limitations of VBT. Show various shapes of d orbital and degeneracy of d-orbitals.	Remember
CH 381.4	Explain the crystal field theory and analyze magnetic properties of transition metal complexes	Analyze
CH 381.5	Explain the electronic spectra of metal complexes and generate term symbols.	Create
CH 381.6	Test for redox reaction with help of oxidation-reduction. Quality of water checked by complexometric titrations	Evaluate

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Course Outcomes

Course Name: Inorganic Chemistry-IV

Course Code: CH 314

Year: B.Sc. III year 2019-20

Semester: VI

Faculty Name: Dr. Harlal Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH 314.1	Analyze the factors affecting the thermodynamic stability of metal complexes and substitution reactions of square planar complexes.	Analyze
CH 314.2	Apply the process of homogeneous hydrogenation, mononuclear carbonyls and nature of bonding in metal carbonyls	Apply
CH 314.3	Remember the terms Nitrogen fixation, Inorganic polymers such as Silicones and Phosphazenes.	Remember
CH 314.4	Explain the classification, nomenclature and properties of organometallic compounds	Understand
CH 314.5	Assess the role of essential and trace elements to biological processes, metalloporphyrins like Haemoglobin and Myoglobin	Evaluate
CH 314.6	Relationship between formation constanst and overall stability constant. Understand the biological role of alkali and alkaline earth metal ions with special reference to Ca^{+2}	Understand

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Course Outcomes

Course Name: Functional Analysis

Course Code: MS 612

Year: M.Sc. II

Semester: Spring

Faculty Name: Dr. Krishnapal Singh Sisodia

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MS612.1	Understand the basics of topological vector spaces, finite dimensional spaces and quotient spaces with its properties	Understand
MS612.2	Understand the significance of fundamental theorems of Functional analysis	Understand
MS612.3	Apply the fundamental theorem to obtain some results	Apply
MS612.4	Understand the Normed spaces, Lp-spaces, Hilbert spaces and its properties	Understand
MS612.5	Apply the properties of Normed spaces, Hilbert spaces.	Apply
MS612.6	Evaluate Stone Weierstrass theorem and fixed point theorems	Evaluate

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Course Outcomes

Course Name: Advanced Linear Algebra

Course Code: MS 611

Year: M.A./M.Sc. II

Semester: Autumn

Faculty Name: Dr. Krishnapal Singh Sisodia

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MS611.1	Remember the Vector spaces, Subspaces, Quotient spaces, linear dependence of vectors, isomorphism and Inner product spaces	Remember
MS611.2	Understand the Linear transformation and functional, its Kernel and Range, self adjoint operators, bilinear and quadratic forms	Understand
MS611.3	Evaluate the transpose of linear transformation, linear span, basis and dimension of vector spaces	Evaluate
MS611.4	Determine the rank, nullity, matrix of linear transformation, Eigen values, Eigen vectors, matrix of unitary and orthogonal operators, matrix factorization	Apply
MS611.5	Analyse the norm of a vector, orthogonality of vectors, minimal polynomial, block matrices	Analyse
MS611.6	Create dual spaces, dual basis, bidual spaces, annihilators, Jordan canonical form	Create

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Course Outcomes

Course Name: General Topology

Course Code: MS 531

Year: M.A./M.Sc. I

Semester: Autumn

Faculty Name: Dr. Krishnapal Singh Sisodia

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MS531.1	Remember the definitions and properties of metric space, topological space, compact space, connected spaces, Housdorff space, completely regular and completely normal space	Remember
MS531.2	Understand the convergence, completeness, continuity, compactness and connectedness	Understand
MS531.3	Evaluate the weak topologies, base, sub base and components of the spaces	Evaluate
MS531.4	Evaluate the Tychonoff theorem, Baire's theorem, Urysohn's lemma and Tietze extension theorem	Evaluate
MS531.5	Determine the Weierstrass approximation theorem and Stone Weierstrass theorems	Apply
MS531.6	Analyse the Stone-cech compactification, imbedding theorems	Analyse

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Course Outcomes

Course Name: Advanced Abstract Algebra

Course Code: MS 512

Year: M.Sc. I

Semester: Spring

Faculty Name: Dr. Krishnapal Singh Sisodia

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MS512.1	Understand the fundamentals properties of abstract algebra (Groups and its various results)	Understand
MS512.2	Understand Homomorphism, Isomorphism and Automorphism with its fundamental properties	Understand
MS512.3	Apply fundamental properties to determine some important theorems of abstract algebra	Apply
MS512.4	Generate the modules of groups: rings, integral domains, Euclidean domain, polynomial rings, fields etc.	Create
MS512.5	Generate the various extensions of fields	Create
MS512.6	Determine the fundamental theorem of Galois theory	Apply

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Course Outcomes

Course Name: Vector Calculus

Course Code: MS 341

Year: B.Sc. III (Mathematics H.)

Semester: Autumn

Faculty Name: Dr. Krishnapal Singh Sisodia

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MS341.1	Remember the formulae and properties of scalar and vector products, differentiation and integration of vector functions	Remember
MS341.2	Understand the gradient, divergence and curl	Understand
MS341.3	Evaluate the angle between the vectors, flux, directional derivative and conservative field	Evaluate
MS341.4	Evaluate the line, surface and volume integrals	Evaluate
MS341.5	Determine the velocity, acceleration, surface area and volume	Apply
MS341.6	Analyse the perpendicularity and co-linearity of vectors, Green's, Stoke's and Gauss divergence theorems	Analyse

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Course Outcomes

Course Name: Linear Algebra

Course Code: MS 211

Year: B.Sc. II

Semester: Autumn

Faculty Name: Dr. Krishnapal Singh Sisodia

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MS211.1	Remember the Vector spaces, Subspaces, Quotient spaces, linear dependence of vectors and Inner product spaces	Remember
MS211.2	Understand the Linear transformation and its Kernel and Range	Understand
MS211.3	Evaluate the linear span, basis and dimension of vector spaces	Evaluate
MS211.4	Determine the rank, nullity and matrix of linear transformation	Apply
MS211.5	Analyse the norm of a vector, orthogonality of vectors	Analyse
MS211.6	Create dual spaces, dual basis, bidual spaces and annihilator	Create

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Course Outcomes

Course Name: Abstract Algebra

Course Code: MS 112

Year: B.Sc. I

Semester: Spring

Faculty Name: Dr. Krishnapal Singh Sisodia

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MS112.1	Understand the algebraic structure, groups and its various types.	Understand
MS112.2	Evaluate the subgroups, normal subgroups, normalizer of an element and centre of a group.	Evaluate
MS112.3	Evaluate some results of homomorphisms and isomorphisms	Evaluate
MS112.4	Determine the fundamental theorem of homomorphism and Cayley's theorem	Apply
MS112.5	Understand the permutations, its types and group of permutations	Understand
MS112.6	Determine the even, odd, cyclic permutations and some results	Apply

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Course Outcomes

Course Name: Gender Justice and Law

Course Code: LF 100

Year: 2019-2020

Semester: Autumn

Faculty Name: Megha Middha

CO Number	Course Outcome Statement At the completion of the course, student will be able to understand	Taxanomy Level
LF 100.1	They have understanding about the historical development of Position of women in Vedic, Post Vedic and Medieval Period	Remember
LF 100.2	They are able to know the various rights and duties as enshrined under the Constitution of India.	Understand
LF 100.3	Students have a brief idea of the various criminal laws regulating and protecting rights of women (the provisions of Cr.P.C and IPC), wherein they understand the aspects of arrest of women, rape, abduction etc.	Apply
LF 100.4	They are able to differentiate between status of women and its progress post independence.	Analyze
LF 100.5	They are able to understand and analyse rationale behind the need of Protection of woman against Domestic Violence Act,2005 and Dowry (Prohibition) Act, 1960 and the trafficking of women through the understanding of Immoral Traffic (Prevention) Act,1956	Evaluate
LF 100.6	They develop the understanding of Role of Statutory Bodies- National Commission for Women, State Commission of women, free legal aid for women, the laws relating to prevention of child marriage and Indecent Representation of Women (Prohibition) Act, 1986. Also able to create the Law assignments and projects.	Create

Megha Middha

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Course Outcomes

Course Name: Application Software Lab

Course Code: CA141

Year: 2019-20

Semester: Spring

Faculty Name: Sonal Shukla

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CA141.1	Understand Computer Basic concepts and types of software	Understand
CA141.2	Applicability of MS-Word in real world Problems like writing a paragraph, Data Sorting, Bullets Numbers Word art, Fonts etc.	Apply
CA141.3	Applicability of MS-Word like mail merge to send a common letter writing	Create
CA141.4	Implementing MS Excel formula and applying like average , Sum, filters,	Create
CA141.5	Implementing MS Excel relative addressing and Absolute addressing.	Apply
CA141.6	Design Seminar presentation	Create

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Course Outcome

Course Name: Computer Fundamentals & Information Technology
Course Code: CA 111
Credit Hours: 3
Semester, Year: Autumn, I
Branch: B.Sc.
Prerequisite: NIL

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
CA 111.1	Understand the fundamental concepts of computer and structure of computer in various generations	Remember
CA 111.2	Familiarize with various components of computer and input/ output devices	Understand
CA 111.3	Understand and implement the concept of various number systems and their arithmetic and various data coding standards	Apply
CA 111.4	Understand and classifying between the types of programming language, software and operating system	Evaluate
CA 111.5	Learn the working of computer network and web communication	Understand

Ajay Kumar

29/01/2021

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Course Outcomes

Course Name: International Economics - II

Course Code: EM 304

Year: 2019-20

Semester: Spring

Faculty Name: Dr. Surendra Rajpurohit

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
EM304.1	Understand how exchange rates, interest rates and capital movements between currencies are determined within different institutional settings for monetary policy	Understand
EM304.2	Explain how a country's current account balance is determined, or, how capital movements between countries are determined	Understand
EM304.3	Evaluate how shocks emanating abroad or in the foreign exchange market affect output, employment, inflation and interest rates	Evaluate
EM304.4	Analyze the merits of different exchange rate systems (fixed versus flexible)	Analyze
EM304.5	Analyze the effects of various macroeconomic events on the future time path of the economy	Analyze
EM304.6	Apply how current and future events may influence the exchange rate through expectations	Apply

Signature of the faculty

(Dr. Surendra Rajpurohit)

7-3-2020

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... Nation Building through Women Leadership

Course Name : Monetary Economics I
Course Code : EM 371
Year : III
Semester : V
Faculty Name : Kshitiz Jangir

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
EM 371.1	Understand the various concepts of Game theory	Understand
EM 371.2	Evaluate the concept of Nash Equilibrium, prisoner dilemma	Evaluate
EM 371.3	Understand the concept of Oligopoly	Understand
EM 371.4	Understand the various models of oligopoly	Evaluate
EM 371.5	Understand the concepts of General Equilibrium and welfare economics	Understand
EM 371.6	Evaluate Pareto optimality and Arrow's impossibility theorem	Evaluate

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Course Outcomes

Course Name: **Macro Economics III**

Course Code: EM 372

Year: III Year

Semester: VISemester

Faculty Name: Dr. Rajesh Sharma

At the end of the course, the student will be able to:

CO	CO statement	Taxonomy
EM 372.1	Describe the macroeconomic developments related to the field economic growth	Analyze
EM 372.2	Identify the role of latest macroeconomic theories in the field of macroeconomics	Evaluate
EM 372.3	Describe various growth theories and their relevance in the modern world	Understand
EM 372.4	Determine and identify the various factors responsible for the trade cycle.	Remember
EM 372.5	Determine the role of monetary and fiscal policy for solving the economic fluctuations	Apply
EM 372.6	Identify the advantages and disadvantages of various theories and policies and suggest a write policy	Create

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Dr. Rajesh Sharma

Faculty Signature

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Course Outcomes

EM 303 International Economics - I

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
EM303.1	Explain the importance of international trade and various theories related to International Trade	Understand
EM303.2	Analyze the impact of international trade on Economic Growth and overall welfare of the different stakeholders	Analyze
EM303.3	Evaluate the impact of international trade on Economic Growth and overall welfare of the different stakeholders	Evaluate
EM303.4	Apply the various theories of international trade to justify the different kinds of economic policies	Apply
EM303.5	Explain the importance of WTO and various kinds of economic integration	Understand
EM303.6	Analyze the different kinds of trade restrictions and the impact of the same on the economic welfare	Analyze

10-12-2019

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Course Outcomes

Course Name: The Bhagavad-Gita

Course Code: BG111

Year: 2019-20

Semester: Spring

Faculty Name: Dr. Rajiv Kumar Mishra

CO Number	Course Outcome statement At the completion of the course, student will be able to-	Taxonomy Level
BG111.1	Understand the nomenclature of the word Bhagavad-Gita & Background of the Mahabharat war.	Understand
BG111.2	Solve the problem related to battlefield of life.	Apply
BG111.3	Clarify the hierarchy of senses, Manas, Buddhi and Atman.	Analyze
BG111.4	Discuss the modes of Prakriti and their impact on the mind.	Understand
BG111.5	Illustrate the nature of conflict and Causal factors-Ignorance, Indriya & Mind.	Apply
BG111.6	Recommend the importance of knowledge.	Evaluate

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Course Outcomes

Course Name: Spanish I

Course Code: SL 221

Year: 2019-20

Semester: Autumn

Faculty Name: Rishi Kumar

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
SL 221.1	Will be able to write and ask about self and have knowledge of numbers and gender in Spanish language.	Remember
SL 221.2	Will be able to know and use the three types of regular verbs in Spanish and make simple sentences.	Understand
SL 221.3	Will be able to describe class, room and his surrounding and make comparative and superlative sentences.	Apply
SL 221.4	Will be able to write simple paragraphs on topics like, family.	Apply
SL 221.5	Will be able to ask and tell time and be able to talk about day-to-day activity.	Remember
SL 221.6	Will be able to describe surrounding using prepositions of place and other vocabulary.	Remember

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Course Outcomes

Course Name: Spanish II

Course Code: SL 222

Year: 2019-20

Semester: Spring

Faculty Name: Rishi Kumar

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
SL 222.1	use irregular and reflexive verbs.	Analyse
SL 222.2	list and recall nouns and adjectives related to physical description.	Remember
SL 222.3	compose an individual's description.	Create
SL 222.4	interpret and apply the likes, dislikes and self-information.	Evaluate
SL 222.5	describe, discuss and understand about Hispanic Countries	Understand
SL 222.6	compose short compositions on the given topic	Apply

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Course Outcomes

Course Name: **Japanese - I**

Course Code: **JL 221**

Year: 2019-20

Semester: Autumn

Faculty Name: Dr. Ashok Singh Rathore

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
JL 221.1	The Student will able to introduce himself and others, greet each other, understand the pronunciation and understand the origin and nature of Japanese Language	Understand
JL 221.2	The Students will able to identify the difference between 3 scripts, and understand radicals of Japanese script as well as able to read and write Hiragana script	Evaluate
JL 221.3	Student s will fluent in some Japanese Vocabulary like as Counting, Family names, birds and animals name, fruits and vegetables, colors name months name, numbers, days of the week, parts of the body	Remember
JL 221.4	Students will be able to indicate things, places, persons and places. Student can ask confirmatory questions about existence of noun	Apply
JL 221.5	Students will able to express the sentences related to the existence of living being and nonliving being at some Places and can ask questions related to existences	Create
JL 221.6	Students will able to use the particles related to the repetition of object I very next sentence, action at some place, relationship between two nouns, connectivity between two nouns and also able to use suffixes and related to Nationalities, Languages, respective way of saying some one's name, plural of many person	Analyse

11.11.2019

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Course Outcomes

Course Name: **Japanese II**

Course Code: **JL 222**

Year: 2019-20

Semester: Spring

Faculty Name: Dr. Ashok Singh Rathore

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
JL 222.1	Students are able to understand various cultural and lifestyle related phenomenon of Japan like, furin, sunddare, semi, mugicha, uchiwa, lucky charm. Takayama, Japanese bath etc.	Understand
JL 222.2	Students are able to express sentences related to quality of the noun in past and non-past tense too, two adjectives for a noun etc.	Evaluate
JL 222.3	Students are able to convert verbs in past and express sentences related to past tense, also able to use some polite forms and Particles like as 'o' 'e' 'ni'.	Apply
JL 222.4	Students able to express essential Japanese expressions for daily use and use of noun with number and "counters"	Rember
JL 222.5	Students are able to do Translation from Japanese to English and English to Japanese of basic level. Students also able to Reads lessons, poem, short dialogue useful for daily conversation	Creat
JL 222.6	Students are able to Solve short unseen passages and practice advance 'kanji' and Students ability of Listening a conversation related to daily life will enriched	Analysis

07.02.2020

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Course Outcomes

Course Name: German-I

Course Code: GL 221

Year: 2019-20

Semester: Autumn

Faculty Name: Vinay Kumar Tiwari

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
GL 221.1	Remember German Alphabet system and pronunciation of vowels and consonants, Months, Days and name of the countries in German and English, parts of the body and colors.	Remember
GL 221.2	Apply Greeting words at the opportune occasions (which greeting phrases to use at particular situation), learning the hidden patterns in the counting of German number system , Writing and speaking time in German in formal and informal ways.	Apply
GL 221.3	Understand the system of articles of (definite and indefinite articles) and Noun and their genders (masculine, feminine and neutral), Number of nouns, Introduction of regular and irregular verbs. Conjugation of regular and irregular verbs, Understand cases (nominative, accusative and dative) Nominative and Accusative sentences. Negative articles, negative sentences with 'nicht and kein',	Understand
GL 221.4	Understand Personal and possessive pronouns in Nominative, Akkusative and Dative Cases, understand interrogative pronouns and construction of interrogative sentences with the help of interrogative pronouns and the verb at the first position, Understand Separable verbs: its Pronunciation, conjugation and uses in simple & complex sentences.	Understand
GL 221.5	Apply modal verbs its conjugation and their uses in present	Apply

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	tense, Apply Present Tense in Daily use such as writing daily routine in Present Tense, Akkusative, Dative and Changeable prepositions in sentences effectively	
GL 221.6	Construct sentences about one's Introduction and others in German by using Present Tense and correcting the wrong sentences (semantically and syntactically) rewriting the sentences by changing the word order, Translation from German to English and Vice-versa.	Create

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Vinay Kumar Tiwari

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Course Outcomes

Course Name: German-II

Course Code: GL 222

Year: 2019-20

Semester: Spring

Faculty Name: Vinay Kumar Tiwari

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
GL 222.1	Create Interrogative (With the help of Interrogative Pronouns and Helping Verbs), Negative and Imperative Sentences & Composite words such as wovon, woraus, womit etc. in German,	Create
GL 222.2	Understand the Dative Case and related sentences and their importance in German language and conjugation of irregular verbs, Understand Personal, Possessive, Reflexive Pronouns and Reflexive Verbs, Understand Personal, Possessive, Reflexive Pronouns and Reflexive Verbs.	Understand
GL 222.3	Apply Accusative, Dative and Changeable Prepositions in German sentences.	Apply
GL 222.4	Understand Genitive Case and its sentence structure in respect of possessive pronouns and definite & indefinite pronouns, cracking the meaning of important words from the paragraphs.	Understand
GL 222.5	Apply Perfekt Tense in Daily use such as "What have you done on last Sunday, writing daily routine in Perfekt Sentences, and describing what have you done in your summer vacation) and use *Perfekt Tense* and its helping verbs in flawless manner	Apply
GL 222.6	Create small messages and paragraphs about general topics and translating them into German and English.	Create

Signature of the faculty

Vinay Kumar Tiwari

28/01/2020

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School of Liberal Arts & Sciences (SLAS)
Lakshmangarh (Sikar), Rajasthan 332 311, India
Ph. No.: (1573) 225001-12 • Fax: (01573) 225041
email: dean.sos@modyuniversity.ac.in • www.modyuniversity.ac.in

Course Outcome

Course Name: Letter Writing, Composition, Culture and Civilization-II
Course Code: FR 222
Credit Hours: 03
Semester, Year: Spring , 2019-2020
Branch: B.A. / B.A. (Hons.) French II Year
Prerequisite: Interest in the culture, History and Administration of France

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
FR 222.1	To apply Simple translation, applied translation.	Understand
FR 222.2	Skills and techniques in translation.	Apply
FR 222.3	Writing resume, application, Letter writing (Commercial Letters)	Evaluate
FR 222.4	Report writing (formal and informal).	Create
FR 222.5	Translation of passage from French to English and English to French.	Understand
FR 222.6	History of France (19th & 20th century).	Remember

Faculty Name: Amit Kumar Srivastava

29/01/20

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

Course Outcome

Course Name: Letter Writing, Composition, Culture and Civilization-I
Course Code: FR 221
Credit Hours: 03
Semester, Year: Autumn 2019-2020
Branch: B.A. / B.A. (Hons.) French II Year
Prerequisite: Interest in the culture, History and Administration of France

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
FR 221.1	To understand the Current important French personalities and events in France and modernity in the current context.	Understand
FR 221.2	To apply the Function of national and regional institution of France.	Apply
FR 221.3	To evaluate the culture and civilisation of France on topics like boundary and geography of France.	Evaluate
FR 221.4	Understand historical monuments, important cities, rivers of France.	Create
FR 221.5	Evaluate the different eras of French literature,	Understand
FR 221.6	Create small paragraphs, Letter writing, dialogues about day to day situations of common importance and happenings.	Remember

Signature of the faculty A Srivastava 29/01/19
Faculty Name: Amit Kumar Srivastava

29/01/2019

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Course Outcomes

Course Name: **Comprehension, Grammar and Translation-II**

Course Code: **FR 212**

Year: **First**

Semester: **Spring**

Faculty Name: **Dr. V.K. Singh**

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FR 212.1	The student will get acquainted with possessive pronouns in French.	Remember
FR 212.2	The student will learn about gender and number of adjectives.	Remember
FR 212.3	The student will learn subjunctive in French.	Understand
FR 212.4	The student will make comparative degree of various parts of speech in French.	Apply
FR 212.5	The student will know how to use past perfect and conditional in French.	Remember
FR 212.6	The student will learn the difference between the past participle and the infinitive forms.	Apply

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Course Outcomes

Course Name: **Comprehension, Grammar and Translation-I**

Course Code: **FR 211**

Year: **Second**

Semester: **Autumn**

Faculty Name: **Dr. V.K. Singh**

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FR 211.1	The student will get acquainted with the near future tense, interrogation and a couple of parts of speech.	Remember
FR 211.2	The student will learn about recent past, preposition and imperative sentences.	Remember
FR 211.3	The student will conjugate verbs in future tense and make conditional sentences.	Understand
FR 211.4	The student will gain knowledge of past tense and various types of pronoun in French.	Apply
FR 211.5	The student will know French food and business related to selling things.	Remember
FR 211.6	The student will learn the ways to form sentences in their interrogative and negative forms too.	Apply

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

Course Outcome

Course Name: Written Expression - II
Course Code: FR 122
Credit Hours: 03
Semester, Year: 2019-20
Branch: B.A. / B.A. (Hons.) French I Year
Prerequisite: Interest in the culture, history and administration of France

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
FR 122.1	Understand the regional administration of France, its old tradition and modernity in the current context.	Understand
FR 122.2	Apply their knowledge and skill in filling up an identification form and in writing a postcard in French	Apply
FR 122.3	To evaluate political, cultural and economical life styles of cities in France and Study of south-west and north-east regions of France.	Evaluate
FR 122.4	Understand the socio professional relation portraits of France.	Understand
FR 122.5	Evaluate the different eras of French literature, some of the famous writers of France and study their works.	Evaluate
FR 122.6	Create small situational dialogues about day to day situations of common importance and happenings.	Create

Srivastava 2/09/20
Faculty Name: Amit Kumar Srivastava

29/01/20

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Course Outcomes

Course Name: **Written Expression-I**

Course Code: **FR 121**

Year: First

Semester: Autumn 2019-20

Faculty Name: Mr. Amit Srivastava

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
FR 121.1	To understand the Greeting someone in formal and informal situation, Knowledge of etiquettes ,conversation ,Introducing oneself / speaking of oneself,	Understand
FR 121.2	The student will know French Introducing someone/ describing a person	Apply
FR 121.3	To evaluate the Fixing an appointment over the phone, Expressing one's agreement and disagreement.	Evaluate
FR 121.4	To Understand how to Describing about one's daily activities, Expressing one's agreement and disagreement.	Understand
FR 121.5	To create the Seeking clarification on something. Asking and giving information, Describing an action	Create
FR 121.6	To Study of monuments and different public places, Making hypotheses, Solution to problem.	Remember

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Course Outcomes

Course Name: **Grammar and Composition-II**

Course Code: **FR 112**

Year: **First**

Semester: **Spring**

Faculty Name: **Dr. V.K. Singh**

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FR 112.1	The student will get acquainted with the near future tense, interrogation and a couple of parts of speech.	Remember
FR 112.2	The student will learn about recent past, preposition and imperative sentences.	Remember
FR 112.3	The student will conjugate verbs in future tense and make conditional sentences.	Understand
FR 112.4	The student will gain knowledge of past tense and various types of pronoun in French.	Apply
FR 112.5	The student will know French food and business related to selling things.	Remember
FR 112.6	The student will learn the ways to form sentences in their interrogative and negative forms too.	Apply

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Course Outcomes

Course Name: **Grammar and Composition-I**

Course Code: **FR 111**

Year: **First**

Semester: **Autumn 19-20**

Faculty Name: **Dr. V.K. Singh**

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FR 111.1	The student will have a working knowledge of definite articles.	Remember
FR 111.2	The student will be conversant with the French verbs and their conjugation	Remember
FR 111.3	The student will be able to form questions on their own	Understand
FR 111.4	The student will have knowledge of pronouns and adjectives in French	Apply
FR 111.5	The student will have working knowledge of reflexive verbs in French	Remember
FR 111.6	The student will be conversant with the groups of French verbs rules for their conjugation	Apply

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Course Outcomes

Course Name: **French-I (Certificate of Proficiency- French)**

Course Code: **FL 221**

Year: **P.G.I / U.G. II**

Semester: **Autumn**

Faculty Name: **Dr. V.K. Singh**

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FL 221.1	The student will have learnt French words for cardinal numbers, nationalities etc.	Apply
FL 221.2	The student will have learnt French words for the days of the week, months etc.	Create
FL 221.3	The student will have learnt French ordinal numbers, terms of class/office use etc.	Apply
FL 221.4	The student will have acquired knowledge of French words for time, weather, daily routine etc.	Apply
FL 221.5	The student will know French words related to various aspects of French culture	Understand
FL 221.6	The student will have acquired knowledge of French words for various walks of life, colours, food, family, etc.	Remember

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School of Liberal Arts & Sciences

Course Outcomes

Course Name: French-II (Certificate of Proficiency- French)

Course Code: FL 222

Year: P.G.I / U.G. II & III

Semester: Spring

Faculty Name: Mr. Amit Srivastava

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FL 222.1	The student will have learnt Les articles contractés and preposition, seasons, weather and ordinal numbers and cardinal numbers.	Apply
FL 222.2	The student will have learnt the conjugation of verbs in 'ir'-ending 'finir', er –ending verb visiter in present tense in affirmative, negative and interrogative form.	Create
FL 222.3	The student will learn about daily life conversation in different situations.	Apply
FL 222.4	The student will learn about Conjugation of regular and irregular verbs : acheter , chanter, choisir , grandir, aller, dire etc Introduction of imparfait, future proche, passé récent, future simple.	Apply
FL 222.5	The student will learn about Demonstrative adjective and the description of a classroom dialogue and dictation.	Understand

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FL 222.6	The student will learn the formation of verbs in (affirmative, negative and interrogative). Possessive adjectives , family description. France: Regions, famous monuments, gastronomy and beverages.	Remember

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Course Outcomes

Course Name: Programing Lab in C++

Course Code: FS 333

Year: 2020-21

Semester: Spring

Faculty Name: Dr. Rishi Kumar Pandey

CO Number	Course Outcome statement At the completion of the course, student will be able to…	Taxonomy Level
FS 333.1	Understand the types and Declaration and Pointers, Arrays, Structures, Expression, Statement, Function, Classes, Derived, Classes	Remember
FS 333.2	Explain the properties related to Pointers, Arrays, Structures, Expression, Statement, Function, Classes, Derived, Classes.	Understand
FS 333.3	Solve the problems related Pointers, Arrays, Structures, Expression, Statement, Function, Classes, Derived, Classes.	Apply
FS 333.4	Analyse the problem related to Pointers, Arrays, Structures, Expression, Statement, Function, Classes, Derived, Classes.	Analyse
FS 333.5	Compare all the aspects of the Pointers, Arrays, Structures, Expression, Statement, Function, Classes, Derived, Classes.	Evaluate
FS 333.6	May integrate the fundamentals as Pointers, Arrays, Structures, Expression, Statement, Function, Classes, Derived, Classes.	Create

07/09/22

Dr. Rishi Kumar Pandey

Signature of the faculty

29/01/2022

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Course Outcomes

Course Name: Ancient Indian Science

Course Code: PH641

Year: II

Semester: III

Faculty Name: Dr Manoj Mishra

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PH641-1	**Reference of Science in Vedas**	Remember
PH641-2	**SAGE Scientists and Their Achievements:** Baudhayan, Aryabhatta,Brahmgupta, Bhaskaracharya , varahamihira, Mahaviracharya, Acharya Kanad, Varahamihira, Nagarjuna, Acharya Bhardwaj, SusrutaAtreya, Acharya Charak, Patanjali. **Scientists of modern era:** C. V. Raman (1888-1970), S. Ramanujan (1887-1920), J. C. Bose (1858-1937), H. J. Bhabha (1909-1966), V. A. Sarabhai (1919-1970), H. G. Khorana (1922-2011), Harish Chandra (1923 - 1983), S. N. Bose (1894 - 1974)), S. S. Bhatnagar (1894 –1955), Visvesvaraya (1860 –1962)[, MeghnadSaha (1893–1956) etc.	Remember
PH641-3	**Discoveries in Astronomy and Physics of Ancient India:** Earth's rotation, Gravity, Speed of light, Lunar Eclipse, Planetary motion, Mechanics, Matter, Magnetism and Optics	Understand
PH641-4	**Vedic Mathematics:** Algebra & Arithmetic, Geometry, Trigonometry	Understand
PH641-5	**Chemical and Biological advancement of Ancient India:** Chemistry (Distillation, Caustic Alkali, Cell and Explosives), Metallurgy (Crucible, Furnaces, Air Blowers, Metal Powder, Binder), Botany, Medicine and Pharmacology.	Understand

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Course Outcomes

Course Name: **Instrumentation and Characterization Techniques**

Course Code: PH622

Year: II

Semester: IV

Faculty Name: Dr. Manoj Mishra

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PH622-1	Understanding the physics and instrumentation of various imaging techniques used in sample analysis by optical microscopy,	Understand
PH622-2	Application of above instrument in sample analysis.	Apply
PH622-3	Understanding the physics and instrumentation of various imaging techniques used in sample analysis by scanning electron microscopy, transmission electron microscopy, scanning tunneling microscopy, atomic force microscopy.	Understand
PH622-4	Application of above instrument in sample analysis.	Apply
PH622-5	Understanding the physics and instrumentation of various methods for Qualitative and Quantitative analysis (X-Rays powder diffraction, Thermal analysis methods, Spectroscopic techniques, ESR and NMR).	Understand
PH622-6	Application of above instrument in sample analysis.	Apply

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Course Outcomes

Course Name: Digital Electronics

Course Code: PH621

Year: II

Semester: III

Faculty Name: Dr Manoj Mishra

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PH641-1	**Binary Number System:** Binary number system and other codes, binary arithmetic series and parallel processing of bites, logic of the addition operation, logic fundamentals, Boolean theorems, synthesis of Boolean functions, Karnaugh diagram.	Remember
PH641-2	**Basics of Digital Electronics:** Basics and derived gates: OR gate, AND gate, NOT gate, NAND gate, NOR gate, XOR gate, Boolean identities and logic circuits using gates, Boolean algebra- DeMorgans Theorems, Sum of products and product of sums expressions, Minterm, Maxterm, SOP and POS from truth tables.	Understand
PH641-3	**Combinational and Sequential Circuits:** Parity checker and generator, Half adders, full adders, Binary adders, decoders, multiplexer, demultiplexer, encoders, ROM and applications,	Understand
PH641-4	Digital comparator, Flip-Flops- RS, JK, master slave JK, T-type and D-type flip flops, Shift-register and applications, Asynchronous counters and applications, A/D and D/A converters; Microprocessor and microcontroller basics.	Understand
PH641-5	**Digital Circuits with MOS:** MOSFET, MOS invertors- static inverter, dynamic inverter, two phase inverter, MOS NAND gates, NOR gates, complementary MOSFET technology, CMOS inverter, CMOS NOR gates and NAND gates, MOS shift register and RAM.	Understand

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Course Outcomes

Course Name: Programming Language Laboratory

Course Code: PH571

Year: I

Semester: I

Faculty Name: Dr. Manoj Mishra

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PH571.1	WAP on basic structures of Matlab	Remember
PH571.2	WAP on decision making if...else and switch..case	Understand
PH571.3	WAP on plots and related structures	Understand
PH571.4	WAP on Solving roots and curve fitting	Understand
PH571.5	WAP on linear equations and integrations	Understand
PH571.6	WAP on solving differential equations and its application in Chua circuit and SHO.	Apply

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Course Outcomes

Course Name: **General Physics and Optics Laboratory**

Course Code: **PH561**

Year: I

Semester: I

Faculty Name: Dr. Manoj Mishra

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PH561.1	Formula used of experiment (Exp 1 – Exp 8)	Remember
PH561.2	Apparatus required and theory of experiment (Exp 1 – Exp 8)	Understand
PH561.3	Circuit formation and taking observation of experiment (Exp 1 – Exp 8)	Apply
PH561.4	Calculations of experiment (Exp 1 – Exp 8)	Analyze
PH561.5	Result of experiment (Exp 1 – Exp 8)	Evaluate
PH561.6	precautions of experiment (Exp 1 – Exp 8)	Apply

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List of experiments

Exp	Objective
1	Michelson Interferometer https://vlab.amrita.edu/?sub=1&brch=189&sim=1106&cnt=1
2	Frank-Heartz experiments https://vlab.amrita.edu/index.php?sub=1&brch=195&sim=355&cnt=1
3	Photoelectric effect https://vlab.amrita.edu/index.php?sub=1&brch=195&sim=840&cnt=1
4	Planks constant https://vlab.amrita.edu/index.php?sub=1&brch=195&sim=547&cnt=4
5	Millikan's oil drop experiment https://vlab.amrita.edu/index.php?sub=1&brch=195&sim=357&cnt=1
6	Hall effect experiment:- Determination of charge carrier density https://vlab.amrita.edu/index.php?sub=1&brch=282&sim=879&cnt=1
7.	B-H Curve https://vlab.amrita.edu/index.php?sub=1&brch=282&sim=1507&cnt=1
8.	Resistivity by Four Probe Method https://vlab.amrita.edu/index.php?sub=1&brch=282&sim=1512&cnt=1

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Course Outcomes

Course Name: Computational Physics Laboratory

Course Code: PH562

Year: I

Semester: II

Faculty Name: Dr. Manoj Mishra

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PH562.1	Theory of numerical methods for the programs (1-5)	Understand
PH562.2	Write the program on the basis of theory (1-5)	Apply
PH562.3	Solve the various problems using programs (1-5)	Evaluate
PH562.4	Theory of numerical methods for the programs (6-9)	Understand
PH562.5	Write the program on the basis of theory (6-9)	Apply
PH562.6	Solve the various problems using programs (6-9)	Evaluate

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Course Outcomes

Course Name: **Computational Physics**

Course Code: **PH 542**

Year: II

Semester: IV

Faculty Name: Dr. Manoj Mishra

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PH452-1	Understanding methods of Errors analysis and curve fittings of numerical and discrete data.	Understand
PH452-2	Understanding methods of the Numerical solution of algebraic and transcendental equations: Understanding methods of the Numerical solution of Linear systems of equations.	Understand
PH452-3	Understanding methods of Interpolation of discreet data.	Understand
PH452-4	Understanding methods of numerical differentiation and integration of discreet data.	Understand
PH452-5	Understanding methods of numerical solutions of Ordinary differential equations of discreet data. Understanding methods of numerical solutions of Partial differential equations of discreet data.	Understand
PH452-6	Application of previous methods in data analysis	Apply

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Course Outcomes

Course Name: Quantum Mechanics

Course Code: PH541

Year: 2019-2020

Semester: I

Faculty Name: Dr. Manoj Mishra

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PH541.1	To understand the origin of Quantum mechanics and its developments. Construction of quantum mechanical operators for other dynamical variables from those of position and momentum.	Understand
PH541.2	To study eigen values and eigen vectors and their applications of different operators. The fundamental expansion postulate, representation of state vector and operators.	Apply
PH541.3	To analysis the solution of Schrodinger equation for simple problems and harmonic oscillator problem by operator method. Separation of Schrodinger equation in radial and angular parts, solution of radial equation for hydrogen atom, 3-d square well potential, parity of wave function, parity operator.	Analysis
PH541.4	To evaluate generalized angular momentum, raising and lowering operators, matrices for J_2, J_x, J_y, J_z operators, Pauli spin matrices.	Evaluate

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Course Outcomes

Course Name: **Condensed Matter Physics**

Course Code: PH532

Year: I

Semester: II

Faculty Name: Dr. Manoj Mishra

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PH532-1	**Elastic Constants:** Binding in solids; Stress components, stiffness constant, elastic constants, elastic waves in crystals.	Remember
PH532-2	**Lattice Dynamics and Thermal Properties:** Rigorous treatment of lattice vibrations, normal modes; Density of states, thermodynamic properties of crystal, anharmonic effects, thermal expansion.	Understand
PH532-3	**Energy Band Theory:** Electrons in a periodic potential: Bloch theorem, Nearly free electron model; tight binding method; Semiconductor Crystals, Band theory of pure and doped semiconductors; elementary idea of semiconductor superlattices.	Apply
PH532-4	**Transport Theory:** Electronic transport from classical kinetic theory; Introduction to Boltzmann transport equation; electrical and thermal conductivity of metals; thermoelectric effects; Hall effect and magnetoresistance.	Apply
PH532-5	**Dielectric Properties of Materials:** Polarization mechanisms, Dielectric function from oscillator strength, Clausius-Mosotti relation; piezo, pyro- and ferro-electricity.	Understand
PH532-6	**Liquid Crystals:** Thermotropic liquid crystals, Lyotropic liquid crystals, long range order and order parameter, Various phases of liquid crystals, Effects of electric and magnetic field and applications, Physics of liquid crystal devices.	Apply

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Course Outcomes

Course Name: **Classical Electrodynamics and Plasma Physics**

Course Code: PH531

Year: I

Semester: I

Faculty Name: Dr. M Mishra

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PH531-1	**Electrostatics:** Electric potential, Poisson and Laplace's equations. Boundary value problems, Uniqueness theorems, Green"stheorem.Method of images, Method of separation of variables (Cartesian Coordinates, Spherical and Cylindrical Coordinates), Multipole expansion.	Remember
PH531-2	**Electromagnetic Waves:** Maxwell's equations, Boundary conditions, Wave equation and its complex notation, Electromagnetic waves in vacuum, Electromagnetic waves in non-conducting and linear media, Electromagnetic waves in linear conducting media. Poynting theorem, Reflection, refraction and polarization of electromagnetic waves,	Understand
PH531-3	**Waveguides and Cavities:** Metallic boundary conditions, Electromagnetic waves confined to hallow metallic pipe, TE, TM and TEM modes, TE and TM modes in rectangular waveguides, Bessel's function, TE and TM modes in cylindrical waveguides, Dielectric waveguides, TE and TM modes in rectangular and cylindrical Resonant cavities.	Apply
PH531-4	**Potential, Fields and Radiations:** Scalar and vector potentials, Gauge transformation, Coulomb and Lorentz gauge, Retarded potential, Lienard-Wiechert potentials, Fields due to moving charge, Power radiated by an accelerated charge and angular distribution, Bremstrahlung Cerenkov and Synchrotron radiations.	Understand
PH531-5	**Relativistic Electrodynamics:** Four vectors, Lorentz transformation in terms of Four vectors, Lorentz transformation matrix, Transformation of electromagnetic fields, Field Tensor, Dual field strength tensor, Maxwell's equations in terms of strength tensors,	Understand
PH531-6	**Plasma Physics:** Elementary Concepts: Plasma Oscillations, Debye Shielding, Plasma Parameters, Magnetoplasma, Plasma Confinement, Motion of charged particles in electric and magnetic fields, Adiabatic Invariants Wave in Plasma: Polarisation, Phase Velocity, Group Velocity, Cut-offs, Resonance for Electromagnetic Wave Propagating Parallel and Perpendicular to the Magnetic Field Propagation at Finite Angle.	Apply

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Course Outcomes

Course Name: Computational Physics Laboratory

Course Code: PH353

Year: III

Semester: V

Faculty Name: Dr. Manoj Mishra

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PH571.1	WAP on basic structures of Matlab and Plots	Remember
PH571.2	WAP on decision making if...else and switch..case and uise of script files	Understand
PH571.3	WAP on Solving roots, curve fitting, linear equations, integrations, differential equations	Apply
PH571.4	Writing basic structure of article and book in Latex	Remember
PH571.5	Use of tables, figures and mathematical equations in Latex	Understand
PH571.6	Use of bibliography and presentation in Latex	Apply

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Course Outcomes

Course Name: **Computational Physics**

Course Code: PH343

Year: III

Semester: V

Faculty Name: Dr. Manoj Mishra

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PH343-1	**Introduction to MATLAB Programming:** Basics of MATLAB programming, Array operations in MATLAB, Loops and execution control, Working with files: Scripts and Functions, Plotting and program output	Understand
PH343-2	**Application of Matlab in solving problems of Physics:** Matrix operations, Numerical Differentiation and Integration, Linear Equations, Regression and Interpolation, Ordinary Differential Equations (ODE).	Apply
PH343-3	**Scientific word processing: Introduction to LaTeX:** TeX/LaTeX word processor, preparing a basic LaTeX file, Document classes, Preparing an input file for LaTeX, Compiling LaTeX File, LaTeX tags for creating different environments, Defining LaTeX commands and environments, Changing the type style, Symbols from other languages.	Remember
PH343-4	**Equation representation:** Formulae and equations, Figures and other floating bodies, Lining in columns- Tabbing and tabular environment, Generating table of contents, bibliography and citation, List making environments, Fonts, Picture environment and colors, errors.	Understand
PH343-5	Apply CO 3&4 for writing thesis and article.	Apply

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Course Outcomes

Course Name: **Physics Laboratory V**

Course Code: **PH 332**

Year: III

Semester: V

Faculty Name: Dr. Manoj Mishra

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PH332-1	Formula used of experiment (Exp 1 – Exp 8)	Remember
PH332-2	Apparatus required and theory of experiment (Exp 1 – Exp 8)	Understand
PH332-3	Circuit formation and taking observation of experiment (Exp 1 – Exp 8)	Apply
PH332-4	Calculations of experiment (Exp 1 – Exp 8)	Analyze
PH332-5	Result of experiment (Exp 1 – Exp 8)	Evaluate
PH332-6	precautions of experiment (Exp 1 – Exp 8)	Apply

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List of experiments

Exp	Objective
Exp. 1	To show that the impedance of a coil of resistance R_L and self inductance L varies with frequency as $Z_{coil} = (R_L^2 + 4\pi^2 f^2 L^2)^{1/2}$ and to measure the self inductance.
Exp. 2	To study the LDR (Opto Electronics Device) characteristics.
Exp. 3	To study the Light Emitting Diode LED (Opto Electronics Device) characteristics.
Exp. 4	To study the Photo Transistor (Opto Electronics Device) characteristics.
Exp. 5	To study of material constant, temperaturecoefficient of current and planck's constant.
Exp. 6	To study the Photo Diode (Opto Electronics Device) characteristics
Exp. 7	To determine the temperature coefficient of resistance of copper wire
Exp. 8	To Determine unknown Capacitance using De Sauty's bridge bridge

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Course Outcomes

Course Name: Solid State Physics and Devices

Course Code: PH312

Year: III

Semester: VI

Faculty Name: Dr. Manoj Mishra

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PH312-1	Understand the basis terminology required for crystal: Crystal structure, periodicity, lattices and bases, fundamental translational vectors, unit cell, Wigner-Seitz cell, allowed rotations lattice types, lattice planes, Bravais lattices, Miller indices for direction and planes, Use and application of X-ray in solid state physics : Lau theory of X-ray diffraction, X-ray diffraction, Bragg's law	Understand
PH312-2	Understand formation of Crystal and associate energy: Bonding: Potential between a pair of atoms, Lennard Jones potential, concept of cohesive energy, covalent, Van der Waals, ionic and metallic Crystals. Understand reciprocal lattice, and Brillouin Zones	Understand
PH312-3	Study some Common crystal structures (NaCl, CsCl, ZnS and Diamond) to compare basic terminology, Numerical problems to know typical values of various parameters. Numerical problems to know typical values of various parameters.	Apply
PH312-4	Understand the thermal property and associated theories of it: (Thermal properties: lattice vibrations, Vibrational modes of continuous medium, Debye's model: lattice specific heat, Vibrations of one-dimensional monoatomic and diatomic chain, Phonons, Density of states.) Understand the **Electronic Properties of solids:** (Free electron gas, Electrons in periodic potential, Kronig Penny model, Bloch theorem, energy bands, metals, insulators and semiconductors, Motion of electron in electric and magnetic fields)	Understand
PH312-5	Numerical problems to know typical values of various parameters.	Apply

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PH312-6	**Understanding the physics of some Solid State Devices:** Hall Effect, Fermi surface, Temperature dependence on electron and holes, Shotkey and metal oxide devices. **Understand the Magnetic Properties of materials:** (Magnetic moment, magnetic susceptibility, Dia-, Para and Ferromagnetism, Ferromagnetic ferromagnetic domains)	Understand

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Course Outcomes

Course Name: **Semiconductor Physics and Electronics**

Course Code: **PH211**

Year: II

Semester: III

Faculty Name: Dr. Manoj Mishra

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PH211-1	**Semiconductor Physics:** Intrinsic and extrinsic semiconductors, P-N junction diode, Diode equation, depletion width and potential barrier, junction capacitance, I-V characteristics, Rectifier, ripple factors, filter circuits, efficiency and percentage regulation, LED, photodiode.	Remember
PH211-2	**Electronics :** Transistor circuits, Input, Output characteristics and CB and CE modes, DC load line, operating point, biasing and bias-stabilization circuits: Transistor as an amplifier (CE mode) and frequency response.	Apply
PH211-3	**Hybrid parameter:** Analysis of transistor amplifier (with and without load) using h- parameters, simplified hybrid model, brief idea about hybrid model Single stage amplifier in CE,CB and CC modes. RC coupled CE amplifier and its frequency response, tuned voltage amplifier. Power amplifier classification, distortion and efficiency, push pull amplifier	Understand
PH211-4	**Feedback in amplifiers:** Positive and negative feedback, effect of negative feedback on the characteristics of different types of amplifiers, voltage and current series feedback circuits. Field effect transistors, I-V Characteristics of JFET and MOSFET, FET biasing, FET as an amplifier.	Apply
PH211-5	**Digital Electronics:** Diode and transistor equivalent circuits of basic and derived gates, Universal gates, X-OR and equivalence. Simplification of Boolean expressions using K- maps. Sequential circuits, Flip flops.	Understand
PH211-6		

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Course Outcomes

Course Name: **Physics Laboratory II**

Course Code: **PH142**

Year: I

Semester: II

Faculty Name: Dr. Manoj Mishra

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PH211-1	Formula used of experiment (Exp 1 – Exp 8)	Remember
PH211-2	Apparatus required and theory of experiment (Exp 1 – Exp 8)	Understand
PH211-3	Circuit formation and taking observation of experiment (Exp 1 – Exp 8)	Apply
PH211-4	Calculations of experiment (Exp 1 – Exp 8)	Analyze
PH211-5	Result of experiment (Exp 1 – Exp 8)	Evaluate
PH211-6	precautions of experiment (Exp 1 – Exp 8)	Apply

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Course Outcomes

Course Name: **Concepts of Physics in FS**

Course Code: FS102

Year: I

Semester: II

Faculty Name: Dr. Manoj Mishra

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FS102.1	**Motion:** Definition of motion, position and displacement, average velocity, average speed, acceleration, acceleration of freely falling body, projectile motion, uniform circular motion, relative motion in one dimension and two dimension.	Understand
FS102.2	**Force:** Newtonian mechanics, Newton's Ist law, force, mass, Newton's II law, Newton's III law, friction, properties of friction, drag force and terminal speed.	Understand
FS102.3	**Kinetic Energy and Work:** Energy, kinetic energy, work, work done by gravitational force, work done by spring force, power, work and potential energy, work done on system by external force, conservation of energy.	Apply
FS102.4	**Rotation:** The rotational variable, rotation with constant angular acceleration, relating linear and angular variables, kinetic energy of rotation.	Understand
FS102.5	**Gravitation:** Newton's law of gravitation, gravitation near earth's surface, gravitation inside the earth.	Understand
FS102.6	**Waves:** Types of waves, transverse and longitudinal waves, wavelength and frequency, speed of traveling wave, the wave equation, sound waves, speed of sound, intensity and sound level, the Doppler effect, shock waves.	Understand

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Course Outcomes

Course Name: Basics of Forensic Science

Course Code: BT 182

Year: I 2019-20

Semester: II

Faculty Name: Ms. Barkha Yadav

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BT182.1	Learn the principles of Forensic Science.	Understand, Remember
BT182.2	Understand how types of injuries can tell about the weapon used to cause it and also its medicolegal aspects.	Understand
BT182.3	Gather knowledge about explosives and different parts of firearm.	Understand
BT182.4	Understand fundamental principles of fingerprinting and classification of fingerprints.	Understand
BT182.5	Learn development fingerprint for personal identification.	Understand, Apply
BT182.6	Gather knowledge about DNA fingerprinting and its applications.	Understand
BT182.7	Learn about cybercrime and cyber security.	Understand

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Course Outcomes

Course Name: SENSITIVE SCIENCES

Course Code: BT262

Year: Second 2019-20

Semester: Four

Faculty Name: Mr. Ulhas Gondhali

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BT262.1	Learn origin and history of fingerprint	Remember
BT262.2	Understand the principles of fingerprinting and significance in criminal investigation	Understand
BT262.3	Learn and identify types of fingerprints and fingerprints characteristics	Apply
BT262.4	Learn to Collect, lift and preserve fingerprints	Apply
BT262.5	Learn classification of fingerprints	Apply
BT262.6	Comprehend various physical and chemical fingerprint development techniques	Apply
BT262.7	Learn photography of fingerprints and presentation of fingerprints in court	Apply
BT262.8	Learn history and development and understand working of AFIS	Remember
BT262.9	Comprehend biometric classification systems and biometric traits	Understand

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Course Outcomes

Course Name: FINGERPRINTING and FORENSIC PHOTOGRAPHY

Course Code: FS 601

Year: Second 2019-20

Semester: Third

Faculty Name: Mr. Ulhas Gondhali

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FS601.1	Understand working of camera, its parts and photographic techniques	Understand
FS601.2	Develop film negatives and photographic linkage	Analyze
FS601.3	Understand the principles of fingerprinting, significance in criminal investigation and classification	Understand
FS601.4	Classify fingerprint impression using various methods of classification	Apply
FS601.5	Understand working of AFIS and its functions	Understand
FS601.6	Develop fingerprints with physical and chemical developmental techniques	Analyze

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Course Outcomes

Course Name: Criminal Law-IPC/CrPC/IEA

Course Code: FS 131

Year: First 2019-20

Semester: First

Faculty Name: Mr. Ulhas Gondhali

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FS131.1	Learn functioning of Judicial system	Understand
FS131.2	Understand IPC and sec. on crime against human and its punishments	Understand
FS131.3	Understand IPC and sec. on crime against property and its punishments	Understand
FS131.4	Understand CrPC and sec. understand police powers and related sec.	Understand
FS131.5	Understand CrPC and sec. understand court powers and related sec.	Understand
FS131.6	Understand IEA and various sec. on admissibility of evidence in court	Understand

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Course Outcomes

Course Name: Crime Scene Investigation

Course Code: FS 132

Year: First 2019-20

Semester: Spring

Faculty Name: Siddharth Dangi

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FS132.1	Explain nature and problems of crime scene	Understand
FS132.2	Categorize various types of crime scenes	Analyse
FS132.3	Create crime scene field notes, sketches and photographs	Create
FS132.4	Use procedures of crime scene reconstruction	Apply
FS132.5	Interpret various types of physical evidences found at a crime scene	Understand
FS132.6	Analyse scene of crime and evidences	Analyse

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Course Outcomes

Course Name: TRACE EVIDENCE ANALYSIS

Course Code: FS 141

Year: 2019-20

Semester: ~~Spring~~ Autumn

Faculty Name: Ms. Barkha Yadav

CO Number	Course Outcome statement At the completion of the course, student will be able to…	Taxonomy Level
FS 141.1	Understand the biological fluids, chemicals, poisons, firearms, fingerprints and tool marks	Understand and Remember
FS 141.2	Understand the search and seizure, privilege against self – incrimination, subpoenas deposition, Miranda rights, condemned of court, FIR, types of cognizable and non-cognizable offences; Expert's Testimony	Understand and Remember
FS 141.3	Understand the Composition of glass fractures and Examination of soil	Understand and Remember
FS 141.4	Understand the paint chemistry, forensic examination of household paints and automobile paints	Understand and Remember
FS 141.5	Understand the Importance, nature, location, collection, evaluation of Hair samples	Understand and Remember
FS 141.6	Understand the Classification of fibers	Understand and Remember

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Course Outcomes

Course Name: Crime Scene Investigation Practical

Course Code: FS 142

Year: I 2019-20

Semester: II

Faculty Name: Ms. Barkha Yadav

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
142.1	Perform crime scene searching.	Understand, Apply
142.2	Document the indoor and outdoor crime scene using Baseline method.	Understand, Apply
142.3	Document the indoor and outdoor crime scene using Triangulation method.	Understand, Apply
142.4	Perform polar co-ordinate method for sketching of outdoor crime Scene.	Understand, Apply
142.5	Collection and packaging of different types of evidence.	Understand, Apply

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Course Outcomes

Course Name: DNA PROFILING

Course Code: FS 231

Year: 2019-20

Semester: Spring

Faculty Name: Mr. Ulhas Gondhali

CO Number	Course Outcome statement At the completion of the course, student will be able to…	Taxonomy Level
FS 231.1	Understand the importance of DNA fingerprinting in forensic science, structure of DNA, RNA	Understand
FS 231.2	Understand collection and types of evidences for DNA fingerprinting, different types of DNA isolation techniques	Understand and apply
FS 231.3	Understand the Electrophoresis and Southern blotting	Understand and Remember
FS 231.4	Understand Polymerase Chain Reaction	Understand and Remember
FS 231.5	Understand VNTR and RFLP, STRs and Genotyping	Understand and Remember
FS 231.6	Understand the Practical application of DNA Fingerprinting	Understand and Remember

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Course Outcomes

Course Name: DNA Profiling

Course Code: FS 231

Year: Second 2019-20

Semester: Third

Faculty Name: Mr. Ulhas Gondhali

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FS231.1	Understand the DNA fingerprint, and related macro molecules	Understand
FS231.2	Extract DNA from various biological samples	Apply
FS231.3	Understand principles and working of various DNA fingerprinting steps	Understand
FS231.4	Learn various techniques of DNA fingerprinting	Understand
FS231.5	Apply techniques of DNA fingerprinting to paternity testing and personal identification	Apply
FS231.6	Learn various aspects of DNA fingerprinting	Understand

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Course Outcomes

Course Name: Forensic Toxicology

Course Code: FS 232

Year: II 2019-20

Semester: IV

Faculty Name: Ms. Barkha Yadav

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FS232.1	Gather the knowledge about classification of poison, dosage and drug of abuse.	Remember
FS232.2	Learn the metabolism of ethyl alcohol and its effect on circulatory system.	Understand
FS232.3	Understand the use of breath test instrument, and analysis of blood for alcohol.	Understand, Apply
FS232.4	Learn about Arsenic and Mercury poisoning, its detection and its medicolegal aspects.	Understand, Apply
FS.232.5	Gather the knowledge about classification of Barbiturates, its effects and detection.	Understand, Apply
FS232.6	Understand the nature, poisoning and medicolegal aspects of various pesticides.	Understand, Remenber
FS232.7	Learn how to extract and detect pesticides from viscera.	Understand, Apply
FS232.8	Understand the nature, symptoms and medicolegal aspects of various volatile poisons.	Understand
FS232.9	Gather knowledge about some vegetable and animal poison.	Understand, Remember
FS232.10	Learn how to extract and detect active components of poisonous plant.	Understand, Apply

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Course Outcomes

Course Name: DNA PROFILING LAB

Course Code: FS 241

Year: 2019-20

Semester: Spring

Faculty Name: Mr. Ulhas Gondhali

CO Number	Course Outcome statement At the completion of the course, student will be able to…	Taxonomy Level
FS 241.1	Understand the isolation of Plasmid and Genomic DNA	Remember, Understand, Apply
FS 241.2	Understand the Restriction Digestion	Remember, Understand, Apply
FS 241.3	Understand the DNA Fragment Size Determination	Remember, Understand, Apply
FS 241.4	Understand the PCR Demonstration and Principal	Remember, Understand, Apply
FS 241.5	Understand Isolation of Microbes through Soil, Air and Water Samples	Remember, Understand, Apply
FS 241.6	Understand the DNA Estimation through Spectroscopy	Remember, Understand, Apply

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Course Outcomes

Course Name: DNA PROFILING LAB

Course Code: FS 241

Year: Second 2019-20

Semester: Third

Faculty Name: Mr. Ulhas Gondhali

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FS241.1	Isolation of Plasmid and Genomic DNA	Apply
FS241.2	Restriction Digestion of the extracted DNA sapmle	Apply
FS241.3	Able To determine DNA Fragment Size	Apply
FS241.4	Understand working of PCR and its Principal	Understand
FS241.5	Estimate DNA through Spectroscopy	Apply
FS241.6	Isolate Microbes through Soil, Air and Water Samples	Apply

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Course Outcomes

Course Name: Forensic Toxicology Practical

Course Code: FS 242

Year: II 2019-20

Semester: IV

Faculty Name: Ms. Barkha Yadav

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
242.1	Examine the presence of metallic poison.	Understand, Apply
242.2	Analysis of volatile and non-volatile.	Understand, Apply
242.3	Perform TLC of Insecticides, Barbiturates and other drugs.	Understand, Apply
242.4	Analysis of vegetable poisons.	Understand, Apply
242.5	Perform TLC of different kinds of ink samples.	Understand, Apply
242.6	Lab test for hallucinogens.	Understand, Apply

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Course Outcomes

Course Name: FINGERPRINT SCIENCE

Course Code: FS 252

Year: Second 28/9-20

Semester: Four

Faculty Name: Mr. Ulhas Gondhali

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FS252.1	Learn origin and history of fingerprint	Remember
FS252.2	Understand the principles of fingerprinting and significance in criminal investigation	Understand
FS252.3	Learn and identify types of fingerprints and fingerprints characteristics	Apply
FS252.4	Learn to Collect, lift and preserve fingerprints	Apply
FS252.5	Learn classification of fingerprints	Apply
FS252.6	Comprehend various physical and chemical fingerprint development techniques	Apply
FS252.7	Learn photography of fingerprints and presentation of fingerprints in court	Apply
FS252.8	Learn history and development and understand working of AFIS	Remember
FS252.9	Comprehend biometric classification systems and biometric traits	Understand

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Course Outcomes

Course Name: FINGERPRINT SCIENCE PRACTICALS

Course Code: FS 262

Year: Second 2019-20

Semester: Four

Faculty Name: Mr. Ulhas Gondhali

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FS262.1	Learn collection of Contact and Roll fingerprints	Apply
FS262.2	Comprehend analysis of class and individual characteristics of fingerprints	Apply
FS262.3	Learn ridge tracing and ridge counting in fingerprints	Apply
FS262.4	Learn identification of fingerprints by minutiae examination	Apply
FS262.5	Learn different techniques for collection of fingerprints	Apply
FS262.6	Learn fingerprint print development by Iodine and Ninhydrine methods	Apply

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Course Outcomes

Course Name: DIGITAL FORENSIC PRACTICAL

Course Code: FS 313

Year: 2019-20

Semester: Spring

Faculty Name: Mr. Siddharth Dangi

CO Number	Course Outcome statement At the completion of the course, student will be able to…	Taxonomy Level
FS 371.1	Understand the Disk Forensics and Data Recovery	Understand and Remember
FS 371.2	Understand the Determination of species of origin, Ring test, Immunoelectrophoresis	Understand and Remember
FS 371.3	Understand the Anti-forensic techniques: TrueCrypt, Shredder	Understand and Remember
FS 371.4	Understand the Steganography	Understand and Remember
FS 371.5	Understand the Network monitors	Understand and Remember
FS 371.6	Understand the Registry Forensics	Understand and Remember

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Course Outcomes

Course Name: **Multimedia Forensics**

Course Code: **FS 314**

Year: **Third** 2019-20

Semester: **Spring**

Faculty Name: **Siddharth Dangi**

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FS314.1	Explain multimedia, various types of multimedia and Multimedia Forensics	Understand
FS314.2	Discuss steganography, digital watermarking and digital fingerprinting	Understand
FS314.3	Outline the major domains of speech and language processing	Analyse
FS314.4	Assess speech samples based on speech recognition protocols and techniques	Evaluate
FS314.5	Apply the concepts of grammar, morphology, lexicon, syntax, semantics and pragmatics for English Language in Speech recognition	Apply
FS314.6	Discuss the automated aspects of speech and language processing	Understand

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Course Outcomes

Course Name: **Questioned Document Examination**

Course Code: **FS 324**

Year: **Third** 2019-20

Semester: **Spring**

Faculty Name: **Siddharth Dangi**

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FS324.1	Categorize forensic documents	Analyse
FS324.2	Explain history and terminologies related to Questioned Document Examination, physiology of handwriting and the process of identification	Understand
FS324.3	Compare handwriting exemplars	Evaluate
FS324.4	Examine various questioned documents cases	Apply
FS324.5	Describe forgery and signature verification	Understand
FS324.6	Apply instrumentation in Questioned Document Examination	Apply

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Course Outcomes

Course Name: FS 334

Course Code: Questioned Document Examination in Lab

Year: Third 2019-20

Semester: Spring

Faculty Name: Siddharth Dangi

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FS334.1	Examine handwriting characteristics	Apply
FS334.2	Compare handwriting exemplars	Evaluate
FS334.3	Use forensic stylistics for author identification	Apply
FS334.4	Determine forgery in signature exemplars and forgery/counterfeiting in questioned documents	Apply
FS334.5	Analyse ink samples from various writing instruments	Analyse
FS334.6	Justify opinions for the cases related to Questioned Document Examination	Evaluate

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Course Outcomes

Course Name: FORENSIC BALLISTICS AND TOOL MARKS

Course Code: FS344

Year: Third 2019-20

Semester: Sixth

Faculty Name: Mr. Ulhas Gondhali

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FS344.1	Develop understanding of components and working of firearms	Understand
FS344.2	Analyze fired ammunition for firearm linkage	Analyze
FS344.3	Learn and analyze appearance of gunshot wound	Analyze
FS344.4	Comprehend reconstruction of crime scene	Apply
FS344.5	Develop understanding of analysis of firearm injuries	Understand
FS344.6	Learn and analyze tool marks and its comparison techniques	Analyze
FS344.7	Understand techniques of impression evidences examination and interpretation	Understand

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Course Outcomes

Course Name: FORENSIC SEROLOGY and BLOOD SPLATTER ANALYSIS

Course Code: FS 371

Year: 2019-20

Semester: ~~Spring~~ Autumn

Faculty Name: Ms. Barkha Yadav

CO Number	Course Outcome statement At the completion of the course, student will be able to…	Taxonomy Level
FS 371.1	Understand the nature of blood, collection, preservation and packing of blood evidence and tests used in Blood Analysis	Understand and Remember
FS 371.2	Understand the Determination of species of origin, Ring test, Immunoelectrophoresis	Understand and Remember
FS 371.3	Understand the Characteristics of liquid blood and blood droplets under force	Understand and Remember
FS 371.4	Understand the Basic tenets of bloodstain pattern analysis	Understand and Remember
FS 371.5	Understand the Projected and Impact Spatter stains	Understand and Remember
FS 371.6	Understand the area of origin determinations. determine the impact angle, determine directionality	Understand and Remember

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Course Outcomes

Course Name: Instrumentation in Forensic Science

Course Code: Fs 372

Year: III 2019-20

Semester: VI

Faculty Name: Dr. Neha Verma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
372.1	Gather knowledge about various spectroscopic method, its instrumentation and application.	Understand
372.2	Learn about centrifugation its type and application.	Remember
372.3	Gather Knowledge about various microscopic technique.	Understand
372.4	Explain difference between light and electron microscope.	Remember, Understand
372.5	Learn about mass spectroscopy, correlation of mass spectra, Fourier transform mass spectrometry.	Understand
372.6	Understand instrumentation of inductively coupled plasma mass spectroscopy.	Understand

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Course Outcomes

Course Name: Instrumentation Practical

Course Code: FS 382

Year: III 2019-20

Semester: VI

Faculty Name: Dr. Neha Verma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
382.1	Perform practical's of stoichiometry.	Apply
382.2	Learn preparation of molal and molar solution.	Apply
382.3	Qualitative Analysis using UV-Visible Spectrometer.	Apply
382.4	Quantitative Analysis using UV-Visible Spectrometer.	Apply
382.5	Sample preparation for IR Spectrometer	Apply
382.6	IR spectrometer demonstration.	Remember

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Course Outcomes

Course Name: WILDLIFE FORENSICS

Course Code: FS392

Year: Third 2019-20

Semester: Sixth

Faculty Name: Mr. Ulhas Gondhali

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FS392.1	develop understanding of wildlife crimes and endangered wildlife flora and fauna	Understand
FS392.2	Learn basics of Forensic Microbiology and Medicine	Understand
FS392.3	Comprehend the process of entomological investigation	Apply
FS392.4	Analyze the technique of estimation of postmortem interval from entomological analysis	Understand
FS392.5	Learn various types of botanical evidences and their applications in criminal investigation	Analyze
FS392.6	Comprehend examination of biological evidences and their application in criminal investigation	Analyze

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Course Outcomes

Course Name: CRIMINOLOGY, CRIMINAL LAW & POLICE ADMINISTERATION

Course Code: FS501

Year: 2019-20

Semester: Spring

Faculty Name: Ms Barkha Yadav

CO Number	Course Outcome statement At the completion of the course, student will be able to…	Taxonomy Level
FS501.1	Understand the concept of criminology and victimology, theories of crime causation, and classification of crimes	Remember, Understand
FS501.2	Understand the concept of juvenile delinquency and punishment	Remember, Understand
FS501.3	Understand the type of offences and Indian courts structure	Remember, Understand
FS501.4	Understand the NDPS Act, Food and Adulteration Act, Drugs and Cosmetic Act, Arms Act, Explosives Act.	Remember
FS501.5	Understand the police administration in India, the structure and role of Police in India	Remember, Understand
FS501.6	Understand the scope and development of criminal laws in India	Remember, Understand

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Course Outcomes

Course Name: ELEMENTS OF FORENSIC MEDICINE, ODONTOLOGY

Course Code: FS 502

Year: 2019-2020

Semester: II

Faculty Name: Dr. Anand S Lodha

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FS 502.1	Explain Forensic Medicine in details	Understand
FS 502.2	Apply principles of healing mechanisms and predict the Age of Wound or injuries	Apply
FS 502.3	Apply principles of Asphyxia and predict the Cause of death	Apply
FS 502.4	Explain Forensic odontology in details	Understand
FS 502.5	Apply principles of odontology and predict the Age and Sex of the person	Apply
FS 502.6	Apply Knowledge of Forensic Medicine and Odontology for personal identification and cause/manner of death	Apply

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Course Outcomes

Course Name: Introduction to Forensic Science and Crime Scene Investigation

Course Code: FS511

Year: 2019-20

Semester: Spring

Faculty Name: Dr Anand Iodha

CO Number	Course Outcome statement At the completion of the course, student will be able to…	Taxonomy Level
FS511.1	Understand the concept of crime, types, causes of crime, significance of physical evidences	Understand
FS511.2	Understand the concept of quality, quality system and management	Understand and apply
FS511.1	Understand the various methods of interrogation, ethical issues, and court testimony	Understand and apply
FS511.1	Understand analytical workflow in forensic science laboratories	Create and apply
FS511.1	Understand different divisions of forensic laboratories and case examination.	Remember

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Course Outcomes

Course Name: Instrumentation in Forensic Science

Course Code: FS 512

Year: I Semester: II 2019-20

Faculty Name: Dr. NehaVerma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
512.1	Gather knowledge about various chromatographic technique and its application.	Understand
512.2	Learn instrumentation and working of spectroscopic techniques.	Understand
512.3	Learn about centrifugation its type and application.	Understand
512.4	Gather Knowledge about various microscopic technique.	Remember, Understand
512.5	Learn about mass spectroscopy, correlation of mass spectra, Fourier transform mass spectrometry.	Understand
512.6	Understand Instrumentation of inductively coupled plasma mass spectroscopy.	Understand
512.7	Gather Knowledge aboutLaser Mass spectrometry, Fast Atom bombardment and liquid secondary Ion Mass spectrometry.	Understand

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Course Outcomes

Course Name: Forensic Physics and Trace Evidences

Course Code: FS 521T

Year: 2019-20

Semester: Spring

Faculty Name: Dr Anand lodha

CO Number	Course Outcome statement At the completion of the course, student will be able to…	Taxonomy Level
FS 521.1	Understand the soil as physical evidences and its forensic significance	Understand
FS 521.2	Understand types of glass and their composition, Forensic examination of glass fractures and its forensic significance	Understand and apply
FS 521.3	Understand the types of paint and their composition, macroscopic and microscopic studies and its forensic significance	Understand and apply
FS 521.4	Understand types of tool marks: compression marks, striated marks, combination of compression and striated marks and its forensic significance, forensic analysis	Create and apply
FS 521.5	Understand different method of making-cast, punch, engrave; methods of obliteration, method of restoration.	Remember and apply
FS 521.6	Understand the speaker identification and tape authentication and and its forensic significance	Understand and Remember

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Course Outcomes

Course Name: ELEMENTS OF FORENSIC MEDICINE, ODONTOLOGY

Course Code: FS 502

Year: 2019-2020

Semester: II

Faculty Name: Dr. Anand S Lodha

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FS 502.1	Explain Forensic Medicine in details	Understand
FS 502.2	Apply principles of healing mechanisms and predict the Age of Wound or injuries	Apply
FS 502.3	Apply principles of Asphyxia and predict the Cause of death	Apply
FS 502.4	Explain Forensic odontology in details	Understand
FS 502.5	Apply principles of odontology and predict the Age and Sex of the person	Apply
FS 502.6	Apply Knowledge of Forensic Medicine and Odontology for personal identification and cause/manner of death	Apply

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Course Outcomes

Course Name: Introduction to Forensic Chemistry, Toxicology and Pharmacology

Course Code: FS 532

Year: I 2019-20

Semester: II

Faculty Name: Ms. Barkha Yadav

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FS532.1	Learn about types of cases and exhibits Forensic Chemistry division deals.	Understand
FS532.2	Gather knowledge about arson cases and analysis of petroleum products.	Understand, Apply
FS532.3	Learn the metabolism of ethyl alcohol and its effect on circulatory system.	Understand
FS532.4	Understand the use of breath test instrument, how it works its type and analysis of blood for alcohol.	Understand, Apply
FS532.5	Explain the differences between illicit and country made liquor.	
FS532.6	Define drug of abuse and drug doping, Narcotic drug and Psychotropic substances.	Remember
FS532.7	Understand designer drug their forensic examination , NDPS Act and Drug and Cosmetic Act.	Understand
FS532.8	Classify various types of poison, Action of poison, various factors modifying its action and Law related to poison.	Understand
FS532.9	Extract and isolate drugs viscera, tissue and body fluids.	Apply

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Course Outcomes

Course Name: Instrumentation in Forensic Science

Course Code: FS 512

Year: I 2019-20

Semester: II

Faculty Name: Dr. NehaVerma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
512.1	Gather knowledge about various chromatographic technique and its application.	Understand
512.2	Learn instrumentation and working of spectroscopic techniques.	Understand
512.3	Learn about centrifugation its type and application.	Understand
512.4	Gather Knowledge about various microscopic technique.	Remember, Understand
512.5	Learn about mass spectroscopy, correlation of mass spectra, Fourier transform mass spectrometry.	Understand
512.6	Understand Instrumentation of inductively coupled plasma mass spectroscopy.	Understand
512.7	Gather Knowledge aboutLaser Mass spectrometry, Fast Atom bombardment and liquid secondary Ion Mass spectrometry.	Understand

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Course Outcomes

Course Name: INTRODUCTION TO FORENSIC BIOTECHNOLOGY

Course Code: FS 542

Year: 2019-2020

Semester: II

Faculty Name: Dr. AnandLodha

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FS 542.1	Explain in details Hair & Fiber	Understand
FS 542.2	Apply the knowledge of Forensic Botany and analyses the evidences	Apply
FS 542.3	Apply the knowledge of Forensic Anthropology for personal Identification	Apply
FS 542.4	Apply the knowledge of DNA for Personal identifications	Apply
FS 542.5	Explain the Blood and different body fluids, DNA, Anthropology	Understand
FS 542.6	Apply the knowledge of Immunology for Blood typing	Apply

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Course Outcomes

Course Name: FORENSIC PRACTICALS II

Course Code: FS 562

Year: 2018-2019

Semester: II

Faculty Name: Dr. AnandLodha

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FS 562.1	Apply the knowledge of Odontology for Personal Identification	Apply
FS 562.2	Evaluate the UV visible and IR spectrophotometer graph	Evaluate
FS 562.3	Apply the knowledge of Chromatography and perform the Paper and thin layer chromatography	Apply
FS 562.4	Apply the knowledge of Forensic Anthropology and Predict the Identity	Apply
FS 562.5	Apply the knowledge of Forensic Medicine for Autopsy	Apply
FS 562.6	Apply the knowledge of Forensic Chemistry for predict the graph and results of chromatography	Apply

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Course Outcomes

Course Name: **Introduction to Questioned Documents Examination**

Course Code: **FS 522**

Year: **First** 2019-20

Semester: **Spring**

Faculty Name: **Siddharth Dangi**

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FS522.1	Categorize forensic documents	Analyse
FS522.2	Explain history and terminologies related to Questioned Document Examination, physiology of handwriting and the process of identification	Understand
FS522.3	Compare handwriting exemplars	Evaluate
FS522.4	Infer cases involving forgeries, indentations, secret writing, impressions, photocopies, typewriting, printed matter, tampering, counterfeits, security documents and various questioned documents	Analyse
FS522.5	Determine age of document based on paper analysis, ink analysis and anachronistic features	Apply
FS522.6	Explain the concepts of Forensic Linguistics and Computer Forensics	Understand

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Course Outcomes

Course Name: DISASTER MANAGEMENT and VICTIM IDENTIFICATION

Course Code: FS552

Year: First 2019-20

Semester: Second

Faculty Name: Mr. UlhasGondhali

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FS552.1	Learn and understand characteristics and types of Disasters, Causes and effects	Understand
FS552.2	Learn responsibilities of different agencies and govt for disaster management	Remember
FS552.3	Learn and understand functioning of different technologies for disaster management	Remember
FS552.4	Understand the human behavior and psychological response during disaster	Understand
FS552.5	Learn and Understand onsite disaster site management process	Understand
FS552.6	Identification and application of various biometric characteristics for victim identification	Apply

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Course Outcomes

Course Name: **Introduction to Questioned Documents Examination**

Course Code: **FS 522**

Year: **First** 2019-20

Semester: **Spring**

Faculty Name: **Siddharth Dangi**

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FS522.1	Categorize forensic documents	Analyse
FS522.2	Explain history and terminologies related to Questioned Document Examination, physiology of handwriting and the process of identification	Understand
FS522.3	Compare handwriting exemplars	Evaluate
FS522.4	Infer cases involving forgeries, indentations, secret writing, impressions, photocopies, typewriting, printed matter, tampering, counterfeits, security documents and various questioned documents	Analyse
FS522.5	Determine age of document based on paper analysis, ink analysis and anachronistic features	Apply
FS522.6	Explain the concepts of Forensic Linguistics and Computer Forensics	Understand

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Course Outcomes

Course Name: Introduction to Forensic Chemistry, Toxicology and Pharmacology

Course Code: FS 532

Year: I 2019-20

Semester: II

Faculty Name: Ms. Barkha Yadav

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FS532.1	Learn about types of cases and exhibits Forensic Chemistry division deals.	Understand
FS532.2	Gather knowledge about arson cases and analysis of petroleum products.	Understand, Apply
FS532.3	Learn the metabolism of ethyl alcohol and its effect on circulatory system.	Understand
FS532.4	Understand the use of breath test instrument, how it works its type and analysis of blood for alcohol.	Understand, Apply
FS532.5	Explain the differences between illicit and country made liquor.	
FS532.6	Define drug of abuse and drug doping, Narcotic drug and Psychotropic substances.	Remember
FS532.7	Understand designer drug their forensic examination , NDPS Act and Drug and Cosmetic Act.	Understand
FS532.8	Classify various types of poison, Action of poison, various factors modifying its action and Law related to poison.	Understand
FS532.9	Extract and isolate drugs viscera, tissue and body fluids.	Apply

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Course Outcomes

Course Name: FORENSIC BALLISTICS

Course Code: FS 541

Year: 2019-20

Semester: Spring

Faculty Name: Mr. Ulhas Gondhali

CO Number	Course Outcome statement At the completion of the course, student will be able to…	Taxonomy Level
FS 541.1	Understand Firearms, Indian Arms Act, Characteristic features of the firearms, various types of modern firearms	Remember, Understand
FS 541.2	Understand the Classification and constructional features of different types of ammunitions	Remember, Understand
FS 541.3	Understand the Principles and practice of identification of firearms, different types of marks produced	Remember, Understand, Apply
FS 541.4	Understand the techniques for obtaining test material from various types of weapons and their linkage with fired ammunition, class and individual characteristics	Remember, Understand
FS 541.5	Understand the time of firing – different methods employed, and their limitations, stereo & comparison microscopy, automatic bullet and cartridge comparison system	Remember, Understand, Apply
FS 541.6	Understand the Explosive Act, nature and classification, composition and characteristics of explosives, pyrotechnics, IEDs, Explosion process and affects	Remember, Understand, Apply

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Course Outcomes

Course Name: FORENSIC BALLISTICS

Course Code: FS 541

Year: First 2019-20

Semester: First

Faculty Name: Mr. Ulhas Gondhali

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FS541.1	Develop understanding of components and working of firearms	Understand
FS541.2	Understand Ammunition its types and components	Understand
FS541.3	Analyze fired ammunition for firearm linkage Learn and analyze appearance of gunshot wound	Analyze
FS541.4	Develop understanding of analysis of firearm injuries and determine range of fire	Analyze
FS541.5	Develop understanding of Explosives and explosion process	Understand
FS541.6	Investigate explosive crime scenes	Analyze

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Course Outcomes

Course Name: DISASTER MANAGEMENT and VICTIM IDENTIFICATION

Course Code: FS552

Year: First 20/9-20

Semester: Second

Faculty Name: Mr. Ulhas Gondhali

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FS552.1	Learn and understand characteristics and types of Disasters, Causes and effects	Understand
FS552.2	Learn responsibilities of different agencies and govt for disaster management	Remember
FS552.3	Learn and understand functioning of different technologies for disaster management	Remember
FS552.4	Understand the human behavior and psychological response during disaster	Understand
FS552.5	Learn and Understand onsite disaster site management process	Understand
FS552.6	Identification and application of various biometric characteristics for victim identification	Apply

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Course Outcomes

Course Name: INTRODUCTION TO FORENSIC BIOTECHNOLOGY

Course Code: FS 542

Year: 2019-2020

Semester: II

Faculty Name: Dr. AnandLodha

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FS 542 .1	Explain in details Hair & Fiber	Understand
FS 542.2	Apply the knowledge of Forensic Botany and analyses the evidences	Apply
FS 542.3	Apply the knowledge of Forensic Anthropology for personal Identification	Apply
FS 542.4	Apply the knowledge of DNA for Personal identifications	Apply
FS 542.5	Explain the Blood and different body fluids, DNA, Anthropology	Understand
FS 542.6	Apply the knowledge of Immunology for Blood typing	Apply

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Course Outcomes

Course Name: Fingerprinting and Forensic Photography

Course Code: FS 601

Year: 2019-20

Semester: Spring

Faculty Name: Mr. Ulhas Gondhali

CO Number	Course Outcome statement At the completion of the course, student will be able to…	Taxonomy Level
FS 601.1	Understand the photography techniques, different types of cameras and lenses.	Understand
FS 601.2	Understand the process of photography and techniques of film development	Understand and apply
FS 601.3	Understand the historical aspects of fingerprint science, morphogenesis of friction ridge skin, types of fingerprints and surfaces	Understand and apply
FS 601.4	Understand the Henry's system of classification, Batley's Single Digit classification, NCIC; AFIS	Create and apply
FS 601.5	Understand different systems of biometric,	Remember
FS 601.6	Methods of lifting and developing latent fingerprints	Understand and apply

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Course Outcomes

Course Name: FORENSIC PRACTICALS II

Course Code: FS 562

Year: 2019-2020

Semester: II

Faculty Name: Dr. AnandLodha

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FS 562.1	Apply the knowledge of Odontology for Personal Identification	Apply
FS 562.2	Evaluate the UV visible and IR spectrophotometer graph	Evaluate
FS 562.3	Apply the knowledge of Chromatography and perform the Paper and thin layer chromatography	Apply
FS 562.4	Apply the knowledge of Forensic Anthropology and Predict the Identity	Apply
FS 562.5	Apply the knowledge of Forensic Medicine for Autopsy	Apply
FS 562.6	Apply the knowledge of Forensic Chemistry for predict the graph and results of chromatography	Apply

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Course Outcomes

Course Name: FORENSIC PRACTICAL-I

Course Code: FS 561

Year: 2019-20

Semester: Spring

Faculty Name: Dr. Anand Lodha

CO Number	Course Outcome statement At the completion of the course, student will be able to…	Taxonomy Level
FS 561.1	Examine physical properties of Soil	Understand and apply
FS 561.2	Examine physical properties of Glass	Understand and apply
FS 561.3	Examine physical properties of paints	Understand and apply
FS 561.4	Examine different cloth pieces from crime scene	Understand and apply
FS 561.5	Draw sketch of the Indoor and Outdoor Crime scene	Understand and apply
FS 561.6	Collect, pack and forward the trace evidences	Understand and apply

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Course Outcomes

Course Name: Forensic Practical's III

Course Code: FS 631

Year: Second

Semester: Third

Faculty Name: Mr. Ulhas Gondhali

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FS631.1	Capture photographic , Indoor and Outdoor crime scene photography	Apply
FS631.2	Collection and development of Fingerprint using various methods	Apply
FS631.3	Perform classification of fingerprints	Apply
FS631.4	Examine security features of documents	Apply
FS631.5	Analyze and compare audio/voice samples	Apply
FS631.6	Analyze and compare video samples	Apply

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Course Outcomes

Course Name: ADVANCED FORENSIC BIOLOGY & ANTHROPOLOGY

Course Code: FS671

Year: 2019-20

Semester: Spring

Faculty Name: Dr Anand Lodha

CO Number	Course Outcome statement At the completion of the course, student will be able to…	Taxonomy Level
FS671.1	Understand the wild life forensic and wild life protection act 1972	Remember, Understand
FS671.2	Understand the significance of forensic entomology and forensic microbiology	Remember, Understand
FS671.3	Understand the Identification of individuals from skeletal remains using somatometry, osteometry & craniometry	Remember, Understand
FS671.4	Understand the superimposition and facial reconstruction techniques.	Remember and apply
FS671.5	Understand the forensic taphonomy, forensic radiology and its significance	Remember, Understand
FS671.6	Understand the Postmortem changes in the body and determination of PMI	Remember, Understand, apply

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Course Outcomes

Course Name: ADVANCED FORENSIC SEROLOGY & DNA PROFILING

Course Code: FS 681

Year: Second 2019-20

Semester: Third

Faculty Name: Mr. Ulhas Gondhali

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FS681.1	Characterize Blood as an evidence, its forms and techniques of identification	Analyze
FS681.2	Characterize Body fluids as an evidence, its forms and techniques of identification	Analyze
FS681.3	Determine species of origin from various body fluids	Apply
FS681.4	Develop an understanding of serological markers, its functions and applications	Understand
FS681.5	Understand DNA extraction and Profiling	Understand
FS681.6	Understand application, legality of DNA profiling	Understand

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Course Outcomes

Course Name: Forensic Practical IV B

Course Code: FS 691

Year: Second 2019-20

Semester: Third

Faculty Name: Mr. Ulhas Gondhali

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FS691.1	Perform various test for identification of biological fluids	Apply
FS691.2	Analyze and identify human bones	Analyze
FS691.3	Analyze other biological evidences	Analyze
FS691.4	Perform DNA extraction	Apply
FS691.5	Perform Quantification and Quantitation of DNA	Apply
FS691.6	Perform DNA profiling	Apply

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Course Outcomes

Course Name: CHEMISTRY, PHARMACOLOGY, TOXICOLOGY PRACTICAL

Course Code: FS 661

Year: 2019-20

Semester: Spring

Faculty Name: Dr. Kulveer Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to…	Taxonomy Level
FS 661.1	Define the nature of isolation, TLC and spot test for trace chemical evidence analysis	Remember
FS 661.2	Understand the classification, characterization of isolation, TLC techniques used in Forensic chemistry	Understand
FS 661.3	Apply the method of isolation, TLC for different toxicological exhibits such as drugs and poisons.	Apply
FS 661.4	Analyze the problem related to method of isolation, TLC for different toxicological exhibits such as drugs and poisons.	Analyse
FS 661.5	Evaluate the method of isolation, TLC for different toxicological exhibits such as drugs and poisons.	Evaluate
FS 661.6	May integrate the role of method of isolation, TLC for different Toxicological exhibits in criminal investigations	Create

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Course Outcomes

Course Name: ADVANCED FORENSIC PHARMACOLOGY & TOXICOLOGY

Course Code: FS 661

Year: 2019-20

Semester: Spring

Faculty Name: Dr. Kulveer Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to…	Taxonomy Level
FS 651.1	Define the different aspects of Drug Pharmacology and the concept of Forensic toxicology and nature of the toxicological investigations undertaken in forensic laboratories.	Remember
FS 651.2	Explain the toxicological signs & symptoms of toxins and their pharmacological effect on the body when administered.	Understand
FS 651.3	Implement the knowledge of toxicology of drugs and poisons in various forensic toxicological samples.	Apply
FS 651.4	Analyses the Toxicology and medicolegal aspect of Insecticide, Animal Poisons, Asphyxiants and volatile poisons, Metallic -Non Metallic Poisons.	Analyze
FS 651.5	Compare the Forensic analysis of Insecticide, Animal Poisons, Asphyxiants and volatile poisons.	Evaluate
FS 651.6	Create a complete knowledge to all laboratory procedures for the examination of biological and nonbiological evidence containing unknown toxin through systematic analysis.	Create

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Course Outcomes

Course Name: ADVANCED FORENSIC CHEMISTRY

Course Code: FS 641

Year: 2019-20

Semester: Spring

Faculty Name: Dr. Kulveer Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to…	Taxonomy Level
FS 641.1	Define the nature and classification of explosives, petroleum products, insecticide.	Remember
FS 641.2	Understand the classification, characterization of explosives, petroleum products, arson. and	Understand
FS 641.3	Apply the method of searching, collecting, preserving of arson, petroleum products, explosive and toxicological exhibits.	Apply
FS 641.4	Analyze the physical, chemical and instrumental analysis of ignitors, petroleum products, explosive and toxicological exhibits	Analyse
FS 641.5	Evaluate the Expert testimony of Forensic Chemical examiner in court	Evaluate
FS 641.6	May integrate the role of ignitors, petroleum products, explosive and toxicological exhibits in criminal investigations	Create

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Course Outcomes

Course Name: STATISTICS & RESEARCH METHODOLOGY

Course Code: FS 551

Year: 2019-20

Semester: Spring

Faculty Name: Dr. Prashant Kumar Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to…	Taxonomy Level
FS 551.1	Define the concept of research, criteria of a good research, research process formulation, and research-related ethical issues.	Remember
FS 551.2	Explain the concept and Significance of sampling, its type used in research design.	Understand
FS 551.3	Analyse the various data collection methods and their application in different research design.	Apply
FS 551.4	Analyze the concept of various methods of central tendency and analyzing the data analysis-and hypothesis testing procedures in research.	Analyse
FS 551.5	Evaluate the Parametric and Nonparametric Statistics and their significance in research analysis	Evaluate
FS 551.6	Designing a research study from its inception to its report writing and its various components	Create

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Course Outcomes

Course Name: **Introduction to Digital Forensics**

Course Code: FS 531

Year: 2019-2020

Semester: Autumn

Faculty Name: Prashant Kumar Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to…	Taxonomy Level
FS 531.1	Understand Introduction to Digital Forensics, Classification, Definition and types of cybercrimes, electronic evidence and handling, electronic media, collection, searching and storage of electronic media, introduction to internet crimes, hacking and cracking, credit card and ATM frauds, web technology, cryptography, emerging digital crimes and modules	Remember
FS 531.2	Explain Computer Classification, Hardware, Classification and Types, Memory, I/O Devices, Cloud Storage, Software, Programing and Algorithms, Flowcharts, Operating Systems, Networks: Architecture and Basic Configurations	Understand
FS 531.3	Solve problems related to Introduction to Incident Response Process, Preparing for Incident Response, detection of an Incident, IRM life cyclepreparation, Identification, Detection, Containment, Eradication, Recovery,Investigations of Cyber Crime cases as per IRM cycles.	Apply
FS 531.4	Analyse the problem related to Data Acquisition and Authentication Process, Windows Forensic Analysis of File Systems-FAT12, FAT16, FAT32 and NTFS, UNIX file Systems, mac file systems, Embedded System Analysis, Network Forensic Analysis Overview and Cloud Computing.	Analyse
FS 531.5	Compare all the aspects of Forensic Tools, Usage of Slack space, tools for Disk Imaging, Data Recovery, Vulnerability Assessment Tools, Encase and FTK tools, Anti Forensics and probable counters, retrieving information, process of computer	Evaluate
FS 531.6	May apply the knowledge in Forensics and digital investigations, processing of digital evidence, digital images	Create

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Course Outcomes

Course Name: **Digital Forensics**

Course Code: FS 391

Year: 2019-2020

Semester: Autumn

Faculty Name: Prashant Kumar Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to…	Taxonomy Level
FS 391.1	Understand Digital Forensics, Classification, Definition and types of cybercrimes, electronic evidence and handling,electronic media.	Remember
FS 391.2	Explain collection, searching and storage of electronic media, introduction to internet crimes, hacking and cracking, credit card and ATM frauds, web technology, cryptography, emerging digital crimes and modules	Understand
FS 391.3	Solve problems related to Computer Classification, Hardware, Classification and Types, Memory, I/O Devices, Cloud Storage, Software, Programing and Algorithms, Flowcharts, Operating Systems, Networks: Architecture and Basic Configurations	Apply
FS 391.4	Analyse the problem related to Windows Forensic File Systems-FAT12, FAT16, FAT32 and NTFS, UNIX file Systems, mac file systems, Embedded System Analysis,Network Forensic Analysis Overview and Cloud Computing	Analyse
FS 391.5	Compare all the aspects of Forensic Tools, Usage of Slack space, tools for Disk Imaging, Data Recovery, Vulnerability Assessment Tools, Encase and FTK tools, Anti Forensics and probable counters	Evaluate
FS 391.6	May apply , retrieving information, process of computer forensics and digital investigations, processing of digital evidence, digital images	Create

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Course Outcomes

Course Name: **DIGITAL IMAGING LAB**

Course Code: FS 353

Year: 2019-2020

Semester: Autumn

Faculty Name: Prashant Kumar Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to…	Taxonomy Level
FS 343.1	Understand Digitizing Image, Scaling Image, Filtering an Image, Image Normalization, Image Enhancement and Portrait Parley: Free Tools	Remember
FS 343.2	Explain Digitizing Image, Scaling Image, Filtering an Image, Image Normalization, Image Enhancement and Portrait Parley	Understand
FS 343.3	Solve problems related to Digitizing Image, Scaling Image, Filtering an Image, Image Normalization, Image Enhancement and Portrait Parley	Apply
FS 343.4	Analyse the problem related Digitizing Image, Scaling Image, Filtering an Image, Image Normalization, Image Enhancement and Portrait Parley	Analyse
FS 343.5	Compare all the aspects of Digitizing Image, Scaling Image, Filtering an Image, Image Normalization, Image Enhancement and Portrait Parley	Evaluate
FS 343.6	May create Digitizing Images, Scaling Image, Filtering an Image, Image Normalization and Image Enhancement	Create

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Course Outcomes

Course Name: **Forensic Photography, Digital Imaging and Portrait Parley**

Course Code: FS 343

Year: 2019-2020

Semester: Autumn

Faculty Name: Prashant Kumar Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to…	Taxonomy Level
FS 343.1	Understand Basic principles and techniques of photography, cameras and lenses,developments and printing, Different kinds of developers and fixtures,	Remember
FS 343.2	Explain modern developments in photography, linkage of cameras and film negatives, digital photography, digital water marking and digital imaging, high speed videogaphy, crime scene and laboratory photography	Understand
FS 343.3	Digital image fundamentals - Digital Image through scanner, digital camera. Concept of gray levels. Gray level to binary image conversion. Sampling and quantization. Relationship between pixels. Imaging Geometry.	Apply
FS 343.4	Analyse the problem related to Image Transform; Image enhancement Point processing. Histogram processing. Spatial filtering; Image Segmentation; Image Processing.	Analyse
FS 343.5	Compare all the aspects of **Portrait Parley** ,Composite Imagery: Graphic images composed of individually described characteristics of the human face; Image Modification/Identification: Methods of manipulation, enhancement and comparison.	Evaluate
FS 343.6	May integrate the fundamentals of Demonstrative Evidence: Visual information used for court purposes; Reconstructive/Postmortem Drawings; Methods of identifying human remains in various conditions of decomposition.	Create

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Course Outcomes

Course Name: FORENSIC ANTHROPOLOGY AND PERSONAL IDENTIFICATION

Course Code: FS 261

Year: 2019-20

Semester: Spring

Faculty Name: MR. Mayank Kumar Dubey

CO Number	Course Outcome statement At the completion of the course, student will be able to…	Taxonomy Level
FS 261.1	Define the Anatomical structure of long bones , pelvis	Remember
FS 261.2	Understand the Estimation of staure from long bone and determination of age, race and sex from long bone and pelvis	Understand
FS 261.3	Apply Anthropological techniques for estimation of height and weight of stature from long bone and determination of age, race and sex from pelvis.	Apply
FS 261.4	Analyze the problem related to height and weight estimations and determinations of age, sex and race during the examination	Analyse
FS 261.5	Compare the forensic examination of all methods and check their accuracy in result	Evaluate
FS 261.6	May integrate the knowledge of these examination from human remains in Forensic Personal identification cases	Create

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Course Outcomes

Course Name: FORENSIC ANTHROPOLOGY AND PERSONAL IDENTIFICATION

Course Code: FS 251

Year: 2019-20

Semester: Spring

Faculty Name: MR. Mayank Kumar Dubey

CO Number	Course Outcome statement At the completion of the course, student will be able to…	Taxonomy Level
FS 251.1	Define Forensic Anthropology, Forensic Odontology , Forensic thanatology and their forensic significance	Remember
FS 251.2	Understand the concept of Reconstruction, Biomolecular changes of death, bite mark and autopsy examinations	Understand
FS 251.3	Apply the anthropological and odonatological examination for determination of age, race and sex through human remains	Apply
FS 251.4	Analyze Antemortem and Postmortem changes and their importance in time since death.	Analyze
FS 251.5	Compare all the aspects and nature of different evidence examinations such as bite marks, Facial Reconstructions remains .	Evaluate
FS 251.6	Design a complete understanding of estimation of age, race and sex from human remains and their significance in personal identification	Create

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Course Outcomes

Course Name: TRACE EVIDENCE ANALYSIS IN LAB

Course Code: FS 151

Year: 2019-20

Semester: Spring

Faculty Name: Ms. Barkha Yadav

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FS 151.1	Define Physical and chemical properties of glass, paint, soil, Hair and fiber	Remember
FS 151.2	Explain the characteristic significance of properties of evidences helps in criminal investigations.	Understand
FS 151.3	Execute the microscopic and Instrumental Examination for analysis of density, refractive index.	Apply
FS 151.4	Analyze the problem related to physical and chemical examination of paint chips, hair, Fiber, soil and glass.	Analyze
FS 151.5	Compare the Microscopic and Instrumental analysis for its relevancy in different criminal investigations	Evaluate
FS 151.6	May integrate the significance of paint, glass, soil, hair and fiber and their forensic importance in various crime scene.	Create

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Course Outcomes

Course Name: **SPEECH ANALYSIS and MULTIMEDIA FORENSICS**
Course Code: FS 621
Year: 2019-2020

Semester: Autumn

Faculty Name: Prashant Kumar Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to…	Taxonomy Level
FS 621.1	Understand Speech Anatomy, Mechanism of speech Production, Acoustic Properties of Vocal Tract, Uniqueness in person"s voice, interspeaker and intraspeaker variation; Articulation- Manner & Place of Articulation, Phonemes, Vowel, Consonant and Glides; Phonetics in Speaker Identification, IPA (The International Phonetic Alphabets), Forensic Phonetics, Effect of context, Supra segmental (Prosodic features). Audio-enhancement, Sound Recording/Playback Devices: Analog Tape recorders, Digital recorder, Microphone types, Digital audio formats. Apex Court Judgments on Speaker Identification. Court presentation of report based on speaker identification.	Remember
FS 621.2	Explain Digital Signal Processing, A to D Conversion- Sampling, Quantization, Digital Audio Formats, Pulse Code Modulation, Coding and Decoding, Computer Representation of Speech Speaker Recognition: Principles of speaker recognition/identification, Methods on Speaker Recognition. Various approaches in Forensic Speaker Identification, Interpretation of result, Statistical interpretation of probability scale, Objective/Subjective methods, discriminating tests, closed test, open test, likelihood ratio calculation, Concept of test and error in Speaker Identification. Introduction to Pattern Recognition, Pattern Recognition application in Automatic Speaker Identification and Verification System, Different algorithm of automatic speaker identification	Understand
FS 621..3	Apply Audio Evidence Examination: Handling of audio recording evidences, Procedure for preparation of working copies, Phonetic transcription, Analysis of linguistic & phonetic characteristics, Temporal measurement, Text-dependent and text-independent speaker recognition. Instrumental	Apply
FS 621.4	Analysis of speech sample: Verbatim, Clue words, IPA marking, CSL & Linear predictive coding technique, Fourier transformation, Examination using SPID, Vocal behaviors, alcohol speech relationships. Authentication of recorded audio: Type of alterations, Auditory Examination by Critical Listening. Waveform analysis, Speech Spectrographic analysis, Magnetic developing, Optical Method.	Analyse

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FS 621.5	Compare all the aspects of video technology: Video standards, Recording formats- Analog and Digital, Introduction to video devices, Linear and Non-linear editing, Concept of video film production, Graphics and animation technique. Image perception, Colour space & representation, Storage, .	Evaluate
FS 621.6	May apply the knowledge in Image processing application. Introduction to image enhancement, Image restoration, Concept of digital water marking, Image compression, Retrieval of video files, Integrity of images, Facial image recognition. Forensic analysis of audio/video in video recording: Authentication of video recording, Visual examination technique on video frame sequence, Video image analysis- object, costumes, Facial image recognition from video frame image, Video signal analysis	Create

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Course Name: Smart Material

Course Code: PH 672

Year: SECOND

Semester: IV

Faculty Name: Dr. Narendra Kumar

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PH672.1	Define the terminology used in Biosensors	Remember
PH672.2	Discuss the features of smart materials	Understand
PH672.3	Classify the types of sensors	Analyse
PH672.4	Design sensors	Create
PH672.5	Illustrate the working of varios types of sensors	Apply
PH672.6	Compare different types of SWNTs and MWNTs, NEMs and MEMs	Evaluate

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Course Outcomes

Course Name: Electronics Laboratory

Course Code: PH651

Year: 2019-2020

Semester: I

Faculty Name: Dr. Rakhee Chaudhary

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PH651.1	Understand the origin of Quantum mechanics and its developments.	Understand
PH651.2	Study of different operators and their applications.	Apply
PH651.3	Analysis the solution of Schrodinger equation for simple problems.	Analysis
PH651.4	To evaluate generalized angular momentum, raising and lowering operators.	Evaluate

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Course Outcomes (2019-20)

Course Name: Physics of Naomaterials

Course Code: PH 631

Year: SECOND (M.Sc. Physics)

Semester: AUTUMN (2019-20)

Faculty Name: Dr Narendra Kumar

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PH631.1	List the properties and applications of nanomaterials	Remember
PH631.2	Summarize the various theories in crystallography	Understand
PH631.3	Categories the types of confinements	Analyze
PH631.4	Determine the eigen values of Quantum well, Q Wire, Q D	Apply
PH631.5	Overview the applications of CNT	Evaluate
PH631.6	Generate concepts about Photonic crystals and nanophotonics	Create

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Course Outcomes

Course Name: Statistical Physics and Thermodynamics

Course Code: PH 551

Year: FIRST (M.Sc.)

Semester: AUTUMN (2019-20)

Faculty Name: Dr. Narendra Kumar

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PH551.1	Define phase space and other terminology	Remember
PH551.2	Understand the basics of statistical measurements like random walk	Understand
PH551.3	Formulate Maxwell's equations	Create
PH551.4	Classify the three statistics	Analyze
PH551.5	Apply the various statistics to solve physical properties	Apply
PH551.6	Defend on the BE condensation and other phenomena	Evaluate

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Course Outcomes

Course Name: Mathematical Physics II

Course Code: PH 512

Year: FIRST

Semester: II (2019-20)

Faculty Name: Dr. Narendra Kumar

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PH512.1	Analyze the analcites of a function	Analyse
PH512.2	Interpret the various theorems	Understand
PH512.3	Apply these theorems to solve problems	Apply
PH512.4	Name the terminology in groups	Remember
PH512.5	Create the Fourier series	Create
PH512.6	Evaluate the integrals and by Laplace and Fourier transforms	Evaluate

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Course Outcomes (2019-20)

Course Name: Mathematical Physics I

Course Code: PH 511

Year: FIRST (M.Sc. Physics)

Semester: AUTUMN (2019-20)

Faculty Name: Dr Narendra Kumar

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PH511.1	Define the various terms in vector space	Remember
PH511.2	Understand various theorems	Understand
PH511.3	Determine the inverse matrix	Apply
PH511.4	Prove the recurrence relations	Evaluate
PH511.5	Show the generating function	Analyze
PH511.6	Create the various Polynomials	Create

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Course Name: Basics of Nano-Science and Exotic Materials

Course Code: PH 372

Year: THIRD

Semester: VI

Faculty Name: Dr. Narendra Kumar

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PH372.1	Assess the effect of dimensionality on band structure	Evaluate
PH372.2	Classify different routs for synthesis of nanomaterials	Analyse
PH372.3	Explain CNT and nanophotonics	Understand
PH372.4	Demonstrate the theory behind High Temp Superconductors	Apply
PH372.5	Give features of CMR materials	Remember
PH372.6	Build Quasicrystal structures	Create

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Course Outcomes

Course Name: Statistical Mechanics

Course Code: PH323

Year: THIRD (B.Sc. H Physics)

Semester: AUTUMN (2019-20)

Faculty Name: Dr. Narendra Kumar

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PH323.1	Remember the terminologies	Remember
PH323.2	Understand the statistical concepts	Understand
PH323.3	Formulate Black body radiation laws	Create
PH323.4	Classify the three statistics and illustrate differences	Analyze
PH323.5	Analyze the features of Fermi gas	Evaluate
PH323.6	Apply the statistical laws	Apply

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Course Outcomes

Course Name: **Physics Laboratory V**

Course Code: **PH321**

Year: III

Semester: V

Faculty Name: Dr. Manoj Mishra

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PH211-1	Formula used of experiment (Exp 1 – Exp 8)	Remember
PH211-2	Apparatus required and theory of experiment (Exp 1 – Exp 8)	Understand
PH211-3	Circuit formation and taking observation of experiment (Exp 1 – Exp 8)	Apply
PH211-4	Calculations of experiment (Exp 1 – Exp 8)	Analyze
PH211-5	Result of experiment (Exp 1 – Exp 8)	Evaluate
PH211-6	precautions of experiment (Exp 1 – Exp 8)	Apply

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List of experiments

Exp	Objective
Exp. 1	To show that the impedance of a coil of resistance R_L and self inductance L varies with frequency as $Z_{coil}=(R_L^2+4\pi^2f^2L^2)^{1/2}$ and to measure the self inductance.
Exp. 2	To study the LDR (Opto Electronics Device) characteristics.
Exp. 3	To study the Light Emitting Diode LED (Opto Electronics Device) characteristics.
Exp. 4	To study the Photo Transistor (Opto Electronics Device) characteristics.
Exp. 5	To study of material constant, temperaturecoefficient of current and planck's constant.
Exp. 6	To study the Photo Diode (Opto Electronics Device) characteristics
Exp. 7	To determine the temperature coefficient of resistance of copper wire
Exp. 8	To Determine unknown Capacitance using De Sauty's bridge bridge

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Course Outcomes

Course Name: Quantum Mechanics and Spectroscopy

Course Code: PH311

Year: 2019-2020

Semester: I

Faculty Name: Dr. Rakhee Chaudhary

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PH311.1	Understand the origin of Quantum mechanics and its developments.	Understand
PH311.2	Study of different operators and their applications.	Apply
PH311.3	Analysis the solution of Schrodinger equation for simple problems.	Analysis
PH311.4	To evaluate generalized angular momentum, raising and lowering operators.	Evaluate

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LAB Course Outcomes

Course Name: Physics Laboratory III

Course Code: PH 231

Year: SECOND (B.Sc. H /Pass)

Semester: AUTUMN (2019-20)

Faculty Name: Dr. Narendra Kumar

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PH231.1	Determine the wavelengths (monochromatic or different colours) by applying Newton's ring, Biprism, and Grating Determine the wavelength of He-Ne laser light; Planck's constant; High Resistance by leackage	Apply
PH231.2	Verify the electrically polarized light, zener diode characteristics	Analyze

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Course Outcomes

Course Name: Advanced Quantum Mechanics

Course Code: PH212

Year: 2019-2020

Semester: IV

Faculty Name: Dr. Rakhee Chaudhary

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PH212.1	To understand various transformations of curvilinear coordinates.	Understand
PH212.2	To study Dirac-delta function.	Apply
PH212.3	To analysis Four vector formulation	Analysis
PH212.4	To evaluate Differential Equations.	Evaluate
PH212.5	Fourier Analysis	Evaluate

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Course Outcomes

Course Name: Thermodynamics and Statistical Physics

Course Code: PH122

Year: First

Semester: Second

Faculty Name: Dr. Narendra Kumar

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PH122.1	define thermodynamic terminology correctly	Remember
PH 122.2	understand second law of thermodynamics and entropy	Understand
PH122.3	calculate efficiency of Carnot's cycle and entropy in various cases	Apply
PH122.4	derive Maxwell equations and its applications	Create
PH122.5	outline various types of coolings	Analyse
PH122.6	compare between statistical and thermodynamic parameters	Evaluate

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Course Outcomes

Course Name: B.Sc. PCM/(Hons Physics)

Course Code: PH 121

Year: FIRST

Semester: II (2019-20)

Faculty Name: Dr. Narendra Kumar

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PH121.1	Understand the terminology of Electrostatics and magneto-statics	Remember
PH121.2	Analyze various laws like Ampere's law, Faraday Law	Analyse
PH121 3	Apply these solve problems	Apply
PH121.4	Maxwells Equations and interpretations	Understand
PH121.5	Evaluate the characteristics of EM wave through different materials	Evaluate

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Course Outcomes

Course Name: B.Sc./ Hons (Bio)

Course Code: PH 112

Year: FIRST

Semester: II (2019-20)

Faculty Name: Dr. Narendra Kumar

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PH112.1	Analyze the wave optics	Analyse
PH112.2	Interpret the interference, diffraction and polarisation	Understand
PH112 3	Apply these solve problems	Apply
PH112.4	Name the terminology in Laser	Remember
PH112.5	Evaluate the Nuclear phenomena	Evaluate

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Course Outcomes

Course Name: Atomic & Molecular Physics and Lasers

Course Code: PH 522

Year: MSc (Physics) First

Semester: Spring

Faculty Name: Dr. Rakhee Chaudhary

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PH522.1	Describe time independent perturbation theory for degenerate and non degenerate state.,concepts and principles of lasers, YAG laser,Fiber laser and Erbium laser, systems with many electrons.	Understand
PH522.2	Explain Molecular Spectra of Diatomic molecules	Understand
PH522.3	Differentiate coupling schemes,identical particles,spectra	Understand
PH522.4	Apply time independent perturbation theory to solve various problems of quantum mechanics	Apply
PH522.5	Analyse the infrared, Raman and Electronic spectra	Analyse
PH522.6	Evaluate the term symbol for atom in a given state.	Evaluate

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Course Outcomes

Course Name: Advanced Quantum Mechanics

Course Code: PH612

Year: 2019-2020

Semester: IV

Faculty Name: Dr. Rakhi Chaudhary

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PH612.1	To understand various theories such as Time dependent perturbation theory, Fermi Golden rule, constant perturbation harmonic in time, dipole approximation, Approximation methods: W. K. B. method, Variational principle	Understand
PH612.2	To study system of identical particles and their spin and states by Coulomb repulsion and Hamiltonian of a molecule, Born-Oppenheimer approximation, outline of Heitler-London theory of the hydrogen molecule.	Apply
PH612.3	To analysis of scattering theory of particles in laboratory and phase shifts and their importance by employing partial wave method for square well; potential and a perfectly rigid sphere	Analysis
PH612.4	To evaluate of the Klein-Gordon equation and initial difficulties in interpreting its solutions, explanation of the spin of the electrons, solution for hydrogen atom in Dirac's theory, negative energy states and their qualitative explanations.	Evaluate

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Course Outcomes

Course Name: Soft Condensed Matter Physics

Course Code: PH623

Year: M.Sc. Physics II Year

Semester: Autumn Semester

Faculty Name: Dr. Rakhee Chaudhary

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
1	Apply the statistical tools used in condensed matter.	Apply
2	Understand Fluctuation induced forces and mean-field model of media to estimate physical properties of material.	Understand
3	Know the characteristic properties of Polymers, nature of conducting polymers and thermal properties of polymeric materials	Remember
4	Identify how structure/property/ processing relationships are developed and applied for different type of materials	Evaluate
5	Understand effect of rheology, various rheological parameters in processing and applications of materials.	Understand

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SCHOOL OF BUSINESS

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Course Name:	***Business Accounting***
Course Code:	AAT 233
Year:	II Year
Semester:	III Semester
Faculty Name:	Sukriti Khatri

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
TTT 233.1	Understand the theoretical basics of accounting and depreciation.	Understand
TTT 233.2	Understand the preparation of Financial Statements.	Apply
TTT 233.3	Understand the concept of sectional and self balancing system.	Apply
TTT 233.4	Understand exactly what a Joint Venture is and prepare accounts relating to the Joint Venture.	Apply
TTT 233.5	Understand the accounting of Consignments and prepare their books of accounts.	Apply
TTT 233.6	Understand the concept of Insurance claims and learn the calculation of claims in different scenarios.	Apply

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School of Management Studies

Course Outcomes

Course Name: ***Principles of Insurance***

Course Code: BC 251

Year: II Year

Semester: III Semester

Faculty Name: Mr. Sumit Kulshrestha

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
BC 251.1	Understand the concepts of risk management and its techniques mainly insurance	Remember
BC 251.2	Define principles and methods of insurances.	Understand
BC 251.3	Discuss the Products and types of life insurance and non-life insurance	Understand
BC 251.4	Apply the techniques and methods used in premium and claims calculations.	Apply
BC 251.5	Analyse the useful of insurance in contemporary environments.	Analyse
BC 251.6	Develop the products in life insurance and non-life insurance as per need recognition process.	Create

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School of Management Studies

Course Outcomes

Course Name: ***Financial Market, Institutions and Services***

Course Code: BC 341

Year: III Year

Semester: V Semester

Faculty Name: Mr. Sumit Kulshrestha

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
BC 341.1	Understand the concepts, meaning and components of financial systems.	Understand
BC 341.2	Define the functions and mechanism of financial markets in detail in India	Understand
BC 341.3	Discuss the functions and mechanisms of financial institutions in India.	Understand
BC 341.4	Discuss the functions and mechanisms of financial services in detail.	Understand
BC 341.5	Analyse the importance of financial markets, institutions and services in Financial system.	Analyse
BC 341.6	Develop the integrate model of financial system by explaining the role and importance of Financial markets, institutions and services.	Create

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SCHOOL OF BUSINESS

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Course Name:	***Financial Accounting***
Course Code:	BC 111
Year:	I Year
Semester:	I Semester
Faculty Name:	Sukriti Khatri

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
BC 111.1	Understand the theoretical basics of accounting and depreciation.	Understand
BC 111.2	Understand the preparation of Financial Statements.	Apply
BC 111.3	Understand the concept of sectional and self balancing system.	Apply
BC 111.4	Understand exactly what a Joint Venture is and prepare accounts relating to the Joint Venture.	Apply
BC 111.5	Understand the accounting of Consignments and prepare their books of accounts.	Apply
BC 111.6	Understand the concept of Insurance claims and learn the calculation of claims in different scenarios.	Apply

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Course Name	:	Business Laws
Course Code	:	BC 121
Year	:	I
Semester	:	I
Faculty Name	:	Kshitiz Jangir

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
BC 121.1	Understand the various concepts and terminologies related to law of Contract applicable in India	Understand
BC 121.2	Understand the concepts appliable in transaction of Sale of goods as per the Sale of Goods Act, 1930	Understand
BC 121.3	Learn and understand the rule applicable to Limited Liability Partnerships	Understand
BC 121.4	Learn and understand the laws related to Information Technology	Understand
BC 121.5	Understand the rights and obligations of parties involved in business contracts	Apply
BC 121.6	Understand the use of digital signature and learn the registration of LLPs	Apply

Kshitiz

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Course Outcomes

Course Name: **Microeconomics**

Course Code: BC 151

Year: I Year

Semester: I Semester

Faculty Name: Dr. Rajesh Sharma

At the end of the course, the student will be able to:

CO	CO statement	Taxonomy
BC 151.1	Understand the basic concepts related to consumer behaviour in the microeconomics	Understand
BC 151.2	Evaluate the relevance of demand and supply behaviour in the short run and long run	Evaluate
BC 151.3	Highlight the various concepts of production function and cost theory	Remember
BC 151.4	Analyse the relationship between various types of cost curves with the help of examples	Analyse
BC 151.5	Create the differences between various forms of market for with the help of relevant examples	Create
BC 151.6	Apply the cost, production, and demand supply curves to exhibit the profits or losses in different forms of markets	Apply

Dr. Rajesh Sharma

Faculty Signature

9/6/2021

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Course Outcomes

Course Name: Human Resource Management

Course Code: BC 231

Year: II

Semester: III

Faculty Name: Dr. Sunita Verma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BC 231.1	Understand the concept of human resource management and its relevance in organizations.	Understand
BC 231.2	Know formalize, design and evaluate various recruitment, placement, selection and interviewing Policies.	Analyse
BC 231.3	Realize the importance of training and development of employees and develop and design a training and development program	Apply
BC 231.4	Describe basic concepts in Performance Management and Appraisal, Introduction to Appraising performance, appraising performance: problems and issues	Apply
BC 231.5	Rational design of compensation and salary administration	Apply
BC 231.6	Handle employee issues and evaluate the new trends in HRM	Analyse

Signature of the faculty

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Course Name:	***Cost Accounting***
Course Code:	BC 241
Year:	II Year
Semester:	III Semester
Faculty Name:	Sukriti Khatri

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
BC 241.1	Describe the basics of Cost Accounting.	Understand
BC 241.2	Analyse and evaluate information for cost ascertainment using Unit Cost Sheet and Job Cost Sheet.	Analyse
BC 241.3	Summarize process cost accounting and prepare a process cost account.	Apply
BC 241.4	Apply standards and budgets for planning and controlling purposes.	Apply
BC 241.5	Learn how costs are analysed for different product costing contexts such as Contact or operating costing.	Apply
BC 241.6	Demonstrate how materials, labor and overhead costs are added to a product at each stage of the production cycle.	Apply

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Course Name:	***Financial Management***
Course Code:	BC 321
Year:	III Year
Semester:	V Semester
Faculty Name:	Sukriti Khatri

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
BC 321.1	Understand the fundamental financial concepts.	Understand
BC 321.2	Apply concepts like time value of money and CAPM.	Apply
BC 321.3	Analyse the complexities associated with management of cost of funds in the capital Structure	Apply
BC 321.4	Understand and apply the various Dividend decision Models.	Apply
BC 321.5	Apply capital budgeting projects using different methods.	Apply
BC 321.6	Understand and apply the concepts of working capital decision making.	Apply

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Course Outcomes

Course Name: ***Business Statistics***

Course Code: BC 131

Year: I Year

Semester: I Semester

Faculty Name: Dr. Manish Didwania

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
BC 131.1	Describe and discuss the key terminology, concepts tools and techniques used in business statistical analysis along with collection, classification and tabulation of data.	Understand
BC 131.2	Critically evaluate the underlying assumptions of analysis tools in different fields with respect to central tendency.	Apply
BC 131.3	Understand and critically discuss the issues surroundings related to deviations in data with respect to measures of dispersion.	Apply
BC 131.4	Discuss critically the uses of correlation analysis and its limitations in statistical analysis.	Apply
BC 131.5	Solve a range of problems using the techniques covered in regression analysis.	Apply
BC 131.6	Conduct basic statistical analysis of data with respect to Index Numbers as cost-of-living index.	Evaluate

Faculty Signature
Manish Didwania

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Course Outcomes

Course Name: ***Direct Tax Laws***

Course Code: BC 211

Year: II Year

Semester: III Semester

Faculty Name: Dr. Manish Didwania

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
BC 211.1	Discuss the basic principles underlying the direct Taxation Statutes and knowledge about determining Residential status.	Understand
BC 211.2	Identify and analyse the computation and regulation about the Income from salaries and House property.	Apply
BC 211.3	Identify and analyse the computation and regulation about the Income from Business & Profession and Capital Gain.	Apply
BC 211.4	To know how to compute Income from Capital Gain and about the adjustments of Deemed Incomes and Set off and Carry forward of losses.	Apply
BC 211.5	To know about the deductions from Gross Total Income and determination of Total Income.	Apply
BC 211.6	Evaluate and assessment final tax liability payable or refund for the relevant total income for Individual, HUF and Firm.	Evaluate

Faculty Signature
Manish Didwania

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Course Outcomes

Course Name: ***Principles of Marketing***

Course Code: BC 311

Year: BCOM(H) III Year

Semester: Autumn Semester, 2019-20

Faculty Name: Dr. Ashish Kumar Sharma

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
BC 311.1	Describe the distribution and promotion strategies adopted by marketing firms	Remember
BC 311.2	Explain the basic concepts of marketing management	Understand
BC 311.3	Examine the importance of buyer behaviour and segmentation, targeting and positioning while formulating marketing strategy	Apply
BC 311.4	Analyse the various elements of marketing environment	Analyse
BC 311.5	Classify the current product and pricing strategies of existing firms	Evaluate
BC 311.6	Design the marketing strategy for a new business venture	Create

Faculty Name – Dr. Ashish Kumar Sharma

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Course Outcomes

Course Name: ***Operation Research***

Course Code: BC 351

Year: III Year

Semester: VI Semester

Faculty Name: Dr. Manish Didwania

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
BC 351.1	Introduction, Scope and Limitation about Operation Research. Introduction of different appropriate techniques with its use.	Understand
BC 351.2	Define and formulation of LPP, Transportation problems and Assignment Model and derive solution by using appropriate techniques of these models.	Apply
BC 351.3	Determination of results in various situational problems with the help of Queuing model and Game model by using its different techniques.	Apply
BC 351.4	Develop skills to analyse decision making problems and Replacement Problems arising from a wide range of applications.	Apply
BC 351.5	Develop skills to analyse and solve simulation and network models arising from a wide range of applications.	Apply
BC 351.6	Effectively communicate ideas, explain procedures and interpret results and solutions in written and electronic forms to different audiences.	Evaluate

Faculty Signature
Manish Didwania

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Course Outcomes

Course Name: ***Entrepreneurship***

Course Code: BC 361

Year: BCOM(H) III Year

Semester: Autumn Semester, 2019-20

Faculty Name: Dr. Ashish Kumar Sharma

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
BC 361.1	Identify the prominent businessmen of India and describe their business acumen	Remember
BC 361.2	Explain the basic concepts of entrepreneur, entrepreneurship and enterprise	Understand
BC 361.3	Determine the role of SSI's in the development of the nation and their underlying problems	Apply
BC 361.4	Analyse the functioning of EDP organisations	Analyse
BC 361.5	Assess the process of identifying a new business project and its feasibility	Evaluate
BC 361.6	Design a business plan for a new venture	Create

Faculty Name – Dr. Ashish Kumar Sharma

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Course Name:	***Management Accounting***
Course Code:	BM 231
Year:	II Year
Semester:	III Semester
Faculty Name:	Sukriti Khatri

At the end of the course the student will be able to:

CO	CO statement	Taxonomy
BM 231.1	Explain the primary purposes of management accounting namely, its tools and techniques.	Understand
BM 231.2	Explain how Management costing is different from other forms of costing, cost concepts and cost behaviours used in Management Costing.	Understand
BM 231.3	Apply standards and budgets for planning and controlling purposes.	Apply
BM 231.4	Apply management ideas and practices in making short term and long term decisions.	Apply
BM 231.5	Asses relativity of cost, volume and profit , and use CVP analysis as a planning and decision making aid.	Apply
BM 231.6	Explain the concept and significance of Responsibility Accounting.	Understand

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Course Outcomes

Course Name: Human Resource Management I

Course Code: BM 241

Year: II

Semester: III

Faculty Name: Dr. Sunita Verma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BM 241.1	Understand the concept of human resource management and its relevance in organizations.	Understand
BM 241.2	Know formalize, design and evaluate various recruitment, placement, selection and interviewing Policies.	Analyse
BM 241.3	Realize the importance of training and development of employees and develop and design a training and development program	Apply
BM 241.4	Describe basic concepts in Performance Management and Appraisal, Introduction to Appraising performance, appraising performance: problems and issues	Apply
BM 241.5	Rational design of compensation and salary administration	Apply

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