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Course Outcomes

Course Name: Public Health Nutrition

Course Code: FN 611

Year: 2019-2020

Semester: M.Sc. F&N, (Third semester)

Faculty Name: Ms. Poornima Saraswat

Department: Biosciences, SLAS

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FN 611.1	Basic concepts of public nutrition	Remember
FN 611.2	To understand Nutrition during life span.	Understand
FN 611.3	Compare the nutritional status and scope in emergency situations.	Evaluate
FN 611.4	Explain the role and importance of nutrition w.r.t interventions. (Health and food based)	Understand
FN 611.5	Requirements of health economics	Understand
FN 611.6	Build concept of Information Education and communication.	Apply

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Course Outcomes

Course Name: **Human Nutrition**

Course Code: **FN 531**

Year: **2019-2020**

Semester: **M.Sc. F&N, (First semester)**

Faculty Name: **Ms. Poornima Saraswat**

Department: **Biosciences, SLAS**

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FN 531.1	Basic concepts of energy and functions of macronutrients.	Remember
FN 531.2	Describe the contents and properties of nutritional biochemistry elements such as Carbohydrates, Proteins, Fats, vitamins and minerals with their dynamic action and functions.	Understand
FN 531.3	Compare the dietary requirements and their pathways.	Evaluate
FN 531.4	Explain the role and importance of nutrition w.r.t deficiency and interactions.	Understand
FN 531.5	Requirements of non nutritive components in health effects	Understand
FN 531.6	Build concept of nutrition in gene expression and nutrition management.	Apply

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Course Outcomes

Course Name: **Nutritional Laboratory-III**

Course Code: **FN 352**

Year: **2019-2020**

Semester: **B.Sc. (H) F&N, (Sixth semester)**

Faculty Name: **Ms. Poornima Saraswat**

Department: **Biosciences, SLAS**

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FN 352.1	To learn how to calculate BMI and record anthropometric data.	Remember
FN 352.2	To learn to design food models with innovative ingredients	Understand
FN 352.3	To study the role of sugar concentration with emulsifying/solidifying agent in jams affecting its viscosity.	Evaluate
FN 352.4	How to estimate Nutritional profile in food sample and conduct sensory analysis as per hedonic scale	Understand
FN 352.5	How to evaluate food quality and recognition thresholds of flavours.	Understand
FN 352.6	How to estimate the enhancing appetite foods on a hunger scale.	Apply

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Course Outcomes

Course Name: **Nutritional Laboratory-II**

Course Code: **FN 331**

Year: **2019-2020**

Semester: **B.Sc. (H) F&N, (Fifth semester)**

Faculty Name: **Ms. Poornima Saraswat**

Department: **Biosciences, SLAS**

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FN 331.1	Estimation of starch and fat qualitatively	Remember, Apply
FN 331.2	Preservation, antioxidation effect and properties of cheese variation from citric acid and acetic acid on diced fruits and milk.	Understand
FN 331.3	To study the role of starch and gluten in elasticity of wheat dough.	Evaluate
FN 331.4	Processing of coffee creates different flavours.	Understand
FN 331.5	To study protein denaturation effect.	Understand
FN 331.6	Isolation and quantification of pectin from fruits.	Apply

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Course Outcomes

Course Name: **Nutritional Laboratory-I**

Course Code: **FN 242**

Year: **2019-2020**

Semester: **B.Sc. (H) F&N, (Fourth semester)**

Faculty Name: **Ms. Poornima Saraswat**

Department: **Biosciences, SLAS**

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FN 242.1	To learn how to calculate BMI and record anthropometric data.	Remember
FN 242.2	Describe public nutrition topics in form of pamphlets, poster, slogans and advertisement that can impact common public.	Understand
FN 242.3	To study the role of sugar concentration with emulsifying/solidifying agent in jams affecting its viscosity.	Evaluate
FN 242.4	How to estimate total protein, type and content of fat in food sample through lowry and gravimetric method respectively.	Understand
FN 242.5	How to estimate total carbohydrates in food sample by DNS method.	Understand
FN 242.6	Build concept of types of protein present in milk and prepare two types of cheese with different procedures- By adding acetic acid and Rennin respectively. Compare the two cheese structures formed.	Apply

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Course Outcomes

Course Name: **Family Nutrition**

Course Code: **FN 221**

Year: **2019-2020**

Semester: **B.Sc. (H) F&N, (Third semester)**

Faculty Name: **Ms. Poornima Saraswat**

Department: **Biosciences, SLAS**

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FN 221.1	Define family nutrition and elaborate its applications on energy systems.	Remember
FN 221.2	Describe the contents and dietary requirements according to different stages of life.	Understand
FN 221.3	Compare and understand nutritional requirement and RDA for different age groups.	Evaluate
FN 221.4	Factors influencing food intake, Dietary habits and nutritional disorders.	Understand
FN 221.5	Additional nutritional requirements in pregnancy, lactation and old age.	Understand
FN 221.6	Dietary requirements for the family and concept of malnutrition assessment.	Apply

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Course Outcomes

Course Name: **Public Health Nutrition**

Course Code: **FN 212**

Year: **2019-2020**

Semester: **B.Sc. (H) F&N, (Fourth semester)**

Faculty Name: **Ms. Poornima Saraswat**

Department: **Biosciences, SLAS**

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FN 212.1	Define Public Health and nutrition and elaborate its applications and tools	Remember
FN 212.2	Describe the contents and properties of public health nutrition prospects	Understand
FN 212.3	Compare the types and structure of Indian Public health system.	Evaluate
FN 212.4	Explain the role and importance of Public health nutrition, food security and its policies in India	Understand
FN 212.5	Discuss health care delivery system and primary health care.	Understand
FN 212.6	Build concept of public nutrition according to dietary patterns, nutrition transitions and socio economic factors of food security.	Apply

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Course Outcomes

Course Name: **Nutrition through life**

Course Code: **FN 121**

Year: Autumn

Semester: **B.Sc. (H) F&N, (First semester)**

Faculty Name: **Ms. Poornima Saraswat**

Department: **Biosciences, SLAS**

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FN 121.1	Principles of meal planning:	Understand
FN 121.2	Nutrient requirements: Definition, RDA (Recent)	Remember
FN 121.3	Compare and understand nutritional requirement and RDA for different age groups.	Evaluate
FN 121.4	Factors influencing food intake, Dietary habits and nutritional disorders.	Understand
FN 121.5	Lactation physiology	Understand
FN 121.6	nutritional concerns and healthy food choices	Apply

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Course Outcomes

Course Name: **Principle of Nutrition**

Course Code: **FN 111**

Year: **Autumn**

Semester: **B.Sc. (H) F&N, (First semester)**

Faculty Name: **Ms. Poornima Saraswat**

Department: **Biosciences, SLAS**

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FN 111.1	Understanding the dietary pattern for Indian foods	Understand
FN 111.2	Nutrition and Food Science – Definition, history, RDA (Recent)	Remember
FN 111.3	Compare and understand nutritional requirement and RDA for different age groups.	Evaluate
FN 111.4	Factors influencing food intake, Dietary habits and nutritional disorders.	Understand
FN 111.5	Macronutrients.	Understand
FN 111.6	Food processing technologies	Apply

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Course Outcomes

Course Name: **Nutritional Biochemistry**

Course Code: **BC 522**

Year: **2019-2020**

Semester: **M.Sc. F&N, (Second semester)**

Faculty Name: **Ms. Poornima Saraswat**

Department: **Biosciences, SLAS**

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BC 522.1	Basic concepts and functions of nutrition.	Remember
BC 522.2	Describe the contents and properties of nutritional biochemistry elements such as Carbohydrates, Proteins, Fats, vitamins and minerals with their dynamic action and functions.	Understand
BC 522.3	Compare the dietary requirements and their pathways.	Evaluate
BC 522.4	Explain the role and importance of nutrition w.r.t Malnutrition.	Understand
BC 522.5	Requirements of nutrition in different physiological states.	Understand
BC 522.6	Build concept of nutrition in starvation and obesity and role of metabolism.	Apply

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Course Outcomes

Course Name: **Nutritional Biochemistry and Clinical**

Course Code: **BC 311**

Year: ~~2020-2021~~ 2019-20

Semester: **B.Sc. (H) F&N, (Fifth semester)**

Faculty Name: **Ms. Poornima Saraswat**

Department: **Biosciences, SLAS**

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BC 311.1	Define basic concepts of nutritional Biochemistry	Remember
BC 311.2	Describe Micro and Macronutrients and their functions.	Understand
BC 311.3	Compare energy concept and calorific value of food.	Evaluate
BC 311.4	Explain the role clinical biochemistry in diagnosis and its scope.	Understand
BC 311.5	Discuss the types of biological samples collection and factors affecting the collection and analysis.	Understand and apply
BC 311.6	Build concept of diagnostic enzymology.	Apply

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Course Outcomes

Course Name: Introduction to Sociology-I

Course Code: SO 111

Year: First

Semester: Autumn

Faculty Name: DR. RAMESH CHANDRA NAYAK

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
SO 111.1	Explain the meaning, nature and scope of sociology-formalistic and synthetic school	Understand
SO 111.2	Remember the relationship of sociology with other social sciences	Remember
SO 111.3	Analyze Society, Community and Social Group	Analyze
SO 111.4	Understand Status and Role	Understand
SO 111.5	understand the meaning, agencies and theories of socialization	Understand
SO 111.6	Evaluate the meaning and characteristics of culture, theory of cultural lag, civilization, interrelationship and distinction between culture and civilization	Remember

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Course Outcomes

Course Name: Social Thinkers-I

Course Code: SO 121

Year: First

Semester: Autumn

Faculty Name: DR. RAMESH CHANDRA NAYAK

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
SO 121.1	Explicate positivism and the law of three stages	Analyze
SO 121.2	Expound social statics and social dynamics	Understand
SO 121.3	Examine the evolutionary doctrine	Analyze
SO 121.4	Explain the theory of organic analogy	Understand
SO 121.5	Discuss the theories of social action and AGIL	Understand
SO 121.6	Remember the pattern variables	Remember

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Course Outcomes

Course Name: Introduction to Sociology-I

Course Code: SO131

Year: First

Semester: Autumn

Faculty Name: DR. RAMESH CHANDRA NAYAK

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
SO131.1	Concept, emergence, nature and scope of sociology-Formalistic and Synthetic School	Apply
SO131.2	Alex Inkel s approach to the subject matter of sociology.	Understand
SO131.3	Relation of Sociology with Psychology, History, Economics, Political Science	Understand
SO131.4	The Concepts of Society and Community and difference between them	Understand
SO131.5	The Concepts of Status, Role and socialization and Individual and society interrelationships	Apply
SO131.6	cultural and Civilization	Understand

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Course Outcomes

Course Name: Introduction to Sociology-II

Course Code: SO132

Year: First

Semester: Spring

Faculty Name: DR. RAMESH CHANDRA NAYAK

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
SO132.1	Family-Concept, characteristics, functions, types, recent changes in the family system	Apply
SO132.2	Marriage-Concept, causes, characteristics, types-monogamy and polygamy.	Understand
SO132.3	Social Stratification-Concept, attributes, bases and theories-Marxian, Weberian and Functionalistic	Understand
SO132.4	Social Stratification-M.M.Tumins criticism, Social Mobility-concept and types	Understand
SO132.5	Social Control-Concept, nature, purposes	Apply
SO132.6	Social Control-Agencies of social control-Formal and informal.	Understand

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Course Outcomes

Course Name: Classical Thought-I

Course Code: SO 141

Year: First

Semester: Autumn

Faculty Name: DR. RAMESH CHANDRA NAYAK

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
SO 141.1	Explicate Auguste Comte's intellectual background, law of three stages and positivism	Analyze
SO 141.2	Discuss the hierarchy of sciences, social statics and dynamics	Remember
SO 141.3	Expound Herbert Spencer's intellectual background, the evolutionary doctrine	Understand
SO 141.4	Explain the theory of organic analogy and social Darwinism	Evaluate
SO 141.5	Discuss Vilfredo Pareto's intellectual background, residues and derivations	Understand
SO 141.6	Understand logical and non-logical actions and the circulation of élites	Analyze

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Course Outcomes

Course Name: Classical Thought-II

Course Code: SO 142

Year:First

Semester: Spring

Faculty Name: DR. RAMESH CHANDRA NAYAK

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
SO 142.1	Describe Historical Materialism	Understand
SO 142.2	Explain Class and Theory of Class Struggle	Understand
SO 142.3	Examine Social Action and Ideal Type	Apply
SO 142.4	interpret Protestant Ethics and Spirit of Capitalism	Understand
SO 142.5	Illustrate Social Fact, Suicide	Apply
SO 142.6	Examine Division of Labour in society	Apply

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Course Outcomes

Course Name: Methodology of Social Research-I

Course Code: SO211

Year: Second

Semester: Autumn

Faculty Name: DR. RAMESH CHANDRA NAYAK

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
SO211.1	Meaning, Scope and Significance of Social Research, Scientific Method, Difference between Social Research and Social Survey	Understand
SO211.2	Meaning and Purpose of Research Design	Understand
SO211.3	Types - Exploratory, Descriptive and Experimental Research Design	Apply
SO211.4	Meaning and Characteristics of Sampling	Understand
SO211.5	Steps in Sampling Design, Types of Sampling - Random, Stratified, Cluster and Multi-stage Sampling	Apply
SO211.6	Meaning and Procedure of Hypothesis, Types of Hypothesis	Apply

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Course Outcomes

Course Name: Methodology of Social Research-II

Course Code: SO212

Year: Second

Semester: Spring

Faculty Name: DR. RAMESH CHANDRA NAYAK

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
SO212.1	Describe Observation and its Characteristics	Understand
SO212.2	Use Participant, Non- participant and Quasi- participant Observation	Apply
SO212.3	Summarize the Meaning, Objectives of Interview method	Understand
SO212.4	Examine the Techniques of Interview Method and its Types	Apply
SO212.5	Describe interview and examine its Construction and Application	Apply
SO212.6	Illustrate Tabulation, Interpretation of Data and Steps in writing Report	Apply

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Course Outcomes

Course Name: Sociological Theories-I

Course Code: SO221

Year: Second

Semester: Autumn

Faculty Name: DR. RAMESH CHANDRA NAYAK

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
SO221.1	Radcliffe-Brown's idea of Social Structure	Apply
SO221.2	Malinowski's Functional Analysis	Apply
SO221.3	Empirical Functionalism-Merton's Theory of Middle Range, Merton's critique and reformulation of Functional analysis	Understand
SO221.4	Marxian Conflict Theory	Understand
SO221.5	Coser's Functional Analysis of Conflict	Apply
SO221.6	Sociology of Knowledge of Karl Mannheim	Understand

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Course Outcomes

Course Name: Sociological Theories-II

Course Code: SO222

Year: FIRST

Semester: SPRING

Faculty Name: DR. RAMESH CHANDRA NAYAK

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
SO222.1	Apply A. Schutz's Phenomenological approach	Apply
SO222.2	Illustrate H.Ganfinkel's Ethnomethodology	Apply
SO222.3	Describe G.H. Mead's Symbolic Interactionism	Understand
SO222.4	Explain H. Blumer'sSymbolic Interactionism	Understand
SO222.5	Apply the Verstehen Approach	Apply
SO222.6	Discuss Homans' Psychological Exchange Perspective and Blau's Structural Exchange Theory.	Understand

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Course Outcomes

Course Name: Gender and Society-II

Course Code: SO312

Year: Third

Semester:Spring

Faculty Name: DR. RAMESH CHANDRA NAYAK

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
SO312.1	Describe the status of women in India during pre-colonial, colonial and post-colonial periods	Remember
SO312.2	Describe the Sex ratio in India with emphasis on Child Sex ratio.	Remember
SO312.3	interpret the Marginalization of Women and Sexual Division of Labour	Understand
SO312.4	Examine critically the Reservation for Women, Marriage, Dowry and right to Property	Apply
SO312.5	Examine Women's Health and Education	Apply
SO312.6	Interpret Domestic Violence	Understand

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Course Outcomes

Course Name: Indian Society-I

Course Code: SO321

Year: Third

Semester: AUTUMN

Faculty Name: DR. RAMESH CHANDRA NAYAK

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
SO321.1	Sanskritisation, Westernisation and Modernisation	Understand
SO321.2	Hindu Marriage- a sacrament, Types and changing patterns; Muslim Marriage- a contact, Types and changing patterns	Remember
SO321.3	Divorce among Muslims, Differences between Hindu and Muslim Marriages.	Understand
SO321.4	Meaning and Types of Kinship, Kinship Behaviour and Usages, Classificatory Terminology of Kinship	Understand
SO321.5	Origin and changing dimensions of Varna and Jati	Apply
SO321.6	Functions, Roles and Changes in Jajmani System	Understand

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Course Outcomes

Course Name: Society in India-II

Course Code: SO322

Year: SECOND

Semester: AUTUMN

Faculty Name: DR. RAMESH CHANDRA NAYAK

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
SO322.1	Describe Ashramas and Purusharthas	Understand
SO322.2	Describe Religious, Linguistic and Religious diversity in India	Remember
SO322.3	Interpret Communalism, Regionalism, Casteism and Regionalism as the emerging social Problems in India	Understand
SO322.4	Explain Tribal Religious beliefs and practices in India	Understand
SO322.5	Illustrate Tribal problems in India	Apply
SO322.6	Describe Population explosion and its causes, remedies, Population Policy and Sustainable Development	Understand

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Course Outcomes

Course Name: Principles of Criticism I

Course Code: EL661

Year: MA Second

Semester: Third

Faculty Name: Dr Shruti Soni

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
EL661.1	Deep Understanding of English Literary Criticism.	Remember
EL661.2	Widens the knowledge of literary and focuses on their importance	Evaluate
EL661.3	Ingrains the mind towards creative writing, appreciation, critical thinking and critical analysis	Remember
EL661.4	Accentuates expression of thoughts and views for critical appreciation and judgmental reviews	Applicable
EL661.5	Deep understanding of all the literary ages	Understand
EL661.6	Provides an insight of practical criticism	Analyze

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Course Outcomes

Course Name: Creative & Technical Writing

Course Code: EL592

Year: MA SECOND

Semester: II

Faculty Name: Dr Shruti Soni

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
EL592.1	Create, evaluate and use English language teaching materials.	Evaluate
EL592.2	To understand the foundation of English as a language	Understand
EL592.3	To get acquainted with the new literary techniques for the development of academic and creative writing	Understand
EL592.4	Build a Cross-cultural understanding and confidence in using the second language	Understand
EL592.5	To develop and analyze the literal and critical tastes	Applicable
EL592.6	To channelize energy through soft skills and Value orientation	Applicable

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Course Outcomes

Course Name: New Literature in English

Course Code: EL321

Year: BA Third

Semester: Fifth

Faculty Name: Dr Shruti Soni

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
EL321.1	To understand the development of literature	Understand
EL321.2	To understand the chief characteristics of New Literature in English	Understand
EL321.3	To get acquainted with the new literary figures in the world of English Literature	Remember
EL321.4	To analyze the poems of the times	Analyze
EL321.5	Can interpret texts in relation to their historical and cultural contexts	Evaluate
EL321.6	Comprehend the difference of a life lived in a postcolonial era and the life lived in a c colonial context.	Understand

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Course Outcomes

Course Name: Literary Criticism

Course Code: EL322

Year: BA Third

Semester: VI

Faculty Name: Dr Shruti Soni

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
EL322.1	Introduces to the basics of Literary Criticism.	Remember
EL332.2	Widens the knowledge of literary criticism of Aristotle age	Evaluate
EL332.3	Ingrains the mind towards creative writing, appreciation, critical thinking and critical analysis	Understand
EL322.4	Accentuates expression of thoughts and views for critical appreciation and judgmental reviews	Applicable
EL322.5	Deep understanding of Literary criticism of all ages	Understand
EL322.6	Provides an insight of practical criticism	Analyze

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Course Outcomes

Course Name: English Fiction I

Course Code: EL221

Year: BA Second

Semester: II

Faculty Name: Dr Shruti Soni

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
EL221.1	Exposed to different cultures, myths, and histories of various nations through fiction.	Understand
EL221.2	To analyze social, political, and cultural backgrounds in the context of the prescribed novels	Analyze
EL221.3	Develop the ability and interest to read literary prose and fiction on their own.	Applicable
EL221.4	To evaluate how society and culture played a significant role in the lives and career of the writers of the age	Evaluate
EL221.5	To understand the Indian intricacies regarding love, family, relationship, hatred etc.	Understand
EL221.6	Receive creative acumen and will be nourished by the scintillating stories and a sense of inclination towards literary sensibility.	Create

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Course Outcomes

Course Name: Modern English Grammar and Usage

Course Code: EL551

Year: MA First

Semester: Autumn 19-20

Faculty Name: Dr Shruti Soni

CO Number	Course Outcome statement At the completion of the course, student will be able:	Taxonomy Level
EL551.1	Create, evaluate and use English language teaching materials.	Evaluate
EL551.2	To understand the foundation of English as a language	Understand
EL551.3	To get acquainted with the new literary techniques for the development of academic and creative writing	Remember
EL551.4	Build and analyze the Cross-cultural understanding and confidence in using the second language	Analyze
EL551.5	To develop the literal and critical tastes	Applicable
EL551.6	Kindles creative mind with innovative thoughts	Applicable

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Course Outcomes

Course Name: Women Studies

Course Code: EL 692

Year: Second

Semester: Fourth

Faculty Name: Dr. Priti Vyas

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
EL 692.1	Study a selection of novels and short stories that focus on women's lives.	Remember
EL 692.2	Examine how women's texts pay attention to the historical and political conditions of their times.	Analyse
EL 692.3	Know some of the developments, themes, and narrative strategies of women's writings.	Understand
EL 692.4	Appreciate the ways in which the feminist writings embody a politics of resistance.	Analyse
EL 692.5	Reflect on what it means to be a woman and feminist from gender, racial, class, and national perspectives.	Evaluate
EL 692.6	Study gender based social inequities effectively to suggest solutions based on feminist methodologies.	Create

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Course Outcomes

Course Name: Translation Studies

Course Code: EL 691

Year: Second

Semester: First

Faculty Name: Dr. Priti Vyas

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
EL 691.1	Developing an understanding of the Origin and Development of Translation Studies in India and Abroad.	Remember
EL 691.2	Understanding the different types of translations	Understand
EL 691.3	Understanding & Evaluating the Interrelationship of Lan. & Culture.	Evaluate
EL 691.4	Assessing the Concepts of Translators' Invisibility and Equivalence	Evaluate
EL 691.5	Apply the different concepts of Translation in Self-translation	Apply
EL 691.6	Develop an informed appreciation of different philosophical theories of translation	Understand

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Course Outcomes

Course Name: Literature and Society-II

Course Code: EL 672

Year: Second

Semester: Fourth

Faculty Name: Dr. Priti Vyas

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
EL 672.1	Realize the importance of literature in fostering social reflection.	Remember
EL 672.2	Comprehension of literary traditions and conventions of the Victorian Society.	Remember
EL 672.3	Discuss and analyse the prominent Victorian movements like Oxford and Naughty Nineties.	Understand
EL 672.4	Examine the ways in which literary texts address the past and changing social norms during the Victorian Era.	Evaluate
EL 672.5	Appreciate the Women's Liberation Movement to identify major influences within key historic feminist movements.	Understand
EL 672.6	Identify, analyze, interpret and describe the critical ideas, values, and themes that appear in the literary texts of the Victorian Era.	Understand

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Course Outcomes

Course Name: Literature and Society-I

Course Code: EL 671

Year: Second

Semester: Third

Faculty Name: Dr. Priti Vyas

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
EL 671.1	Realize the importance of literature in fostering social reflection.	Remember
EL 671.2	Comprehension of literary, social, political and economic traditions and conventions of the Anglo Saxon and Anglo Normans.	Remember
EL 671.3	Discuss and analyse the prominent aspects of Medieval Life & Wars	Understand
EL 671.4	Examine the ways in which literary texts address the past and changing social norms in English Society.	Evaluate
EL 671.5	Appreciate the emergence of Reformation & Renaissance in England.	Understand
EL 671.6	Discussion & interpretation of different literary trends, social & economic movements from Jacobeans to Victorians	Understand

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Course Outcomes

Course Name: Indian Writing in Translation

Course Code: EL 613

Year: Second

Semester: First

Faculty Name: Dr. Priti Vyas

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
EL 613.1	Developing an understanding of the Origin and Development of Translation Studies in India.	Understand
EL 613.2	Understanding the different types of translations	Understand
EL 613.3	Know some of the developments, themes, and narrative strategies of Indian writings in English.	Remember
EL 613.4	Appreciate the ways in which the Indian Writing in English embodies the diversity of the nation.	Apply
EL 613.5	Reflect on what it means to be an Indian from gender, racial, class, and national perspectives.	Analyse
EL 613.6	Learn to read, analyze and appreciate poetry, drama, novel and essays critically	Evaluate

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Course Outcomes

Course Name: **Indian Writing in English**

Course Code: EL 591

Year: First

Semester: First

Faculty Name: Dr. Priti Vyas

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
EL 591.1	Study a selection of novels which focuses on the understanding of Colonialism and Postcolonialism	Understand
EL 591.2	Examine how Indian Writing in English explores various social, economic, historical and political conditions.	Analyse
EL 591.3	Know some of the developments, themes, and narrative strategies of Indian writings in English.	Understand
EL 591.4	Appreciate the ways in which the Indian Writing in English embodies the diversity of the nation.	Analyse
EL 591.5	Reflect on what it means to be an Indian from gender, racial, class, and national perspectives.	Evaluate
EL 591.6	Learn to read, analyze and appreciate poetry, drama, novel and essays critically	Understand

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Course Outcomes

Course Name: Introduction to Linguistics and Phonetics

Course Code: EL 562

Year: First

Semester: Second

Faculty Name: Dr. Priti Vyas

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
EL 562.1	Comprehend the relationship between written and spoken language.	Understand
EL 562.2	Gain an appreciation of the different fields of linguistics and its main sub-fields.	Remember
EL 562.3	Use the International Phonetic Alphabets (IPA) to transcribe English phonetically.	Apply
EL 562.4	Comprehend the characteristic features of human language and their social and cultural effects on communication.	Understand
EL 562.5	Perform phonemic and morphological analysis to determine the phonemes and allophones of English language.	Analyse
EL 562.6	Have an understanding of the core components of linguistics like phonology, morphology, syntax and semantics.	Remember

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Course Outcomes

Course Name: Comparative Literature

Course Code: EL 514

Year: First

Semester: Second

Faculty Name: Dr. Priti Vyas

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
EL 514.1	Have knowledge of different methods of analyzing literature.	Remember
EL 514.2	Analyse the role of translation studies in comparative literature.	Analyse
EL 514.3	Realize the importance of reading literary texts in their cultural context.	Understand
EL 514.4	Demonstrate a greater understanding of different literary genres and their functions.	Understand
EL 514.5	Have a deeper and better understanding of the interdisciplinarity of comparative Literature.	Evaluate
EL 514.6	Develop an informed appreciation of cross-cultural interconnections and Historicity of literary outputs.	Develop

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Course Outcomes

Course Name: Twentieth Century English Literature-II

Course Code: EL 362

Year: Third

Semester: Sixth

Faculty Name: Dr. Priti Vyas

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
EL 362.1	Learn to read, analyze and appreciate poetry critically.	Understand
EL 362.2	Discuss the significant figures and events of the modern period.	Understand
EL 362.3	Have an understanding of the major Literary and Cultural Trends in poetry and novel.	Remember
EL 362.4	Recognize the rhythms, metrics and other musical aspects of poetry.	Evaluate
EL 362.5	Have an understanding of the circumstances that shape the processes of literary production during the twentieth century.	Analyse
EL 362.6	Know about the diverse literary devices and strategies employed by the modern writers.	Evaluate

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Course Outcomes

Course Name: Twentieth Century English Literature-I

Course Code: EL 361

Year: Third

Semester: Fifth

Faculty Name: Dr. Priti Vyas

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
EL 361.1	Learn to read, analyze and appreciate poetry and drama critically.	Understand
EL 361.2	Discuss the significant figures and events of the period.	Understand
EL 361.3	Have an understanding of the major Literary and Cultural Trends in poetry and drama.	Remember
EL 361.4	Recognize the rhythms, metrics and other literary aspects of poetry and drama.	Analyse
EL 361.5	Have an understanding of the circumstances that shape the processes of literary production during the twentieth century.	Understand
EL 361.6	Know about the diverse poetic devices and strategies employed by the poets and dramatist.	Evaluate

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Course Outcomes

Course Name: Victorian Literature

Course Code: EL 352

Year: First

Semester: Second

Faculty Name: Dr. Priti Vyas

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
EL 352.1	Recognize the rhythms, metrics and other musical aspects of poetry.	Evaluate
EL 352.2	Know about the diverse literary devices and strategies employed by the Victorian writers.	Evaluate
EL 352.3	Explore the entire range of human experience through novels as a literary form.	Analyse
EL 352.4	Learn to read, analyze and appreciate poetry critically.	Understand
EL 352.5	Discuss the significant figures and events of the Victorian period.	Understand
EL 352.6	Have an understanding of the major Literary and Cultural Trends in of Victorian poetry and novel.	Remember

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Course Outcomes

Course Name: English Fiction-II

Course Code: EL 222

Year: Second

Semester: Fourth

Faculty Name: Dr. Priti Vyas

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
EL 222.1	Analyze novel as a form of literary expression.	Analyse
EL 222.2	Develop an appreciation for the art and craft of Fiction.	Create
EL 222.3	Utilize close reading as a primary skill of literary analysis.	Apply
EL 222.4	Develop critical thinking and imagination through long fiction.	Create
EL 222.5	Know how to read both formal and thematic aspects of fiction in relationship to larger cultural and historical movements.	Remember
EL 222.6	Learn human values and the behavioral patterns from great works of art to develop the ability of understanding human race.	Understand

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Course Outcomes

Course Name: English Drama-II

Course Code: EL 212

Year: Second Year

Semester: Fourth

Faculty Name: Dr. Priti Vyas

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
EL 212.1	Learn the creative usages of English language.	Apply
EL 212.2	Explain the various themes and forms of drama at different ages and stages.	Understand
EL 212.3	Discuss and explain major theories of performance from Aristotle to the present day.	Understand
EL 212.4	Discuss the impact of modern philosophies like Existentialism, Expressionism, Marxism and Absurdism on drama.	Evaluate
EL 212.5	Have knowledge of historical, socio-political, and religious trends in the plays.	Remember
EL 212.6	Explore the entire range of human experience through dramas as a literary form.	Analyse

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Course Outcomes

Course Name: English Drama-I

Course Code: EL 211

Year: Second Year

Semester: THIRD

Faculty Name: Dr. Priti Vyas

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
EL 211.1	Learn the creative usages of English language.	Apply
EL 211.2	Explain the various themes and forms of drama from Elizabethan to Victorian.	Understand
EL 211.3	Discuss and explain major theories of performance from Elizabethans to Victorians.	Understand
EL 211.4	Discuss the impact of different literary theories like Feminism, Psychoanalysis, and Victorianism on drama.	Evaluate
EL 211.5	Have knowledge of historical, socio-political, economic and religious trends in the plays.	Remember
EL 211.6	Explore the entire range of human experience through dramas as a literary form.	Analyse

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Course Outcomes

Course Name: Real Analysis and Measure Theory (MS 631)

Course Code: MS 631

Program: M.Sc. II Yr

Semester: Autumn (3rd) 2019-2020

Faculty Name: Dr. Rishi Kumar Pandey

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MS 631.1	describe fundamental properties of the real numbers that lead to the formal development of real analysis	Remember
MS 631.2	Understand and be able to communicate the underlying comprehend rigorous arguments developing the theory underpinning real analysis;	Understand
MS 631.3	Solve the problems and demonstrate an understanding of limits and how they are used in sequences, series, differentiation and integration.	Apply
MS 631.4	Analyze the problem related to construct rigorous mathematical proofs of basic results in real analysis and measure theory.	Analyze
MS 631.5	Evaluate the problem related to construct rigorous mathematical proofs of basic results in real analysis and measure theory.	Evaluate
MS 631.6	Appreciate how abstract ideas and rigorous methods in mathematical analysis can be applied to important practical problems.	Create

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MODY UNIVERSITY
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School of Liberal Arts and Science (SLAS)

Course Outcomes

Course Name: Ordinary Differential Equations

Course Code: MS 561

Program: M.Sc. I Yr

Semester: Autumn (2nd) 2019-2020

Faculty Name: Dr. Rishi Kumar Pandey

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MS 631.1	Define the different aspects of second order differential equations, non-linear ordinary differential equations, total differential equations, power series solutions, existence and uniqueness of initial value problems etc.	Remember
MS 631.2	Explain the properties related to second order differential equations, non-linear ordinary differential equations, total differential equations, power series solutions, existence and uniqueness of initial value problems etc.	Understand
MS 631.3	Solve the problems related to second order differential equations, non-linear ordinary differential equations, total differential equations, power series solutions, existence and uniqueness of initial value problems etc.	Apply
MS 631.4	Analyse the problem related to second order differential equations, non-linear ordinary differential equations, total differential equations, power series solutions, existence and uniqueness of initial value problems etc..	Analyze
MS 631.5	Compare all the aspects of the second order differential equations, non-linear ordinary differential equations, total differential equations, power series solutions, existence and uniqueness of initial value problems etc.	Evaluate
MS 631.6	May integrate the fundamentals of second order differential equations, non-linear ordinary differential equations, total differential equations, power series solutions, existence and uniqueness of initial value problems etc.	Create

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MODY UNIVERSITY
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School of Business (SOB)

Course Outcomes

Course Name: Differential Equations-II
Course Code: MS 221

Program: B.Sc. II Yr

Semester: Autumn (2nd) 2019-2020

Faculty Name: Dr. Rishi Kumar Pandey

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MS 631.1	Define the different aspects of Partial Differential equations, Second and higher Order PDE, Solution of Second order PDE, Monge's method.	Remember
MS 631.2	Explain the properties related to Partial Differential equations, Second and higher Order PDE, Solution of Second order PDE, Monge's method.	Understand
MS 631.3	Solve the problems related to Partial Differential equations, Second and higher Order PDE, Solution of Second order PDE, Monge's method.	Apply
MS 631.4	Analyse the problem related to Partial Differential equations, Second and higher Order PDE, Solution of Second order PDE, Monge's method.	Analyze
MS 631.5	Compare all the aspects of the Partial Differential equations, Second and higher Order PDE, Solution of Second order PDE, Monge's method.	Evaluate
MS 631.6	May integrate the fundamentals of Partial Differential equations, Second and higher Order PDE, Solution of Second order PDE, Monge's method.	Create

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School of Liberal Arts Sciences

Course Outcomes

Course Name: PROGRAMMING IN C++

Course Code: FS 323

Year: B.Sc. Forensic Science III Year

Semester: Spring (5th)

Faculty Name: Dr. Rishi Kumar Pandey

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MS 322.1	Define the different aspects of introduction, pointers, arrays and structures, functions, classes etc.	Remember
MS 322.2	Explain the properties related to introduction, pointers, arrays and structures, functions, classes etc.	Understand
MS 322.3	Solve the problems related to introduction, pointers, arrays and structures, functions, classes etc.	Apply
MS 322.4	Analyse the problem related to introduction, pointers, arrays and structures, functions, classes etc.	Analyse
MS 322.5	Compare all the aspects of the introduction, pointers, arrays and structures, functions, classes etc.	Evaluate
MS 322.6	May integrate the fundamentals of introduction, pointers, arrays and structures, functions, classes etc.,	Create

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School of Liberal Arts and Sciences

Course Outcomes

Course Name: Inequality and Continued Fractions

Course Code: MS 622

Program: M.Sc. II Yr

Semester: Spring (2nd) 2019-2020

Faculty Name: Dr. Rishi Kumar Pandey

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MS 631.1	Define the different aspects of inequalities, different form of continued fractions, difference between the fraction and its convergent, different theorems based on odd and even convergent.	Remember
MS 631.2	Explain the properties related to inequalities, different form of continued fractions, difference between the fraction and its convergent, different theorems based on odd and even convergent.	Understand
MS 631.3	Solve the problems related to inequalities, different form of continued fractions, difference between the fraction and its convergent, different theorems based on odd and even convergent.	Apply
MS 631.4	Analyse the problem related to inequalities, different form of continued fractions, difference between the fraction and its convergent, different theorems based on odd and even convergent.	Analyze
MS 631.5	Compare all the aspects of the inequalities, different form of continued fractions, difference between the fraction and its convergent, different theorems based on odd and even convergent.	Evaluate
MS 631.6	May integrate the fundamentals of inequalities, different form of continued fractions, difference between the fraction and its	Create

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	convergent, different theorems based on odd and even convergent.	

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Course Outcomes

Course Name: Partial Differential Equations

Course Code: MS 542

Program: M.Sc. I Yr

Semester: Autumn (2nd) 2019-2020

Faculty Name: Dr. Rishi Kumar Pandey

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MS 542.1	Define the different aspects of second order partial differential equations, Laplace equation, heat equation, wave equation, Green's functions, Laplace and Fourier transforms.	Remember
MS 542.2	Explain the properties related to second order partial differential equations, Laplace equation, heat equation, wave equation, Green's functions, Laplace and Fourier transforms.	Understand
MS 542.3	Solve the problems related to second order partial differential equations, Laplace equation, heat equation, wave equation, Green's functions, Laplace and Fourier transforms.	Apply
MS 542.4	Analyse the problem related to second order partial differential equations, Laplace equation, heat equation, wave equation, Green's functions, Laplace and Fourier transforms.	Analyze
MS 542.5	Compare all the aspects of the second order partial differential equations, Laplace equation, heat equation, wave equation, Green's functions, Laplace and Fourier transforms.	Evaluate
MS 542.6	May integrate the fundamentals of second order partial differential equations, Laplace equation, heat equation, wave equation, Green's functions, Laplace and Fourier transforms.	Create

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School of Liberal Arts and Sciences (SLAS)

Course Outcomes

Course Name: Graph Theory

Course Code: MS 342

Program: B.Sc. Honors (Mathematics) III Year

Semester: Autumn (6th) 2019-2020

Faculty Name: Dr. Rishi Kumar Pandey

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MS 342.1	Define the different aspects of graphs, directed graphs, Trees, Cut-Sets and Cut-Vertices, Planarity, Matching, circuits.	Remember
MS 342.2	Explain the properties related to graphs, directed graphs, Trees, Cut-Sets and Cut-Vertices, Planarity, Matching, circuits	Understand
MS 342.3	Solve the problems related graphs, directed graphs, Trees, Cut-Sets and Cut-Vertices, Planarity, Matching, circuits	Apply
MS 342.4	Analyse the problem related to graphs, directed graphs, Trees, Cut-Sets and Cut-Vertices, Planarity, Matching, circuits	Analyse
MS 342.5	Compare all the aspects of the graphs, directed graphs, Trees, Cut-Sets and Cut-Vertices, Planarity, Matching, circuits	Evaluate
MS 342.6	May integrate the fundamentals of graphs, directed graphs, Trees, Cut-Sets and Cut-Vertices, Planarity, Matching, circuits etc.	Create

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Dr. Rishi Kumar Pandey, (Assistant Professor, Department of Mathematics, SLAS, MUST);
Faculty Cabin ABB F-414, M.:8982680811, Email: rishipandey9@gmail.com;

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School of Liberal Arts Sciences

Course Outcomes

Course Name: Dynamics and Mechanics

Course Code: MS 322

Year: B.Sc. Honors (Mathematics)/B.Sc. (PCM) III Year

Semester: Spring (6^{th})

Faculty Name: Dr. Rishi Kumar Pandey

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MS 322.1	Define the different aspects of velocities and accelerations, rectilinear motion, coplanar forces, rigid body dynamics.	Remember
MS 322.2	Explain the properties related to velocities and accelerations, rectilinear motion, coplanar forces, rigid body dynamics.	Understand
MS 322.3	Solve the problems related to velocities and accelerations, rectilinear motion, coplanar forces, rigid body dynamics.	Apply
MS 322.4	Analyse the problem related to velocities and accelerations, rectilinear motion, coplanar forces, rigid body dynamics.	Analyse
MS 322.5	Compare all the aspects of the velocities and accelerations, rectilinear motion, coplanar forces, rigid body dynamics.	Evaluate
MS 322.6	May integrate the fundamentals of velocities and accelerations, rectilinear motion, coplanar forces, rigid body dynamics.	Create

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Dr. Rishi Kumar Pandey, (Assistant Professor, Department of Mathematics, SLAS, MUST),
Faculty Cabin ABB F-414, M.:8982680811, Email: rishipandey9@gmail.com;

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School of Liberal Arts/ School of Science

Course Outcomes

Course Name: Physical Chemistry-I

Course Code: CH291

Year: 2019-20

Semester: Autumn

Faculty Name: Prof. Amlan Kumar Das

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH291.1	Understand the basics of thermodynamics	Understand
CH291.2	Analyze the difference between internal energy and enthalpy	Analyze
CH291.3	Create interrelation between entropy and disorder	Create
CH291.4	Apply thermodynamic rules in natural process	Apply
CH291.5	Evaluate the rate of reaction	Evaluate
CH291.6	Remember the postulate of collision theory	Remember

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School of Liberal Arts and Sciences

Course Outcomes

Course Name: Physical Chemistry Laboratory - I

Course Code: CH 591

Year: 2019-20

Semester: Autumn

Faculty Name: Prof. Amlan Kumar Das

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH591.1	Understand phase diagram of three component system	Understand
CH591.2	Analyze Beer's- Lambert law	Analyze
CH591.3	Create interrelation between heat of neutralization and enthalpy	Create
CH591.4	Apply the potentiometer to evaluate equilibrium constant	Apply
CH591.5	Evaluate specific and molar rotation of an optically active substance	Evaluate
CH591.6	Remember the basics of polarimeter	Remember

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Course Outcomes

Course Name: Physical Chemistry Laboratory II

Course Code: CH 582

Year: 2019-20

Semester: Spring

Faculty Name: Prof. Amlan Kumar Das

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH 582.1	Evaluate molar mass of polymer	Evaluate
CH 582.2	Determine order of complex reaction	Analyze
CH 582.3	Effect of hydrogen ion in chemical reaction	Create
CH 582.4	Standard electrode potential of the redox system	Apply
CH 582.5	Effect of temperature on surface tension	Understand
CH 582.6	Find Critical micelle concentration of soap	remember

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Course Outcomes

Course Name: Physical Chemistry II

Course Code: CH 532

Year: 2019-20

Semester: Spring

Faculty Name: Prof. Amlan Kumar Das

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH 532.1	Understand rules of adsorption	Understand
CH 532.2	Apply surface active agent for surface modification	Apply
CH 532.3	Types polymerization and application	Analyze
CH 532.4	Evaluate electrochemical reaction	Evaluate
CH 532.5	Rules of chemical dynamics	Remember
CH 532.6	Create different condition for chemical reaction	create

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Course Outcomes

Course Name: Physical Chemistry -I

Course Code: CH 531

Year: 2019-20

Semester: Autumn

Faculty Name: Prof. Amlan Kumar Das

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH531.1	Understand the basics of quantum mechanics	Understand
CH531.2	Analyze various operator in quantum mechanics	Analyze
CH531.3	Apply quantum mechanics to find out energy of electron	Apply
CH531.4	Evaluate activity coefficient of electrolyte solution	Evaluate
CH531.5	Create the difference between reversible and irreversible thermodynamics	Create
CH531.6	Remember the postulates of irreversible thermodynamics	Remember

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Course Outcomes

Course Name: Physical Chemistry - III

Course Code: CH 371

Year: 2019-20

Semester: Autumn

Faculty Name: Prof. Amlan Kumar Das

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH371.1	Understand the basics of Quantum mechanics	Understand
CH371.2	Analyze quantum mechanical operator	Analyze
CH371.3	Create proper operator of the particular wavefunction	Create
CH371.4	Apply the techniques of spectroscopy	Apply
CH371.5	Evaluate the energy of rotational spectra	Evaluate
CH371.6	Remember the basic principles if vibrational spectra	Rememebr

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Course Outcomes

Course Name: Laboratory course in Chemistry-III

Course Code: CH 281

Year: Academic Year: 2019-20

Semester: Autumn

Faculty Name: Dr. Sarita Khaturia

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

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH 281.1	Understand handling with various chemistry glasswares and chemicals in organic chemistry laboratory.	Understand
CH 281.2	Learn and prepare various solutions used in the chemistry laboratory	Create
CH 281.3	Determination of hardness of water by EDTA method and Alkalinity determination	Determine
CH 281.4	Determine heat of enthalpy	Analyze
CH 281.5	Explain the procedure of determination of Cu in brass	Explain
CH 281.6	Calculate percentage of CH_3COOH in vinegar and amount of alkali in antacid determination	Remember

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Course Outcomes

Course Name: Organic Chemistry-I

Course Code: CH 223

Year: B.Sc. II year 2019-20

Semester: III

Faculty Name: Dr. Sarita Khaturia

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH 223.1	Analyze the Molecular vibrations, selection rules, intensity and position of IR bands, characteristics absorption of various functional groups, analysis of UV spectra	Analyze
CH 223.2	Applications of UV-Visible spectroscopy and IR Spectroscopy	Apply
CH 223.3	Remember the Nomenclature, structure and bonding, Preparation of Phenols, Physical properties and acidic character. Comparative acidic strength of alcohols and phenols, resonance stabilization of phenoxide ion.	Remember
CH 223.4	Explain the Mechanisms of Fries rearrangement, Claisen rearrangement, Gatterman synthesis, Hauben-Hoesch reaction, Lederer Manasse reaction and Reimer Tiemann reaction. Oxidative cleavage [$Pb(OAc)_4$ and HIO_4] and Pinacol-Pinacolone rearrangement	Explain
CH 223.5	Interpretation of UV spectra and IR spectra of simple organic compounds	Evaluate
CH 223.6	Understand Nomenclature of ethers and methods of their formation, Physical properties, Chemical reactions-cleavage and auto oxidation, Ziesel's method. Synthesis of epoxides. Reactions of Grignard and organolithium reagents with epoxides	Understand

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Course Outcomes

Course Name: Inorganic Chemistry-I

Course Code: CH 213

Year: B.Sc. II year 2019-20

Semester: III

Faculty Name: Dr. Sarita Khaturia

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH 213.1	Analyze the complexes illustrating relative stability of their oxidation states	Analyze
CH 213.2	Apply the Werner's coordination theory and its experimental verification, effective atomic number concept, chelates, nomenclature of coordination compounds	Apply
CH 213.3	Remember the Characteristic properties of d-block elements.	Remember
CH 213.4	Explain the isomerism in coordination compounds, valence bond theory of transition metal complexes.	Explain
CH 213.5	Evaluate the Chemistry of Elements of Second and Third Transition Series their General characteristics, comparative treatment with their 3d-analogues in respect of ionic radii, oxidation states, magnetic behavior, spectral properties and stereochemistry.	Evaluate
CH 213.6	Understand the Chemistry of Lanthanide Elements their Electronic configuration, oxidation states and ionic radii and lanthanide contraction, complex formation, occurrence and isolation, lanthanide compounds.	Understand

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Course Outcomes

Course Name: American Literature

Course Code: EL 311

Year: Third

Semester: Autumn

Faculty Name: Dr. Sangeeta Jhajharia

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
EL 311.1	Remember major historical and cultural developments of colonial America	Remember
EL 311.2	Understand and demonstrate knowledge of foundational texts of Early American literature through 1860s.	Understand
EL 311.3	Appreciate poetry as a literary art and its various elements of poetry, such as diction, tone, form, genre, imagery, figures of speech, symbolism, theme, etc	Apply
EL 311.4	Use literary texts to examine the historical, cultural, and rhetorical contexts in which they were written.	Analyze
EL 311.5	Evaluate and discuss the roles which gender, race, age, class, ethnicity, wealth, poverty, and geography have played in creating American literature.	Evaluate
EL 311.6	Write clear, focused, coherent essays about literature for an academic audience, using standard English conventions of grammar and style.	Create

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Course Outcomes

Course Name: Literary Trends and Movements

Course Code: EL 312

Year: Third

Semester: Spring

Faculty Name: Dr. Sangeeta Jhajharia

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
EL 312.1	Describe major writers and their works in chronological order	Remember
EL 312.2	Understand how literature also influences the social and political history of each period	Understand
EL 312.3	Compare literary trends of one period with that of another	Apply
EL 312.4	Analyze how literary trends/movements emerge, function and dissolve, only to be reborn again	Analyze
EL 312.5	Evaluate and classify all major literary trends and movements	Evaluate
EL 312.6	Explore issues, controversies & themes rather than chronological periods and write a well-organized paragraph in order to answer a question	Create

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Course Outcomes

Course Name: Modern English Language and Phonetics-II

Course Code: EL 332

Year: Third

Semester: Spring

Faculty Name: Dr. Sangeeta Jhajharia

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
EL 332.1	Learn the essentials of English Grammar and Phonemic symbols	Remember
EL 332.2	Understand the practical usage of the sounds and grammar of English in our speech and writing	Understand
EL 332.3	Apply the rules of grammar and phonetics to use flawless English in speech and writing	Apply
EL 332.4	Analyze, identify and rectify the common errors in speech and writing	Analyze
EL 332.5	Evaluate a piece of writing keeping in mind all the rules of grammar and phonetics studied	Evaluate
EL 332.6	Develop Proficiency in English through meaningful use of language that is semantically and grammatically accurate. Student can read with ease and fluently, enrich vocabulary and enjoy reading and writing.	Create

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Course Outcomes

Course Name: Modern English Language and Phonetics-I

Course Code: EL 331

Year: Third

Semester: Autumn

Faculty Name: Dr. Sangeeta Jhajharia

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
EL 331.1	Learn the essentials of English Grammar and Phonemic symbols	Remember
EL 331.2	Understand the practical usage of the sounds and grammar of English in our speech and writing	Understand
EL 331.3	Apply the rules of grammar and phonetics to use flawless English in speech and writing	Apply
EL 331.4	Analyze, identify and rectify the common errors in speech and writing	Analyze
EL 331.5	Evaluate a piece of writing keeping in mind all the rules of grammar and phonetics studied	Evaluate
EL 331.6	Develop Proficiency in English through meaningful use of language that is semantically and grammatically accurate. Student can read with ease and fluently, enrich vocabulary and enjoy reading and writing.	Create

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Course Outcomes

Course Name: Middle Ages to the Seventeenth Century English Literature-I

Course Code: EL513

Year: First

Semester: Autumn 2019-20

Faculty Name: Dr. Sangeeta Jhajharia

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
EL513.1	Remember the culture, thought, literary trends and movements of the period through the prescribed texts.	Remember
EL513.2	Have an understanding of the major literary and cultural trends in literature.	Understand
EL513.3	Discuss the significant figures and events of the period.	Apply
EL513.4	Analyze theme, plot and technique in the plays of Shakespeare and Christopher Marlowe	Analyze
EL513.5	Recognize the rhythms, metrics and other musical aspects of poetry and critically evaluate and appreciate poems of John Donne, Geoffrey Chaucer, John Milton	Evaluate
EL513.6	Write a well-organized paragraph in answer to a question about a literary text	Create

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Course Outcomes

Course Name: American Literature

Course Code: EL 523

Year: First

Semester: Autumn 2019-20

Faculty Name: Dr. Sangeeta Jhajharia

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
EL523.1	Remember major historical and cultural developments of colonial America	Remember
EL523.2	Understand the social, economic, and political perspectives of the age	Understand
EL523.3	Appreciate poetry as a literary art and its various elements of poetry, such as diction, tone, form, genre, imagery, figures of speech, symbolism, theme etc.	Apply
EL523.4	Analyze the roles which gender, race, age, class, ethnicity, wealth, poverty, and geography have played in creating American literature.	Analyze
EL523.5	Use literary texts to examine the historical, cultural, and rhetorical contexts in which they were written.	Evaluate
EL523.6	Demonstrate knowledge of foundational texts of Early American literature through 1860s and write clear, focused, coherent essays about literature for an academic audience, using standard English conventions of grammar and style.	Create

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Course Outcomes

Course Name: Middle Ages to the Seventeenth Century English Literature-II

Course Code: EL 572

Year: First

Semester: Spring

Faculty Name: Dr. Sangeeta Jhajharia

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
EL 572.1	Remember the culture, thought, literary trends and movements of the period through the prescribed texts.	Remember
EL 572.2	Understand the social, economic, and political perspectives of the age	Understand
EL 572.3	Appreciate the prescribed texts, with all their individual fragments	Apply
EL 572.4	Analyze theme, plot and technique in the plays of Shakespeare and Ben Johnson	Analyze
EL 572.5	Critically evaluate and appreciate poems of John Donne, Geoffrey Chaucer, John Milton, Edmund Spencer	Evaluate
EL 572.6	Write a well-organized paragraph in answer to a question about a literary text	Create

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Course Outcomes

Course Name: World Literature(s)

Course Code: EL 614

Year: Second

Semester: Spring

Faculty Name: Dr. Sangeeta Jhajharia

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
EL 614.1	To remember the social, economic, and political perspectives of the literatures produced and also translated into English.	Remember
EL 614.2	To understand the social, economic, and political perspectives of the literatures produced.	Understand
EL 614.3	Appreciate world fiction, with all its individual fragments, represents collective humanity.	Apply
EL 614.4	Analyze the relationship between drama and its socio-cultural context representing myriad colors of the genre.	Analyze
EL 614.5	Evaluate the technicalities and themes of the playwrights	Evaluate
EL 614.6	Gain insight into variety of issues relating to English drama in the modern context and write a well-organized paragraph in answer to a question about a literary text	Create

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Course Outcomes

Course Name: Calculus

Course Code: MS111

Year: B.Sc. I (PCM, Physics (H), Chemistry (H), Mathematics (H))

Semester: Autumn

Faculty Name: Dr. Krishnapal Singh Sisodia

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MS111.1	Remember the definitions of Curvature, Radius of curvature, Centre of curvature, Gradient, Divergence and Curl	Remember
MS111.2	Understand the Tests for concavity and convexity, Intersection of a curve with its asymptotes, Change of order of integration, parametric curves, Polar curves and Pedal curves	Understand
MS111.3	Evaluate the Asymptotes in Cartesian and polar coordinates, Partial differentiation, Maxima and Minima of functions of two variables, Double integrals in Cartesian and polar coordinates, Triple integral	Evaluate
MS111.4	Apply the double and triple integrals in finding areas and volumes, Greens, Stokes and Gauss theorems to obtain some integrals	Apply
MS111.5	Analyse the Points of inflexion, Multiple points, Lagrange's method of undetermined multipliers, Euler's theorem for homogeneous functions	Analyse
MS111.6	Create the curve sketching in Cartesian and polar co-ordinates, Circle of curvature, Chord of curvature	Create

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Course Outcomes

Course Name: Physical Chemistry-II

Course Code: CH 272

Year: Academic Year: 2019-20

Semester: Spring

Faculty Name: Dr. Ritambhara Jangir

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

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH 272.1	Understand basic concept of phase equilibrium of one and two component systems, freezing mixtures, azeotropes.	Understand
CH 272.2	Create freezing and azeotropic mixtures for reaction conditions	Create
CH 272.3	Choose liquids as solvents according to their properties.	Evaluate
CH 272.4	Measure specific and equivalent conductance, transport number, understand EMF series and its significance	Evaluate
CH 272.5	Determine pH and pKa values through potentiometry	Apply
CH 272.6	Apply law of mass action and Le Chatelier's principle for chemical equilibrium	Apply
CH 272.6	Use Clausius-Clapeyron equation for isothermic and isochoric reactions	Apply

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Course Outcomes

Course Name: **Organic Chemistry-II**

Course Code: CH 192

Year: Academic Year: 2019-20

Semester: Spring

Faculty Name: Dr. S.S.Chauhan

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH 192.1	Define the basics of different reactions of alkyl, aryl halide, Polyhalogen, dienes alkyne and Arenes.	Remember
CH 192.2	Describe the concept of electrophilic and nucleophilic substitution mechanisms.	Understand
CH 192.3	Demonstrate reaction invole in alkyl, aryl halide, Polyhalogen, dienes alkyne and Arenes.	Apply
CH 192.4	Diagram illustrate to MO picture of the dienes, alkyne and Arenes. And classify different reactions.	Analyse
CH 192.5	Compare alkyl, aryl halide, Polyhalogen, dienes alkyne and Arenes on the basis of energy profile diagrams	Evaluate
CH 192.6	Build the concept of stability and reactivity of different reagents towards reaction mechanism.	Create

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Course Outcomes

Course Name: Organic Synthesis-I

Course Code: CH 631

Year: 2019-20

Semester: Autumn

Faculty Name: Dr. S S Chouhan

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH 631.1	Understand various Reagents and reactions	Understand
CH 631.2	Analyze different oxidative processes	Analyze
CH 631.3	Apply different reductive processes in industry	Apply
CH 631.4	Evaluate general mechanistic considerations	Evaluate
CH 631.5	Create a detailed study of the various rearrangements	Create
CH 631.6	Remember the rules and factors of Polycyclic Aromatic Compounds	remember

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Course Outcomes

Course Name: Advanced Organic Chemistry Laboratory-II

Course Code: CH 671

Year: II (MSc Chemistry)

Semester: III

Faculty Name: Dr. Shivendra Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH 671.1	Isolation of caffeine from tea leaves.	Remember
CH 671.2	Isolation of benzoic acid from tea leaves.	Understand
CH 671.3	Isolation of casein from milk (the students are required to try some typical colour reactions of proteins).	Apply
CH 671.4	Isolation of lactose from milk (purity of sugar should be checked by TLC and PC and Rf values reported).	Analyse
CH 671.5	Isolation of nicotine dipicrate from tobacco.	Evaluate
CH 671.6	Isolation of cinchonine from cinchona bark.	Analyse
CH 671.7	Isolation of piperine from black pepper.	Evaluate
CH 671.8	Isolation of lycopene from tomatoes.	Analyse
CH 671.9	Isolation of β-carotene from carrots.	Evaluate

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Course Outcomes

Course Name: Chemistry I

Course Code: CH 113

Year: 2019-20

Semester: Autumn

Faculty Name: Dr. S S Chouhan

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH 113.1	Understand the atomic structure	Understand
CH 113.2	Analyze the various forces in gasses	Analyze
CH 113.3	Apply the mechanism of organic reaction in industry	Apply
CH 113.4	Evaluate the SN1 and SN2 reaction	Evaluate
CH 113.5	Create correlation between ionic radii and ionization energy	Create
CH 113.6	Remember the rules and factors of stereochemistry	remember

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Course Outcomes

Course Name: Chemistry - II

Course Code: CH 114

Year: B.Sc. I year 2019-20

Semester: I

Faculty Name: Dr. S. S. Chauhan

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH 114.1	Valence shell electron pair repulsion theory. MO theory, homonuclear (B2, C2, N2 and O2) and heteronuclear (CO and NO) diatomic molecules.	Analyze
CH 114.2	Nomenclature, preparation and reactions of alkenes, Saytzeff and Hofmann elimination, Mechanisms of hydrogentation, electrophilic and free radical additions, Markownikoff's rule, hydroboration-oxidation, oxymercuration-reduction. Chemical reaction of alkynes, mechanism of electrophilic and nucleophilic addition reaction, hydroboration-oxidation, metalammonia reduction, oxidation and polymerization.	Apply
CH 114.3	Remember the basic properties of s- and p-block elements, borazine, borohydrides, fullerenes, carbides, silicates (structural principle), tetrasulphur tetranitride. Structure of Xenon compounds.	Remember
CH 114.4	Explain the diagonal relationships of s- block elements, rate of Reaction, factors influencing the rate of reaction. zero order, first order, second order, pseudo order, half-life and Radioactive decay as a first Order phenomenon. Theories of chemical kinetics: Arrhenius equation, collision theory, transition state theory. Catalysis & types of catalysis, Mechanism of catalysis, Enzyme catalysis	Explain
CH 114.5	Evaluate the Ionic structures, radius ratio effect and coordination number, lattice energy and Born haber cycle, solvation energy and solubility of ionic solids, polarizing power and polarisability of ions, Fajan's rule.	Evaluate
CH 114.6	Understand the methods of formation (with special reference of Wurtz reaction, Kolbe reaction, Corey house reaction and decarboxylation of carboxylic acids). Physical properties and chemical reaction of alkanes	Understand

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Course Outcomes

Course Name: Chemistry Laboratory I

Course Code: CH 123

Year: 2019-20

Semester: Autumn

Faculty Name: Dr. S S Chouhan

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH 123.1	Understand the acid and basic radicals	Understand
CH 123.2	Evaluate the difference between acid and basic radicals	Evaluate
CH 123.3	Remember the techniques to identify acid and basic radicals	Remember
CH 123.4	Analyze the SN1 and SN2 reaction	Analyze
CH 123.5	Create correlation between presence of various elements and property	Create
CH 123.6	Apply the rules and factors of stereochemistry	Apply

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Course Outcomes

Course Name: Chemistry Lab II

Course Code: CH 124

Year: Academic Year: 2019-20

Semester: Spring

Faculty Name: Dr. S.S.Chauhan

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

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH 124.1	Visit the chemistry laboratory and understand handling with various chemistry glasswares and chemicals.	Understand
CH 124.2	Handling with various apparatus and analyse P^H, conductance of the sample.	Analyse
CH 124.3	Handling with various apparatus and analyse absorbance and intensity of the sample.	Analyse
CH 124.4	Learn about different type of titrations.	Understand
CH 124.5	Purify organic compounds through crystallization	Analyse
CH 124.6	Handling with various apparatus and analyse water parameters of the sample.	Analyse

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Course Outcomes

Course Name: Spectroscopy-I

Course Code: CH 523

Year: I (MSc Chemistry)

Semester: I

Faculty Name: Dr. Shivendra Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH 523.1	The concept of Microwave, Infra-Red, Raman, Electron Spin Resonance and Mossbauer spectroscopy	Remember
CH 523.2	The usefulness and applications of Microwave, Infra-Red, Raman, Electron Spin Resonance and Mossbauer spectroscopy	Understand
CH 523.3	The concept of Microwave, Infra-Red, Raman, Electron Spin Resonance and Mossbauer spectroscopy to solve specific problem associated with a particular spectroscopy	Apply
CH 523.4	The structure of molecule and its property based on spectral data of Microwave, Infra-Red, Raman, Electron Spin Resonance and Mossbauer spectroscopy	Analyse
CH 523.5	The exact structure of molecules using Microwave, Infra-Red, Raman, Electron Spin Resonance and Mossbauer spectroscopy	Evaluate

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Course Outcomes

Course Name: **Spectroscopy-II**

Course Code: CH 524

Year: Academic Year: 2019-20

Semester: Spring

Faculty Name: Dr. S.S.Chauhan

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH 524.1	Define the basics of UV-Visible, IR, NMR (^{1}H&^{13}C), and Mass Spectroscopy.	Remember
CH 524.2	Describe the concept of electronic transitions, vibrational, chemical shift, Two dimension NMR spectroscopy, and Mass spectral fragmentation of organic compounds.	Understand
CH 524.3	Demonstrate ultraviolet, IR, NMR and Mass spectra with different examples.	Apply
CH 524.4	Diagram illustrate for Beer-Lambert law, vibrational frequencies, shielding mechanism, Two dimension NMR, and Mass spectroscopy.	Analyse
CH 524.5	Compare spectral data of UV-Visible, IR, NMR (^{1}H&^{13}C), and Mass Spectroscopy.	Evaluate
CH 524.6	Build the concept of spectroscopy(UV-Visible, IR, NMR (^{1}H&^{13}C), and Mass).	Create

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Course Outcomes

Course Name: Advanced Applications in Chemistry

Course Code: CH 536

Year: FIRST

Semester: Spring

Faculty Name: Dr. Shivendra Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH 536.1	Evaluate the nature of supramolecular interactions, Host-guest interaction	Evaluate
CH 536.2	Determine Nano sensors, drug delivery, Cancer therapy, Tissue engineering, water purification	Analyze
CH 536.3	Effect of Green reagents, Green solvents (super critical fluids, water as a solvent for organic reactions	Create
CH 536.4	Advantages of Organic Electronics, electronic structure of materials, electrical properties of materials and optical absorption	Apply
CH 536.5	Organic ElectroChemical Transistors (OECTs), Organic Field Effect Transistors (OFETs).	Understand
CH 536.6	Use of word processing software including documents	remember

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Course Outcomes

Course Name: Instrumental methods of analysis

Course Code: CH 313

Year: III (BSc Chemistry)

Semester: V

Faculty Name: Dr. Shivendra Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH 313.1	The concept of spectroscopic techniques like Mass, Atomic absorption, Photo-electron & Mossbauer	Remember
CH 313.2	The concept of spectroscopic techniques like Mass, Atomic absorption, Photo-electron & Mossbauer	Understand
CH 313.3	The concept of different chromatographic techniques	Apply
CH 313.4	The concept of different chromatographic techniques	Analyse
CH 313.5	Other Separation Methods:-Ultracentrifugation-Principle, sedimentation constant, sedimentation equilibrium, sedimentation velocity, methodology and applications	Evaluate

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Course Outcomes

Course Name: Chemistry of Polymers and Petrochemicals

Course Code: CH 323

Year: B.Sc. III year 2019-20

Semester: III

Faculty Name: Dr. S.S.Chauhan

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH 323.1	Analyze the Copper Corrosion test and Softening point Test - Refinery Products and its uses, Heat of Combustion, Specific heat, Latent Heat of fusion, Latent heat of Vaporization, Viscosity index.	Analyze
CH 323.2	Polymerization methods: addition and condensation; mechanism and their kinetics, metallocene polymers and other newer techniques of polymerization.	Apply
CH 323.3	Remember the Inorganic Polymers: Silicones and Phosphazenes as inorganic polymers. triphosphazenes. Organic Polymers: Condensation polymers- Polyesters, Polyamides, Phenol-formaldehyde resin, Urea-formaldehyde resin, Epoxy resins, Polyurathanes	Remember
CH 323.4	Explain the Occurrence of Petroleum by Biological method - Composition of Petroleum, Properties of Paraffins, Olefins, Naphthalene, Aromatics and Inorganic impurities (sulphur, nitrogen, chlorine) Exploration of Petroleum by gravity, Magnetic and Seismic Method -Refineries & its capacity in India	Explain
CH 323.5	Evaluation of Petroleum, U.O.P Characterization factor, Correlation Index - TBP Apparatus and its necessity in Refinery - Testing methods and its importance – ASTM Distillation, Reid vapor pressure, Oxidation stability, Smoke Point, Aniline Point	Evaluate
CH 323.6	Understand copolymerization, fire retarding polymers, electrically conducting polymers, biopolymers, contact lens, dental polymers, artificial heart.	Understand

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Course Outcomes

Course Name: Laboratory Course for Instrumental Methods of Analysis

Course Code: CH 323

Year: Academic Year: 2019-20

Semester: Autumn

Faculty Name: Dr. S.S.Chauhan

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

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH 323.1	Understand handling with various chemistry glasswares and chemicals in organic chemistry laboratories.	Understand
CH 323.2	Qualitative & quantitative analysis	Create
CH 323.3	Mc-Lafferty rearrangement, double charged ion, nitrogen rule and double bond equivalent	Apply
CH 323.4	Evaluate the molecular ion peak, base peak, ion analysis, ion abundance, modes of fragmentation, metastable peak, retro-Diels Alder reaction, mass spectral fragmentation of organic compounds (alkanes, alkenes, arenes, alcohols, aldehydes, ketones, acids and phenols)..	Evaluate
CH 323.5	Instrumentation and applications of Atomic absorption, Photoelectron and Mossbauer spectroscopy	Analyze
CH 323.6	Process of purification of a given organic sample solid/liquid through chromatography	Remember

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Course Outcomes

Course Name: Green and Environmental Chemistry

Course Code: CH 334

Year: 2019-20

Semester: Spring

Faculty Name: Mr. G.S.Malhotra

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
[illegible]	[illegible]	[illegible]
CH-334.2	Discuss the Water chemistry, waste water treatment and eutrophication	Understand
CH-334.3	Discuss the Soil chemistry and Nutrients pathway in soil	Understand
CH-334.4	Analyse the Complex formation in water and various free radicules formation in Air	Analyse
CH-334.5	Create the Green synthesis of various commercially important complex compounds	Create
CH-334.6	Evaluate the microwave and ultrasound assisted synthesis	Evaluate

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Course Outcomes

Course Name: Laboratory course in Chemistry-V

Course Code: CH 361

Year: Academic Year: 2019-20

Semester: Autumn

Faculty Name: Dr. S.S. Chauhan

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

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH 361.1	Understand handling with various chemistry glasswares and chemicals in organic chemistry laboratory.	Understand
CH 361.2	Learn and prepare various solutions used in the chemistry laboratory	Create
CH 361.3	Determination of Iron content by redox titration	Determine
CH 361.4	Analyze the kinetics of rate constant of second order reactions	Analyze
CH 361.5	Explain the procedure of Preparing Ni(DMG)2, Ni(NH3)6Cl2	Explain
CH 361.6	Calculate percentage of iron in plain carbon steel	Remember

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Course Outcomes

Course Name: English Prose-II

Course Code: EL 122

Year: First

Semester: Spring

Faculty Name: Dr. Sangeeta Jhajharia

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
EL 122.1	To recognize different types of prose writing	Remember
EL 122.2	To understand and appreciate the basic concepts of style and literary devices in prose	Understand
EL 122.3	To apply the basic concepts of style and literary devices to different types of prose writing	Apply
EL 122.4	To analyze and appreciate fiction and enrich their knowledge about diverse fictional forms in prose	Analyze
EL 122.5	To be able to evaluate and synthesize information from a variety of resources	Evaluate
EL 122.6	To write creatively and critically	Create

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Course Outcomes

Course Name: English Prose-I

Course Code: EL121

Year: First

Semester: Autumn

Faculty Name: Dr. Sangeeta Jhajharia

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
EL121.1	To recognize different types of prose writing	Remember
EL121.2	To understand and appreciate the basic concepts of style and literary devices in prose	Understand
EL121.3	To apply the basic concepts of style and literary devices to different types of prose writing	Apply
EL121.4	To analyze and appreciate fiction and enrich their knowledge about diverse fictional forms in prose	Analyze
EL121.5	To be able to evaluate and synthesize information from a variety of resources	Evaluate
EL121.6	To write creatively and critically	Create

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Course Outcomes

Course Name: Psychological testing - II

Course Code: PL 362

Year: Third Year

Semester: Spring

Faculty Name: Dr Pragati Daga Dujari

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PL 362.1	Assess various psychological assessment techniques	Evaluate
PL 362.2	Summarize skills necessary for applying different tests for different purpose as evaluation, training and rehabilitation	Understand
PL 362.3	Identify the theories behind the particular test development	Remember
PL 362.4	Illustrate different type of test and know the suitability of the test with the particular population	Analyze
PL 362.5	Compare the types and purpose of tests	Evaluate
PL 362.6	Demonstrate the interpretation of the tests	Apply

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Course Outcomes

Course Name: Positive Psychology

Course Code: PL 612

Year: Second

Semester: Spring

Faculty Name:

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PL612.1	Understand the concepts of positive psychology	Understand
PL 612.2	Analyze different emotional states	Analyze
PL 612.3	Understand the pro-social behavior	Understand
PL 612.4	Determine the importance of well-being	Determine
PL 612.5	Apply spiritual aspect to develop positivity	Apply
PL 612.6	Understand positive cognitive states and processes	Understand

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Course Outcomes

Course Name: Research Methodology

Course Code: PL 542

Year: First Year

Semester: Spring

Faculty Name: Dr Pragati Daga Dujari

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PL 542.1	Discuss the need and purpose of research, various types of research and its importance in overall development	Understand
PL 542.2	Determine a research problem , write objective and hypothesis	Apply
PL 542.3	Outline the purpose of literature review and the steps to write a literature review	Analyze
PL 542.4	Explain the types of variables- methods of measuring, manipulation and controlling variables	Understand
PL 542.5	Recommend key elements of a research proposal/report and proposal , as per APA Guidelines	Evaluate
PL 542.6	State the structure and types of research designs	Remember

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Course Outcomes

Course Name: Psychometrics and Statistics in Psychology

Course Code: PL 532

Year: Second

Semester: Spring

Faculty Name:

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PL532.1	Understand the role of researcher in psychology	Understand
PL 532.2	Apply methods of test development in construction of a psychological tool	Apply
PL 532.3	Understand the nature of descriptive statistics	Understand
PL 532.4	Apply the parametric statistics	Apply
PL 532.5	Analyze non-parametric statistics	Analyze

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Course Outcomes

Course Name: Applied Psychology

Course Code: PL 522

Year: 2018- 19

Semester: Spring

Faculty Name: Richa Sharma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PL 522.1	Compare the various theories Motivation	Evaluate
PL 522.2	Examine the theories of Leadership	Apply
PL 522.3	Discuss the various areas of IO and Engineering Psychology	Understand
PL 522.4	Analyse the Role of Sports Psychologists	Analye
PL 522.5	Demonstrate the Role of Sports psychology in motivation and mental health	Apply
PL 522.6	Integrate the various skill enhancing techniques used by sportspersons.	Create

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Course Outcomes

Course Name: Advanced General Psychology

Course Code: PL 512

Year: First Year

Semester: Spring

Faculty Name: Dr Pragati Daga Dujari

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PL 512.1	Explain motivation cycle, types of motives and theories of motivation	Understand
PL 512.2	Identify emotion, physiological correlates and theories of emotion	Remember
PL 512.3	Demonstrate the cognitive processes involved in decision making, creativity, problem solving	Apply
PL 512.4	Categorize different theories of intelligence and learn how intelligence is different in different cultures.	Analyze
PL 512.5	Differentiate between various approaches of personality and describe techniques of personality assessment	Understand
PL 512.6	Formulate implication of various theories in day to day life of creativity, problem solving and decision making	Create

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Course Outcomes

Course Name: Psychology Lab- IV

Course Code: PL 372

Year: Third

Semester: Spring

Faculty Name: Dr. Pragati Daga Dujari

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PL372.1	Describe key concepts, principles, and overarching themes in psychology.	Understand
PL372.2	Measure a particular trait of an individual using a test or experiment, looking at the problem to be solved	Evaluate
PL372.3	Demonstrate the procedure of conducting the test with details to the subject, ensuring major precautions to be taken.	Apply
PL372.4	Compose effective writing skills and engage in active and meaningful discussion/dialogue on the particular topic.	Create
PL372.5	Sketch ethical standards to evaluate psychological science and practice	Apply
PL372.6	Generating effective interpretation of the test/ experiment with the help of scoring of the test used.	Create

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Course Outcomes

Course Name: Industrial and organizational Psychology-II

Course Code: PL 352

Year: 2019- 20

Semester: Spring

Faculty Name: Monika Shekhawat

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PL 352.1	Discuss the concept of work motivation and different types of work motivation models	Understand
PL 352.2	Apply the understanding of work motivation model in solving work related problems	Apply
PL 352.3	Examine accident proneness and preventive and safety measures of accidents.	Analyse
PL 352.4	Formulate strategies to enhance work motivation and job satisfaction of employees	Create
PL 352.5	Examine the concept of job satisfaction & different determinants and measurement of job satisfaction	Apply
PL 352.6	Assess and understand human-machine system ,its application	Evaluate

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Course Outcomes

Course Name: Psychopathology-II

Course Code: PL 342

Year: 2019- 20

Semester: Spring

Faculty Name: Monika shekhawat

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PL 342.1	Discuss the nature and symptoms of psychopathological disorders	Understand
PL 342.2	Examine the features and causes of pathological disorders	Apply
PL 342.3	Assess and Compare the etiology of different psychological disorders	Evaluate
PL 342.4	Classify and differentiate among the mood disorders, schizophrenia and other psychotic abnormalities	Analyse
PL 342.5	Identify clinical disorders on the basis of symptoms	Remember
PL 342.6	Develop and integrate strategies and techniques to cure psychological disorders	Create

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Course Outcomes

Course Name: Experimental Psychology

Course Code: PL 332

Year: 2019-2020

Semester: Spring

Faculty Name: Dr. Kedarmal Verma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PL 332.1	Examine the causal relationship between variables and predict the behavior	Apply
PL 332.2	Describe the sensory and perceptual processes	Understand
PL 332.3	Understand research designs, measurements and apply them to predict the behavior	Apply
PL 332.4	Explain concept of attention processes, understand basic attention theories	Understand
PL 332.5	Understand nature of learning, describe different learning theories	Understand

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Course Outcomes

Course Name: Practical

Course Code: PL 132

Year: 2018-19

Semester: Spring

Faculty Name: Richa Sharma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PL 132.1	Memory Using non sense syllables	Remember
PL 132.2		
PL 132.3	Maze learning	
PL 132.4		
PL 132.5	Sentence completion test	Evaluate
PL 132.6		

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Course Outcomes

Course Name: Psychology of Human Development-II

Course Code: PL 212

Year: 2019-2020

Semester: Spring

Faculty Name: Dr. Kedarmal Verma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PL 212.1	Understand the developmental aspects of infants, basic characteristics of infants	Understand
PL 212.2	Describe cognitive, social, moral development, interpret self-identity development	Understand
PL 212.3	Differentiate physical and psychological changes during adolescence, understand about developmental task	Understand
PL 212.4	Understand different developmental tasks of adulthood, learn to adjust to career, marriage, and family	Understand
PL 212.5	Identify adjustment problems and specific issues during old age, describe physical, psychological, physiological, and social changes during old age	Remember

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Course Outcomes

Course Name: Applied Psychology - II

Course Code: PL 222

Year: Second Year

Semester: Spring

Faculty Name: Dr Pragati Daga Dujari

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PL 222.1	Discussing the role of psychology in organizational setting and consumer behaviour	Understand
PL 222.2	Categorize the types of therapeutic interventions available in mental health and illustrating the same	Analyze
PL 222.3	Determine the difference between mental health, types of mental retardation, suggest ways of fostering mental health scenario in India	Apply
PL 222.4	Illustrating the role of social behavior in an individual and knowing the development of prejudice, stereotype and conflicts, suggest ways for conflict resolution.	Analyze
PL 222.5	Explain the role of psychologists in evaluating the personality traits and motivational problems of sportsmen	Understand
PL 222.6	Identify sources of stress and its management	Remember

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Course Outcomes

Course Name: Psychology Lab- IV

Course Code: PL 232

Year: Second

Semester: Spring

Faculty Name: Dr. Pragati Daga Dujari

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PL232.1	Describe key concepts, principles, and overarching themes in psychology.	Understand
PL 232.2	Measure a particular trait of an individual using a test or experiment, looking at the problem to be solved	Evaluate
PL 232.3	Demonstrate the procedure of conducting the test with details to the subject, ensuring major precautions to be taken.	Apply
PL 232.4	Compose effective writing skills and engage in active and meaningful discussion/dialogue on the particular topic.	Create
PL 232.5	Sketch ethical standards to evaluate psychological science and practice	Apply
PL 232.6	Generating effective interpretation of the test/ experiment with the help of scoring of the test used.	Create

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Course Outcomes

Course Name: Social Psychology-II

Course Code: PL 312

Year: 2019-2020

Semester: Spring

Faculty Name: Dr. Kedarmal Verma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PL 312.1	Understand, measure and predict the attitude of individuals	Apply
PL 312.2	Explain the process of impression formation	Understand
PL 312.3	Predict the attribution by using different theories	Apply
PL 312.4	Differentiate the prejudice and discrimination	Understand
PL 312.5	Explain the nature, and techniques of propaganda	Understand
PL 312.6	Summarize determinants, and understand how to manage aggression and violence	Understand
PL 312.7	Understand how social change happens, they will develop good interpersonal relationships in society	Understand

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Course Outcomes

Course Name: Counseling and Guidance

Course Code: PL 322

Year: Third Year

Semester: Spring

Faculty Name: Dr Pragati Daga Dujari

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PL 322.1	Demonstrate skills necessary for selecting and applying counseling strategies with respect to Indian context	Apply
PL 322.2	Interpret skills required at various stages of counseling, professional and ethical issues in counseling	Understand
PL 322.3	Differentiate between counseling and guidance and its types	Understand
PL 322.4	Determine various areas of counseling	Apply
PL 322.5	Assess the various counseling approaches	Evaluate
PL 322.6	Formulate the complete structure and essential skills of counseling session- start till the termination	Create

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Course Outcomes

Course Name: Experimental methodology & elementary statistics II

Course Code: PL 122

Year: 2019-20

Semester: Spring

Faculty Name: Monika Shekhawat

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PL 122.1	Explain the different types of experimental designs	Understand
PL 122.2	Discuss the nature and types of psychological scales, variability	Understand
PL 122.3	Compute product moment and rank order.	Apply
PL122. 4	Assess and compare the different measures of variability	Evaluate
PL 122.5	Outline and classify the probability and non-probability sampling methods.	Analyse
PL 122.6	Learn to calculate the quartile and standard deviation, chi square	Apply

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Course Outcomes

Course Name: Basic Psychological Processes

Course Code: PL 112

Year: 2018- 19

Semester: Spring

Faculty Name: Richa Sharma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PL 112.1	Explain the structure and functions of visual and auditory senses	Understand
PL 112.2	Discuss the nature and types of attention and perception	Understand
PL 112.3	Illustrate the principles of perceptual organisation in everyday life.	Apply
PL112. 4	Describe the Nature and type of Emotions	Understand
PL 112.5	Outline the Physiological correlates of emotion comparing the Theories of emotion: James- Lange, Cannon- Bard and Schachter-Singer.	Analyse
PL 112.6	Formulate the ways to enhance positive emotions.	Create

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Course Outcomes

Course Name: Practicum-II

Course Code: PL 552

Year: Second

Semester:

Faculty Name:

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PL552.1	Assess the personality and aptitude of the subject using projective techniques	Assess
PL 552.2	Evaluate the IQ of the subject using projective techniques.	Evaluate
PL 552.3	Measure the wellbeing of the subject	Measure
PL 552.4	Measure the defense mechanism of the subject	Measure
PL 552.5	Analyze, interpret and discuss the report on the basis of results and scores	Analyze
PL 552.6	Understand the usage of psychological tools in practice	Understand

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Course Outcomes

Course Name: Psychopathology

Course Code: PL 614

Year: Second Year 2019-20

Semester: Spring

Faculty Name: Dr. Pragati Daga Dujari

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PL 614.1	Recall the symptoms, etiology and prognosis of various substance use & personality disorders	Remember
PL 614.2	Demonstrate the types, causes, clinical features and treatment of mood disorder.	Apply
PL 614.3	Define the types, symptoms, causes, treatment of schizophrenia, and delusional disorder	Understand
PL 614.4	Summarize etiology of sexual disorder and performance anxiety, gender dysphoria and homosexuality	Understand
PL 614.5	Illustrate the behavioral , emotional and developmental disorder of childhood and adolescence	Analyze
PL 614.6	Assess how the body ages, psychological disorders in old age and stress management strategies	Evaluate

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Course Outcomes

Course Name: Engineering Psychology

Course Code: PL662

Year:

Semester: Spring

Faculty Name:

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PL 662.1	Understand human engineering	Understand
PL 662.2	Describe man-machine system	Describe
PL 662.3	Measure work efficiency	Measure
PL 662.4	Apply measures of safety at workplace	Apply
PL 662.5	Understand concept of work and fatigue	Understand
PL 662.6	Analyze effect personnel training on performance	Analyze

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Course Outcomes

Course Name: Psychotherapies and Counseling

Course Code: PL 624

Year: Second Year

Semester: Spring

Faculty Name: Dr Pragati Daga Dujari

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PL 624.1	explain the meaning, nature, goals and difference between psychotherapy and counseling	Understand
PL 624.2	Illustrate the history and basic psychoanalytical therapy and brief orientation of psychoanalytic psychologies	Apply
PL 624.3	Justify the meaning, nature and various strategies involved in behaviour therapy	Evaluate
PL 624.4	Examine the cognitive therapies critically	Apply
PL 624.5	Categorize the basic nature and goals of humanistic, transpersonal and existential therapies.	Evaluate
PL 624.6	Choose the most effective therapy to be used in treatment of a particular disorder	Analyze

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Course Outcomes

Course Name: Health Psychology

Course Code: PL 622

Year: 2019-2020

Semester: Spring

Faculty Name: Dr. Kedarmal Verma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PL 622.1	Understand and interpret the mental and physical health concept	Understand
PL 622.2	Understand about the healthy diet and they will be apply all the guidelines to improve their overall health	Apply
PL 622.3	Interpret different kind of exercises and apply them to improve their health	Apply
PL 622.4	Understand women health issues	Understand
PL 622.5	Understand health behavior, apply different preventive measure, and modify health behavior	Apply

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Course Outcomes

Course Name: Dynamics of Organizational Behavior

Course Code: PL672

Year:

Semester: Spring

Faculty Name:

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PL 672.1	Develop connectivity between concepts and practices of organizations	Develop
PL 672.2	Describe major topics and subspecialties including critical theory and research finding that have defined the field of I/O psychology	Describe
PL 672.3	Measure personnel performance through different criteria	Measure
PL 672.4	Apply procedures and assessment methods for personnel selection	Apply
PL 672.5	Understand purpose and importance of performance appraisal system	Understand
PL 672.6	Analyze effect personnel training on performance	Analyze

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Course Outcomes

Course Name: Practical of Industrial and Organizational Behavioral

Course Code: PL682

Year:

Semester: Spring

Faculty Name:

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PL 682.1	Understand difference between tests and experiments	Understand
PL 682.2	Evaluate the leadership behavior and occupational stress	Evaluate
PL 682.3	Measure the fears of the subject	Measure
PL 682.4	Measure the emotions of the subject	Measure
PL 682.5	Analyze, interpret and discuss the report on the basis of results and scores	Analyze
PL 682.6	Understand the usage of psychological tools in practice	Understand

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Course Outcomes

Course Name: Experimental Methodology & Elementary Statistics – I

Course Code: PL121

Year: 2019-2020

Semester: Autumn

Faculty Name: Dr. Kedarmal Verma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PL 121.1	Create different experiments in Psychology and understand various research methods	Create
PL 121.2	Create research problems and hypothesis	Create
PL 121.3	Understand research variables, their nature and types	Understand
PL 121.4	Describe the purpose, nature of statistics in psychological research	Describe
PL 121.5	Analyze psychological data in different formats	Analyze
PL 121.6	Analyze central tendencies in psychological research	Analyze
PL 121.7	Understand the importance and reliability of statistics	Understand

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Course Outcomes

Course Name: Applied Psychology-I

Course Code: PL 231

Year: 2019-2020

Semester: Autumn

Faculty Name: Dr. Kedarmal Verma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PL 231.1	Understand the nature and importance of applied psychology	Understand
PL 231.2	Analyze the role of guidance psychologists	Analyze
PL 231.3	Create awareness regarding the field of education	Create
PL 231.4	Analyze the role of Counseling psychologists	Analyze
PL 231.5	Apply knowledge to help and understand community	Apply
PL 231.6	Describe the contribution of psychologists in the area of mental health and wellbeing	Remember

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Course Outcomes

Course Name: Psychology Lab-III

Course Code: PL 241

Year: 2019-2020

Semester: Autumn

Faculty Name: Dr. Kedarmal Verma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PL 241.1	Analyze, interpret and discuss the report on the basis of results and scores	Analyze
PL 241.2	Understand the usage of psychological tools in practice	Understand
PL 241.3	Measure anxiety and anger	Apply
PL 241.4	Measure psychological needs for counseling	Apply
PL 241.5	Measure stress	Apply
PL 241.6	Analyze types of parenting	Analyze

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Course Outcomes

Course Name: Social Psychology-I

Course Code: PL 311

Year: 2019-2020

Semester: Autumn

Faculty Name: Dr. Kedarmal Verma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PL 311.1	Understand the nature and scope of social psychology	Understand
PL 311.2	Analyze the major theories, concepts, empirical findings, methods and techniques used in social psychology	Analyze
PL 311.3	Analyze how psychological theory and empirical research are used to help explain socialization process, and human behavior in individuals and groups	Analyze
PL 311.4	Create awareness regarding social norms, and social behavior	Create
PL 311.5	Understand the importance of leadership	Understand
PL 311.6	Create awareness regarding social issues	Create

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Course Outcomes

Course Name: Industrial and Organizational Psychology-I

Course Code: PL 351

Year: 2019-2020

Semester: Autumn

Faculty Name: Dr. Kedarmal Verma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PL 351.1	Develop connectivity between concepts and practices of organizations	Create
PL 351.2	Describe major topics and subspecialties including critical theory and research finding that have defined the field of I/O psychology	Understand
PL 351.3	Measure personnel performance through different criteria	Apply
PL 351.4	Apply procedures and assessment methods for personnel selection	Apply
PL 351.5	Understand work environment	Understand
PL 351.6	Analyze effect of working environment of performance	Analyze

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Course Outcomes

Course Name: Psychological Testing-I

Course Code: PL 361

Year: 2019-2020

Semester: Autumn

Faculty Name: Dr. Kedarmal Verma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PL 361.1	Understand the nature of different psychological tests	Understand
PL 361.2	Apply methods of test development in construction of a psychological tool	Apply
PL 361.3	Describe the role of researcher in psychology.	Remember
PL 361.4	Apply methods of test development in Construction and Standardization of Psychological Tests	Apply
PL 361.5	Understand the nature of descriptive statistics	Understand
PL 361.6	Apply tests and other assessment tools to measure and observe a client's behavior to arrive at a diagnosis and guide treatment.	Apply

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Course Outcomes

Course Name: Psychology Laboratory - V

Course Code: PL 371

Year: 2019-2020

Semester: Autumn

Faculty Name: Dr. Kedarmal Verma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PL 371.1	Assess the personality of the subject	Evaluate
PL 371.2	Evaluate the attitude of the subject	Evaluate
PL 371.3	Measure the family environment of the subject	Evaluate
PL 371.4	Measure the attention span of the subject	Evaluate
PL 371.5	Analyze, interpret and discuss the report on the basis of results and scores	Analyze
PL 371.6	Understand the usage of psychological tools in practice	Understand

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Course Outcomes

Course Name: Advanced General Psychology – I

Course Code: PL511

Year: 2019-2020

Semester: Autumn

Faculty Name: Dr. Kedarmal Verma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PL 511.1	Understand basic concepts of psychology, different research methods	Understand
PL 511.2	Describe the biological base of behavior	Describe
PL 511.3	Understand sensory-perceptual processing, and different methods used in experimental psychology	Understand
PL 511.4	Understand the concepts, theories, and types of learning, and also the neurophysiology of learning	Understand
PL 511.5	Describe the different models of memory, memory processing, types of memory, biological basis of memory	Describe

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Course Outcomes

Course Name: Applied Psychology-I

Course Code: PL 521

Year: 2019-2020

Semester: Autumn

Faculty Name: Dr. Kedarmal Verma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PL 521.1	Understand the nature and importance of applied psychology	Understand
PL 521.2	Create awareness regarding the field of education	Create
PL 521.3	Analyze the role of clinical psychologists	Analyze
PL 521.4	Describe the contribution of psychologists in the area of mental health and wellbeing.	Remember
PL 521.5	Understand work of psychologists towards gender and identity	Understand
PL 521.6	Apply knowledge to help and understand community	Apply

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Course Outcomes

Course Name: Systems of Psychology

Course Code: PL 531

Year: 2019-2020

Semester: Autumn

Faculty Name: Dr. Kedarmal Verma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PL 531.1	Create insight of the contribution of different schools of Psychology	Create
PL 531.2	Understand the importance of the work of behaviorists	Understand
PL 531.3	Develop knowledge of the work of Sigmund Freud	Create
PL 531.4	Describe Gestalt school of Psychology	Remember
PL 531.5	Analyze the role of neo psychoanalysts in psychology	Analyze
PL 531.6	Evaluate contribution of humanistic-existential psychologists	Evaluate

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Course Outcomes

Course Name: Psychodiagnostics

Course Code: PL 623

Year: 2019-20

Semester: Autumn

Faculty Name: Dr. Pragati Daga Dujari

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
623.1	Identify the scope, role and issues in clinical psychology.	Remember
623.2	Explain various clinical assessment strategies available	Understand
623.3	Categorize various tests used in clinical settings	Analyse
623.4	Recommend a test to be used for a client in clinical setting from various tests available	Evaluate
623.5	Assess various self rated and observer rated rating scale in clinical setting	Evaluate
623.6	Justify various techniques of neuropsychological assessment	Evaluate

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Course Outcomes

Course Name: Practical of Clinical Psychology - I

Course Code: PL633

Year: 2019-2020

Semester: Autumn

Faculty Name: Dr. Pragati Dujari Daga

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PL 633.1	Understand difference between tests and experiments	Understand
PL 633.2	Evaluate the stress and anxiety	Evaluate
PL 633.3	Measure the fears of the subject	Measure
PL 633.4	Measure the emotions of the subject	Measure
PL 633.5	Analyze, interpret and discuss the report on the basis of results and scores	Analyze
PL 633.6	Understand the usage of psychological tools in practice	Understand

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Course Outcomes

Course Name: Advanced Industrial Psychology

Course Code: PL661

Year: 2019-2020

Semester: Autumn

Faculty Name: Dr. Pragati Dujari Daga

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PL 661.1	Understand the Definition, role, Nature and scope, Origin and History of industrial psychology	Understand
PL 661.2	Understand the importance and uses of job analysis, Various methods of job analysis, Job design approaches and job enrichment	Understand
PL 661.3	Create awareness about recruitment and selection, recruitment process, stages in selection process, and selection method	Create
PL 661.4	Describe nature and principals of training, Assessing training needs, Training methods	Describe
PL 661.5	Understand Purpose, importance, Uses of Performance appraisal, Methods of evaluating Performance appraisal	Understand

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Course Outcomes

Course Name: Dynamics of Organizational Behaviour - I

Course Code: PL671

Year: 2019-2020

Semester: Autumn

Faculty Name: Dr. Pragati Dujari Daga

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PL 671.1	Understand the meaning and importance of organization behavior	Understand
PL 671.2	Describe the theories of motivation, determinants of job satisfaction, organizational commitment, citizenship behavior and organizational justice	Describe
PL 671.3	Create their leadership qualities	Create
PL 671.4	Create directions of communication in organization, directions and methods of improving communications	Create
PL 671.5	Understand nature of decision making, behavioural decision making etc.	Understand

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Course Outcomes

Course Name: Practical of Industrial & Organizational Psychology - I

Course Code: PL681

Year: 2019-2020

Semester: Autumn

Faculty Name: Dr. Pragati Dujari Daga

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PL 681.1	Understand difference between tests and experiments	Understand
PL 681.2	Evaluate the leadership behavior and occupational stress	Evaluate
PL 681.3	Measure the fears of the subject	Measure
PL 681.4	Measure the emotions of the subject	Measure
PL 681.5	Analyze, interpret and discuss the report on the basis of results and scores	Analyze
PL 681.6	Understand the usage of psychological tools in practice	Understand

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Course Outcomes

Course Name: Advanced Cognitive Psychology

Course Code: PL 611

Year: 2019-20

Semester: Autumn

Faculty Name: Dr. Pragati Daga Dujari

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
611.1	Explain the general terms , introduction to psychology & various schools of psychology	Understand
611.2	Define cognitive psychology and its research methods	Remember
611.3	Determine the mechanism of nervous system and its neurophysiology in cognitive psychology ie. thinking, perception, attention, language , memory, intelligence	Apply
611.4	Assess the different theories of cognitive psychology in thinking, perception, attention, language , memory, intelligence.	Evaluate
611.5	Illustrate the practical applications of cognitive psychology in processes like creativity, problem solving, language, perception and memory, intelligence.	Apply
611.6	Interpret the various models and processes of cognition	Understand

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Course Outcomes

Course Name: Life Span Developmental Psychology

Course Code: PL 541

Year: 2019-2020

Semester: Autumn

Faculty Name: Dr. Pragati Dujari Daga

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PL 541.1	Understand Meaning, nature, purpose, scope, and methods in developmental psychology	Understand
PL 541.2	Understand Pre-natal and Neonate development	Understand
PL 541.3	Describe Infancy and Childhood developmental milestones, cognitive, motor, moral, social, emotional, language development.	Describe
PL 541.4	Understand physical and psychological changes, Developmental task of adolescent, Problems of adolescent	Understand
PL 541.5	Understand development changes occur during adulthood and old age	Understand

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Course Outcomes

Course Name: Practical-I

Course Code: PL 551

Year: 2019-2020

Semester: Autumn

Faculty Name: Dr. Kedarmal Verma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PL 551.1	Assess the personality and aptitude of the subject	Evaluate
PL 551.2	Evaluate the memory and IQ of the subject	Evaluate
PL 551.3	Measure the Perception of the subject	Evaluate
PL 551.4	Measure the attention span of the subject	Evaluate
PL 551.5	Analyze, interpret and discuss the report on the basis of results and scores	Analyze
PL 551.6	Understand the usage of psychological tools in practice	Understand

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Course Outcomes

Course Name: Psychopathology-I

Course Code: PL 341

Year: 2019-20

Semester: Autumn

Faculty Name: Dr. Pragati Daga Dujari

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
341.1	Tabulate the criteria for determining normality and abnormality	Remember
341.2	Summarize the various models of psychopathology , theoretical implications and treatment	Understand
341.3	Predict the various classification systems and their revision along with various diagnostic assessment techniques available	Apply
341.4	Assess the types, theoretical approaches and treatment of anxiety disorders	Evaluate
341.5	Compare the various psychophysiological disorders	Evaluate
341.6	Infer nature, types causes of Mental retardation	Analyse

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Course Outcomes

Course Name: Systems of Psychology

Course Code: PL 331

Year: 2019-20

Semester: Autumn

Faculty Name: Dr. Pragati Daga Dujari

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
331.1	Summarize the nature and evolution of psychology.	Understand
331.2	Categorize the schools of psychology and major contributors in every school	Analyse
331.3	Assess the concepts and theories of intelligence and learning	Evaluate
331.4	Compare the freudian , neo freudian and non- freudian theories of personality	Evaluate
331.5	State the basic concept and models of memory	Remember
331.6	Ilustrate how language is developed and related theories	Apply

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Course Outcomes

Course Name: Biological Bases of Behaviour

Course Code: PL 321

Year: 2019-20

Semester: Autumn

Faculty Name: Dr. Pragati Daga Dujari

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
321.1	Identify the various methods of studying physiological psychology	Remember
321.2	Summarize structure types functions of neurons	Understand
321.3	Classify the types of nervous system and endocrine glands	Analyse
321.4	Compare between sleep, arousal and dreaming	Evaluate
321.5	Differentiate neuro physiology of learning, memory and motivation	Understand
321.6	Examine the neural mechanism of hunger, thirst and sex	Apply

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Course Outcomes

Course Name: Psychology of Human Development-I

Course Code: PL 221

Year: 2019-20

Semester: Autumn

Faculty Name: Dr. Pragati Daga Dujari

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
221.1	Discuss the major difference and principles between growth, maturation and development along with developmental tasks.	Understand
221.2	Justify the nature versus nurture debate, with evidences of research studies	Evaluate
221.3	Tabulate a broad working knowledge of using methodological approaches of developmental psychology	Remember
221.4	Identify the major theorists that contribute to the field of developmental psychology	Remember
221.5	Infer the stages and factors affecting prenatal development	Analyse
221.6	Explain the physical, sensory and motor capacities alongwith the hazards associated during neonate and infancy stage	Understand

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Course Outcomes

Course Name: Advanced Cognitive Psychology

Course Code: FS 611

Year: 2019-20

Semester: Autumn

Faculty Name: Dr. Pragati Daga Dujari

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
611.1	Explain the general terms , introduction to psychology & various schools of psychology	Understand
611.2	Define cognitive psychology and its research methods	Remember
611.3	Determine the mechanism of nervous system and its neurophysiology in cognitive psychology ie. thinking, perception, attention, language , memory, intelligence	Apply
611.4	Assess the different theories of cognitive psychology in thinking, perception, attention, language , memory, intelligence.	Evaluate
611.5	Illustrate the practical applications of cognitive psychology in processes like creativity, problem solving, language, perception and memory, intelligence.	Apply
611.6	Interpret the various models and processes of cognition	Understand

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Course Outcomes

Course Name: Psychology Lab. - I

Course Code: PL131

Year: 2019-2020

Semester: Autumn

Faculty Name: Dr. Pragati Dujari Daga

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PL 131.1	Assess the personality of the subject	Assess
PL 131.2	Evaluate the attitude of the subject	Evaluate
PL 131.3	Measure the family environment of the subject	Measure
PL 131.4	Measure the attention span of the subject	Measure
PL 131.5	Analyze, interpret and discuss the report on the basis of results and scores	Analyze
PL 131.6	Understand the usage of psychological tools in practice	Understand

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Course Outcomes

Course Name: Positive Psychology

Course Code: PL213

Year: 2019-2020

Semester: Autumn

Faculty Name: Dr. Pragati Dujari Daga

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PL 213.1	Understand the concepts of positive psychology	Understand
PL 213.2	Analyze different emotional states	Analyze
PL 213.3	Understand the pro-social behavior	Understand
PL 213.4	Determine the importance of well-being	Determine
PL 213.5	Apply spiritual aspect to develop positivity	Apply
PL 213.6	Understand positive cognitive states and processes	Understand

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Course Outcomes

Course Name: Basic Psychological Processes-I

Course Code: PL 111

Year: 2019-20

Semester: Autumn

Faculty Name: Dr. Pragati Daga Dujari

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PL111.1	Identify the various approaches, fields, and subfields of psychology along with their major concepts and important figures	Remember
PL111.2	Assess the strengths and weaknesses of descriptive, experimental, and correlational research; and various methods used in psychology	Evaluate
PL111.3	Explain motivation, how it is influenced, and major theories about motivation and types of confict.	Understand
PL111.4	Infer the basic theories of learning and how the theory can be used in day to day life.	Analyse
PL111.5	Define personality and the contributions of Freud and neo-Freudians to personality theory	Remember
PL111.6	Demonstrate the principles of psychology in day to day life for a better understanding of themselves and others	Apply

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Course Outcomes

Course Name: Practical of Clinical Psychology - II

Course Code: PL634

Year: 2019-20

Semester: Autumn

Faculty Name:

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
PL 634.1	Understand difference between attitude and aptitude	Understand
PL 634.2	Evaluate the group preference	Evaluate
PL 634.3	Measure the personality of the subject	Measure
PL 634.4	Measure the emotional maturity of the subject	Measure
PL 634.5	Analyze, interpret and discuss the report on the basis of results and scores	Analyze
PL 634.6	Understand the usage of psychological tools in practice	Understand

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Course Outcomes

Course Name: Psychopathology-I

Course Code: PL 613

Year: 2019-20

Semester: Autumn

Faculty Name: Dr. Pragati Daga Dujari

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
613.1	Differentiate between the concepts of normality and abnormality.	Understand
613.2	Tabulate DSM and ICD guidelines.	Remember
613.3	Summarize the various models of psychopathology , theoretical implications and treatment	Understand
613.4	Assess the types, theoretical approaches and treatment of anxiety disorders	Evaluate
613.5	Compare the various psycho-physiological disorders	Evaluate
613.6	Predict etiology, symptoms, diagnosis and treatment of organic mental disorders	Apply

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Course Outcomes

Course Name: Reliability Theory

Course Code: MS 681

Year: 2nd year M.Sc. (Mathematics) / M.A. (Mathematics)

Semester: 3rd

Faculty Name: Dr. Garima Sharma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MS.681.1	Define the Reliability, Availability and Maintainability, Redundancy	Remember
MS.681.2	Explain mathematical approach of Reliability, MTTF, MTBF, Redundancy, and series and non-series parallel system. Hazard models	Understand
MS.681.3	Solve the problems related to Distributions, Reliability and Redundancy.	Apply
MS.681.4	Analyse the Techniques in types of probability distributions, Redundancy Techniques	Analyse
MS.681.5	Compare Reliability, Maintainability and Availability	Evaluate
MS.681.6	Create the systems and reliability models, Reliability Testing	Create

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Course Outcomes

Course Name: Special Functions and Integral Equations

Course Code: MS 641

Year: 2nd year M.Sc. (Mathematics) / M.A. (Mathematics)

Semester: 3rd

Faculty Name: Dr. Garima Sharma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MS.641.1	Define the different aspects Integral equations, Types of Integral equations, Kernels, Types of Kernels, special functions	Remember
MS.641.2	Process of solving Integral equations, Recurrence Relations of special functions.	Understand
MS.641.3	Solve the problems related to Integral equations and special functions.	Apply
MS.641.4	Analyse the Techniques in different equations and special functions.	Analyse
MS.641.5	Compare the Integral equations and special functions.	Evaluate
MS.641.6	Create Integral equations by differential equations and solve by using Laplace transform.	Create

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Course Outcomes

Course Name: Operations Research

Course Code: MS-541

Year: 1st year M.Sc. (Mathematics) / M.A. (Mathematics)

Semester: 1st

Faculty Name: Dr. Garima Sharma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MS.541.1	Define the different aspects of Operations Research, Queuing Theory, Inventory Theory, PERT-CPM, Dynamic Programming and Game Theory.	Remember
MS.541.2	Explain Queuing Models, Inventory Models and Replacement Models	Understand
MS.541.3	Solve the problems related to Queuing Models, Inventory Models, Job sequencing, Game Theory etc	Apply
MS.541.4	Analyse the Techniques in different Models	Analyse
MS.541.5	Compare Queuing Models, Inventory deterministic models , Inventory probabilistic models	Evaluate
MS.541.6	Create the PERT network, Queuing models and Inventory models	Create

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Course Outcomes

Course Name: Complex Analysis and Integral Transform

Course Code: MS 522

Year: 1st year (M.Sc.)

Semester: 2nd

Faculty Name: Dr. Garima Sharma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MS.522.1	Define the different aspects of Analytic functions, Laplace Transform, Mellin Transform, Hankel transform.	Remember
MS.522.2	Explain the calculations of Integration in the complex plane, Laplace Transform, Hankel Transform and Mellin Transform.	Understand
MS.522.3	Solve the problems related to Laplace Transform, Mellin Transform, and Hankel Transform.	Apply
MS.522.4	Analyse Laplace Transform, Hankel Transform, and Mellin Transform for different problems and for the solutions of ODE and PDE.	Analyse
MS.522.5	Compare all the aspects of the Laplace Transform, Mellin Transform and Hankel Transform with the applications.	Evaluate
MS.522.6	May integrate the fundamentals of Laplace Transform in the RLC (Resonant Circuit).	Create

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Course Outcomes

Course Name: Optimization Theory

Course Code: MS-311

Year: 3rd -Yr (B.Sc)

Semester: 5th

Faculty Name: Dr. Garima Sharma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MS.322.1	Define the different aspects of Operations Research and Optimization Techniques.	Remember
MS.322.2	Explain the different techniques (LPP, Transportation Problem, Assignment Problem and Game Theory)	Understand
MS.322.3	Solve the problems related to Optimization Techniques	Apply
MS.322.4	Analyse the Techniques in different field	Analyse
MS.322.5	Compare all techniques to each other	Evaluate
MS.322.6	Create the self-real life problem and optimize it	Create

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Course Outcomes

Course Name: Basic Mathematics

Course Code: CH 283

Year: 3rd year B.Sc. (CBZ)

Semester: 5th

Faculty Name: Dr. Garima Sharma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH 283.1	Define the different aspects functions, Coordinate Geometry, Probability, Vectors.	Remember
CH 283.2	Process of solving Differentiation, Integration, Permutation, Combination	Understand
CH 283.3	Solve the problems related to Differentiation, Integration and Vectors.	Apply
CH 283.4	Analyse the Techniques in different differential equations, probability, permutation and combination.	Analyse
CH 283.5	Compare the problems related to permutation and combination.	Evaluate
CH 283.6	Create differential equations and solve by different methods.	Create

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Course Outcomes

Course Name: Mathematics and Statistics for Biology

Course Code: BT 241

Year: 3rd year B.Sc. (Biotech.,CBZ, MB and F & N)

Semester: 5th

Faculty Name: Dr. Garima Sharma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MS.641.1	Define the different aspects logarithm function, permutation and combination, probability, derivatives and integrations	Remember
MS.641.2	Process of calculate derivatives and integration.	Understand
MS.641.3	Solve the problems related to mean, median and mode, mean deviation, standard deviation, correlation coefficient and regression coefficient.	Apply
MS.641.4	Analyse the Techniques in different situation of permutation and combination probability.	Analyse
MS.641.5	Compare the measures of central tendency and dispersion.	Evaluate
MS.641.6	Create own problem and apply permutation, combination and probability.	Create

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Course Outcomes

Course Name: Research Methodology-I

Course Code: BP 252

Year: 2nd Year

Semester: 4th

Faculty Name: Dr. Garima Sharma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MS.212.1	Define the different aspects of Research Methodology, sampling design, Method of data collection, Test of hypothesis	Remember
MS.212.2	Explain the different techniques of data collection, test of hypothesis and sampling	Understand
MS.212.3	Solve the problems related to sampling and test of hypothesis	Apply
MS.212.4	Analyse the Techniques in different field	Analyse
MS.212.5	Compare all tests of sampling	Evaluate
MS.212.6	Create the self-real life problems related to a sampling, data collection	Create

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Course Outcomes

Course Name: Statistics and probability -II

Course Code: MS 552

Year: First yr

Semester: II[nd]

Faculty Name: Kiran Singh Bais

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MS.552.1	Identify types of errors, hypothesis, sample size, types of data is given.	Remember
MS.552.2	Define the types of data(discrete or continuous),distribution which will apply according to the data, signals type	Understand
MS.552.3	Evaluate the random processes, different types of distributions,, cyclical movement, regular movements, long cycles movements.	Evaluate
MS.552.4	Analyse time series, random processes, ,chi-test, F-distributions, student's t distributions.	Analyse
MS.552.5	Calculate the confidence interval, critical region, mean, variance of sample and populations,, sine wave random processes.	apply
MS.552.6	Derive time series, critical region, acceptance region, Markov chain.	Create

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Course Outcomes

Course Name: Statistics and Probability-I.

Course Code: MS 551

Year: I[st] M.Sc.

Semester: I[st]

Faculty Name: Kiran Singh Bais

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MS.551.1	Remember the basics of probability, measures of dispersion, properties	Remember
MS.551.2	Analyse the conditional probability, simple and partial correlations, errors of estimate.	Analyse
MS.551.3	Apply the laws of probability, Baye's theorem, total probability theorem, distributions and properties.	Apply
MS.551.4	Evaluate cumulative distribution functions, moments, covariance, mgf, correlation between the variables	Evaluate
MS.551.5	Analyse the linear and non linear regression and distribution of given data	Analyse
MS.551.6	Create and calculate transformation of random variables and angle between the lines of regression.	Create

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Course Outcomes

Course Name: Analytical Solid Geometry

Course Code: MS 361

Year: III (B.Sc. Hons.)

Semester: Spring

Faculty Name: Dr. Kiran Singh Bais

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MS 361.1	Understand basic concepts of three dimensional geometry, direction cosines and direction ratios of a line. Different form of plane and straight lines,	Understand
MS 361.2	Apply concepts of dc's and dr's to find angle between two lines and planes, projection and shortest distance.	Apply
MS 361.3	Evaluate tangent plane, equation of normal, director sphere, polar plane and pole of the plane.	Evaluate
MS 361.4	Evaluate equation of the cone with given vertex and a given conic for its base, angle between the lines in which a plane cuts a con, tangent lines and tangent plane, reciprocal con, right circular con, different form of cylinder, equation of tangent plane, enveloping cylinder, right circular cylinder.	Evaluate
MS 361.5	Remember standard forms of planes, straight line , spheres, cone and cylinders, conicoids etc,	Remember
MS 361.6	Understand the basics of ellipsoid, hyperboloid of one and two sheets, elliptic paraboloid , hyperbolic paraboloid,	Understand

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Course Outcomes

Course Name: Computer Based Advanced Numerical Analysis

Course Code: MS 511

Year: I (M.Sc. Mathematics)

Semester: Autumn

Faculty Name: Dr. Kiran Singh Bais

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MS 511.1	Understand basic concepts of Existence of solution of system of equations, ill-conditioned system and convergence of iteration methods.	Understand
MS 511.2	Apply different iterative method to solve system of linear equations, boundary value problems.	Apply
MS 511.3	Evaluate roots of equations by Newton-Raphson method, Graeffe's root squaring method, Muller's method , Bairstow iterative method.	Evaluate
MS 511.4	Understand algebraic and transcendental equations, different boundary value problems.	Understand
MS 511.5	Remember different types of partial differential equations, parabolic, hyperbolic and elliptic equations.	Remember
MS 511.6	Understand the curve fitting and regression, least square method, fitting of straight line and second order polynomials.	Understand

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Course Outcomes

Course Name: Probability and Statistics

Course Code: MS.351

Year: III Yr (B.Sc.(Horns))

Semester: V th

Faculty Name: Kiran Singh Bais

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MS.332.1	Remember the basics of probability, simple and composite hypothesis, type-I and type-2 errors.	Remember
MS.332.2	Understand the measures of dispersion, skewness and correlation.	Understand
MS.332.3	Apply Baye's theorem, total probability, normal and uniform distribution	Apply
MS.332.4	Analyse the regression, distribution of random variables	Analyse
MS.332.5	Evaluate the mean ,mode, median, mass and density of the functions.	Evaluate
MS.332.6	Create the relation between the variables and formation of PDE	Create

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Course Outcomes

Course Name: Advanced Calculus

Course Code: MS332

Year: Third Yr

Semester: VI

Faculty Name: Kiran Singh Bais

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MS.332.1	Define Functions, continuity, integral, power series, Partial differential equation.	Remember
MS.332.2	Explain the convergence, implicit function, Taylors's series with remainder indeterminate forms, Definite integral.	Understand
MS.332.3	Solve Power Series (tests for convergence, region of convergence, uniform convergence), Partial differential equation, Beta gamma function, Jacobians.	Apply
MS.332.4	Analyse Partial Differentiation- Euler's theorem on homogeneous functions, Directional derivative, higher differential, implicit functions,	Analyse
MS.332.5	Calculate functions expansion, directional derivatives, finite and infinite Integral.	Evaluate
MS.332.6	Derive Change of variables, differentiation of a definite integral, theorems.	Create

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Course Outcomes

Course Name: Special functions and transforms

Course Code: MS-312

Year: III-Yr (B.Sc. (PCM))

Semester: VIth

Faculty Name: Kiran Singh Bais

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MS.312.1	Define Legendre,Bessal's,laplace and fourier series.	Remember
MS.312.1	Explain Generating function, Orthogonal property Half rang fourier series and laplace transform method.	Understand
MS.312.2	Solve Recurrence relations, Rodrigue's formula, Ordinary differential equation and fourier transform.	Apply
MS.312.3	Analyse the dirac-delta function, convolution theorem, fourier transform.	Analyse
MS.312.4	Evaluate the function by fourier series ,solution of legendre and bessels equation,	create

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Course Outcomes

Course Name: Numerical Analysis

Course Code: MS212

Year: Second

Semester: IV

Faculty Name: Kiran Singh Bais

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MS.212.1	Identify the iterative method, numerical methods and interpolation.	Remember
MS.212.2	Describe the given data and apply the suitable forward ,backward and central interpolation	Understand
MS.212.3	Apply forward, backward, central interpolation and Simpsons rule.	Apply
MS.212.4	Classify the problems based on finding roots between two values by applying iterative methods, finding intermediate values by using interpolation and integration by using Simpson's rule	Analyse
MS.212.5	Evaluate the functions value by applying iterative method, numerical methods and interpolation	Evaluate
MS.212.6	Derive the Bessel's and striling's formula and central difference formulae.	Create

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Course Outcomes

Course Name: **Mathematics for Chemists**

Course Code: CH 551

Year: I (M.Sc. Chemistry)

Semester: Autumn

Faculty Name: Dr. Kiran Singh Bais

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH 551.1	Understand basic concepts of matrix algebra, Addition and multiplication; inverse, ad joint and transpose of matrices. Functions, continuity and differentiability.	Understand
CH 551.2	Apply to solve linear equations and conditions for the solution, linear dependence and independence, maxima and minima, chemical kinetics, secular equilibrium, quantum chemistry etc, second order differential equation and their solutions.	Apply
CH 551.3	Evaluate Permutations and combinations, probability, average, root means square and most probable errors.	Evaluate
CH 551.4	Understand basic rules for integration, integration by parts, partial fraction and substitution. Reduction formulae, applications of integral calculus.	Understand
CH 551.5	Remember standard types of matrices (Symmetric, skew-symmetric, Hermitian, Skew-Hermitian, unit, diagonal, unitary etc.)	Remember
CH 551.6	Understand concepts of curve fitting (including least squares fit etc) with a general polynomial fit.	Understand

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Course Outcomes

Course Name: Biostatistics

Course Code:BT581

Year: I[st] yr

Semester: I[st]

Faculty Name: Kiran Singh Bais

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BT581.1	Remember arithmetic, Geometric, harmonic properties, classification of data, kurtosis.	Remember
BT581.2	Analyse the types of frequency graph, correlation between variables, skewness.	Analyse
BT581.3	Apply the mathematical properties of standard deviations, tests and distributions	Apply
BT581.4	Evaluate the angle between the regression lines, area under the normal curve, rank correlation, coefficient of variation, measures of dispersion.	Evaluate
BT581.5	Analyse the primary and secondary data	Analyse
BT.581.6	Create the graph and curve	Create

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Course Outcomes

Course Name: Virology and Mycology

Course Code: MB 521

Year: 2019-20

Semester: Autumn

Faculty Name: Dr. Rakesh Kumar Verma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MB521.1	Describe the distinctive characteristics of viruses, bacterio-phage and fungi including their classification, morphology and structures	Remember
MB521.2	Demonstrate the general methods for diagnosis and cultivation of viruses	Apply
MB521.3	Explain viral replication strategies; and compare and contrast replication mechanisms used by bacterial viruses	Understand
MB521.4	Describe the effect of viruses on plant morphology and cytology as well as explain their life cycles	Understand
MB521.5	Describe the life cycle and pathogenicity of Animal viruses	Understand
MB521.6	Outline the importance of VAM and lichens and discuss the life cycles of fungi and associated diseases	Apply

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Course Outcomes

Course Name: Nutraceuticals and Functional Foods

Course Code: FN542

Year: 2019-2020

Semester: Spring

Faculty Name: Dr. Rakesh Kumar Verma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FN542.1	Define the nutraceuticals, functional foods, prebiotics and probiotics	Remember
FN542.2	Explain the major bioactive food constituents that are being incorporated into nutraceuticals and functional foods and know their benefits	Understand
FN542.3	Analyze the prebiotics and probiotics and describe the microbiota of GI tract and their impact on maturation of immune system	Analyze
FN542.4	Outline the technologies, legal requirements, and marketing issues for functional food development in India	Analyze
FN542.5	Evaluate the standards of evidence required for efficacy and safety assessment of nutraceutical and functional foods	Evaluate
FN542.6	Demonstrate the knowledge of the scientific basis and technologies available to suggest potential new functional food products	Apply

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Course Outcomes

Course Name: Basic Research Methodology

Course Code: FN 541

Year: 2019-20

Semester: Autumn

Faculty Name: Dr. Rakesh Kumar Verma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FN541.1	Describe the various kinds of research, objectives of doing research, research process, and criteria for good research	Understand
FN541.2	Evaluate and interpret current literature in the nutrition research and explain meaning and need of a research design	Evaluate
FN541.3	Apply the understanding of feasibility and practicality of research methodology for a research problem	Apply
FN541.4	Describe sampling methods, and criteria for selecting a sampling procedure as well as use the methods for data collection	Understand
FN541.5	Understand the basic principles and regulations in humans and animal research	Understand
FN541.6	Analyze, identify, compare and prepare the key elements of a research report and research paper	Analyze

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Course Outcomes

Course Name: Nutraceuticals and Health Foods

Course Code: FN332

Year: 2019-2020

Semester: Spring

Faculty Name: Dr. Rakesh Kumar Verma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FN332.1	Define the nutraceuticals, functional foods, prebiotics and probiotics	Remember
FN332.2	Explain the major bioactive food constituents that are being incorporated into nutraceuticals and functional foods and know their benefits	Understand
FN332.3	Analyze the prebiotics and probiotics and describe the microbiota of GI tract and their impact on maturation of immune system	Analyze
FN332.4	Outline the technologies, legal requirements, and marketing issues for functional food development in India	Analyze
FN332.5	Evaluate the standards of evidence required for efficacy and safety assessment of nutraceutical and functional foods	Evaluate
FN332.6	Demonstrate the knowledge of the scientific basis and technologies available to suggest potential new functional food products	Apply

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Course Outcomes

Course Name: Nutrigenomics and Personalized Nutrition

Course Code: FN 321

Year: 2019-2020

Semester: Autumn

Faculty Name: Dr. Rakesh Kumar Verma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FN321.1	Describe the Nutrigenomics and Nutrigenetics as well as their role in human diseases	Understand
FN321.2	Analyze and describe the different branches of genomics and their applications in nutrition research	Analyze
FN321.3	Apply molecular biology tools to diagnose metabolic responses at cellular level	Apply
FN321.4	Discuss the of role bioactive compounds as regulators of transcription factors and epigenetic mechanisms	Understand
FN321.5	Describe the gene polymorphism and role of nutrients in cell metabolism	Understand
FN321.6	Understand the early life programming and demonstrate the molecular approaches for personalized nutrition	Understand

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Course Outcomes

Course Name: Food Safety

Course Code: FN 211

Year: 2019-20

Semester: Autumn

Faculty Name: Dr. Rakesh Kumar Verma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FN211.1	Describe the food safety and microbiological standards and limits for foods	Understand
FN211.2	Discuss the biological, chemical and physical food hazards, their food sources, impact on health and control measures	Understand
FN211.3	Demonstrate the importance of personal hygiene, disinfection of food premises, pest control and waste disposal	Apply
FN211.4	Describe the food safety management tools and their importance	Understand
FN211.5	Analyze the Indian food laws and standards as well as explain the role of FSSAI in food safety	Analyze
FN211.6	Apply the food safety guidelines for establishing a food service and explain the recent concerns about GM foods and organic foods	Apply

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Course Outcomes

Course Name: Laboratory Course in Bioinformatics & Scientific Communication

Course Code: BT524

Year: 2019-2020

Semester: Spring

Faculty Name: Dr. Rakesh Kumar Verma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BT524.1	Explain popular resources of NCBI and different databases	Understand
BT524.2	Use some tools like BLAST, ORF finder for new gene identification	Apply
BT524.3	Compare the nucleotide and amino acid sequence using MEGA 7.0 and Clustal Omega	Evaluate
BT524.4	Develop and analyze the phylogeny using MEGA 7.0.	Create
BT524.5	Test the recombination breakpoints in genomic sequences using RDP 4.0.	Evaluate
BT524.6	Derive the 3-D structure of proteins using Swiss-Model and Phyre-2.0.	Create

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Course Outcomes

Course Name: Introduction to Research Methodology

Course Code: BT333

Year: 2019-20

Semester: Autumn

Faculty Name: Dr. Rakesh Kumar Verma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BT333.1	Understand some basic concepts of research and objectives of doing research, research process and research designs	Understand
BT333.2	Analyze the current literature and research explorations in the relevant biological research and select appropriate research problem	Analyze
BT333.3	Select and distinguish appropriate research designs and methodologies to apply to a specific research project in biological sciences and allied fields	Analyze
BT333.4	Discuss the measurement & scaling techniques as well as the methods of data collection	Understand
BT333.5	Analyze, identify, compare and prepare the key elements of a research report and research paper	Analyze
BT333.6	Examine and conduct research in a more appropriate manner	Apply

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Course Outcomes

Course Name: Bioinformatics laboratory

Course Code: BT314

Year: 2019-2020

Semester: Spring

Faculty Name: Dr. Rakesh Kumar Verma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BT314.1	Discuss the tools and resources of NCBI	Understand
BT314.2	Determine the novel gene using BLAST tool	Apply
BT314.3	Compare the multiple sequences of DNA and Proteins	Evaluate
BT314.4	Develop a restriction map of a given gene for transformation	Create
BT314.5	Design PCR primers of In-Vitro amplification of specific gene	Create
BT314.6	Build a phylogenetic tree using MEGA 7.0 software	Create

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Course Outcomes

Course Name: Introductory Biomedical Science

Course Code: BT291

Year: 2019-2020

Semester: Autumn

Faculty Name: Dr. Rakesh Kumar Verma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BT291.1	Describe the role of makers in disease identification , prognosis and treatment and also discuss the biochemical tests or these diseases	Remember
BT291.2	Understand the basic principles and applications of biosensors in disease diagnosis	Understand
BT291.3	Analyze the techniques used for screening of diseases	Analyze
BT291.4	Understand clinical applications of enzymes and proteins and will able to understand the role of nutrition in health	Understand
BT291.5	Demonstrate a detailed knowledge and understanding of the biology of human health, disease and disease processes to support an understanding of biomedical science	Apply
BT291.6	Demonstrate technical and analytical laboratory skills as they apply to biomedical sciences research and/or applications.	Apply

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Course Outcomes

Course Name: Genetic Engineering and Environmental Biotechnology Laboratory

Course Code: BT661

Year: 2019-2020

Semester: Autumn

Faculty Name: Dr. Rakesh Kumar Verma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BT661.1	Understand the meaning and importance of biotechnological tools and techniques pollution management	Understand
BT661.2	Demonstrate the methods for DNA, RNA and Plasmid isolation from different sources	Apply
BT661.3	Apply the genetic engineering techniques for crop improvements, disease diagnosis etc.	Apply
BT661.4	Apply fundamental principles of microbiology for identification of microbes isolated from contaminated water and soil	Apply
BT661.5	Explain the Bioethanol production using different waste products	Understand
BT661.6	Understand the quality of water based on the DO and BOD	Understand

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Course Outcomes

Course Name: Bioinformatics, Scientific Communication & Intellectual Property Rights

Course Code: BT592

Year: 2019-2020

Semester: Spring

Faculty Name: Dr. Rakesh Kumar Verma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BT592.1	Describe bioinformatics and its tools, and explain the biological databases as well as describe how bioinformatics literature and data is stored and organized	Understand
BT592.2	Summarize current and emerging issues relating to the intellectual property protection, including those relating to indigenous knowledge or culture, biotechnology and bioinformatics	Understand
BT592.3	Apply intellectual property law principles (including copyright, patents, designs and trademarks) to real problems	Apply
BT592.4	Compare the amino acid and nucleotide sequences and explain the major steps in pair-wise and multiple sequence alignment	Evaluate
BT592.5	Analyze how secondary and 3-D structures of proteins are predicted and describe the process of homology modeling	Analyze
BT592.6	Build UPGMA, NJ, and ML phylogenetic tress and explain its algorithms	Create

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Course Outcomes

Course Name: Bioinformatics

Course Code: BT352

Year: 2019-2020

Semester: Spring

Faculty Name: Dr. Rakesh Kumar Verma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BT352.1	Define Bioinformatics and networking and elaborate its applications and tools	Remember
BT352.2	Describe the contents and properties of most important bioinformatics databases	Understand
BT352.3	Compare nucleotide and amino acid sequences employing bioinformatics tools	Evaluate
BT352.4	Explain text- and sequence-based searches using accession numbers, gene names and sequences as well as discuss the results in light of molecular biological knowledge	Understand
BT352.5	Discuss genomic and proteomic approaches and associated technologies	Understand
BT352.6	Build phylogenetic trees using UPGMA, NJ and ML methods	Apply

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Course Outcomes

Course Name: Environmental and Agricultural Microbiology

Course Code: MB 681

Year: Academic Year: 2019-20

Semester: Autumn

Faculty Name: Dr. Harish Kumar Dhingra

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

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MB 681.1	Learn the concept of soil and Soil microflora	Understand
MB 681.2	Learn the about primary, secondary and tertiary waste water treatment	Understand
MB 681.3	Learn about different types of biofuels-bioethanol, biodiesel and bio-gas and about their advantages and limitations	Understand
MB 681.4	Learn about biopesticides and biogeochemical cycles and role of microbes in each cycle	Understand
MB 681.5	Learn the concept of biofertilizers and waste water treatment methods	Understand
MB 681.6	Apply their knowledge to perform biodegradation at contamination site by taking case by case study	Apply

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Course Outcomes

Course Name: Mechanics, Properties of Matter and Relativity

Course Code: PH 111

Year: B.Sc. I Year

Scmester: I / Autumn

Faculty Name: Dr. Brajraj Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
1	Understand the motion of objects in different frame of references.	Remember
2	Describe how fictitious forces arise in a non-inertial frame, e.g., why a person sitting in a merry-go-round experiences an outward pull.	Apply
3	Understand the phenomena of collisions and idea about center of mass and laboratory frames and their correlation.	Understand
4	Evaluate elastic properties through the study of Young Modulus, Bulk Modulus and Modulus of rigidity.	Evaluate
5	Apply simple principles of fluid flow and the equations governing fluid dynamics.	Apply
6	Describe special relativistic effects and their effects on the mass and energy of a moving object.	Understand /apply

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Course Outcomes

Course Name: Advance Condensed Matter Physics

Course Code: PH 613

Year: M.Sc. II Year

Semester: III/ Autumn

Faculty Name: Dr. Brajraj Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
1	Understand the basic idea of optical properties and their applications in investigation of materials	Understand
2	Understand and apply the various process techniques available of X-Ray Crystallography for prediction of materials	Apply
3	Rigorous study of various theoretical treatments of superconductivity, including BCS theory	Understand
4	Quantum mechanical illustration of the diamagnetic, paramagnetic, ferro and antiferro -magnetic properties of matter	Apply
5	Evaluate various physical properties changes due to defects and imperfections.	Evaluate

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Course Outcomes

Course Name: Advance Condensed Matter Physics

Course Code: PH 611

Year: M.Sc. II Year

Semester: III/ Autumn

Faculty Name: Dr. Brajraj Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
1	Apply network theorems to analyze the circuit	Analyze
2	Understand and apply the various transistors configuration for the fabrication of different amplifiers	Apply
3	Explain the working, design considerations and applications of various semiconducting devices including p-n junctions, BJTs and FETs	Understand
4	Evaluate various physical parameters of Feed amplifiers	Evaluate
5	Demonstrate the knowledge of operational amplifiers in their applications	Apply

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Course Outcomes

Course Name: Classical Mechanics

Course Code: PH 521

Year: M.Sc. Physics

Semester: I / Autumn

Faculty Name: Dr. Brajraj Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
1	Understand the basics and formulation of Lagrangian and Hamiltonian approaches in classical mechanics.	Understand
2	Apply the formulation Lagrangian and Hamiltonian approaches to solve various Physics problems.	apply
3	Understand classical background of Quantum mechanics and get familiarized with Poisson brackets and Hamilton -Jacobi equation	Understand
4	Apply Kinematics and Dynamics of rigid body in detail and understand ideas regarding Euler's equations of motion	apply
5	Derive Lorentz transformation equations by using special Theory of Relativity.	Analyze
6	Define Four Dimensional Space and deduce the transformation formulation	apply

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Course Outcomes

Course Name: Fiber Optics

Course Code: PH333

Year: B.Sc. III Year

Semester: Autumn

Faculty Name: Dr. Brajraj Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
1	Understanding of optical fiber communication link, structure, propagation and transmission properties of an optical fiber	Understand
2	Distinguish Step Index, Graded index fibers and compute modes, V parameter	Analyze
3	Learn the various construction techniques along with their comparison and the construction and characteristics of optical sources and detectors	Remember
4	Describe the principles of various optical loses and methods to reduce loses	Apply
5	Understand the various power launching and coupling methods	Understand
6	and design a fiber optic link based on budgets	Evaluate

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Course Outcomes

Course Name: Optics and Lasers

Course Code: PH 221

Year: B.Sc. II Year

Semester: Autumn

Faculty Name: Dr. Brajraj Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
1	Understand Interference as superposition of waves from coherent sources derived from same parent source.	Understand
2	Articulate and describe the interference principle in thin films, wedge shaped films, Newton's Ring and Michelson Interferometer.	Apply
3	Demonstrate basic concepts of Diffraction: Superposition of wavelets diffracted from aperture, understand Fraunhoffer and Fresnel Diffraction.	Evaluate
4	Articulate and demonstrate the polarization through refraction and reflection and analysis of circularly and elliptically polarized light.	Apply
5	Understand the working of Ruby, He-Ne, Semiconductor Laser, wave propagation in Fiber and evaluate Numerical aperture of Fiber	Evaluate

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Course Outcomes

Course Name: Physics Laboratory-I

Course Code: PH131

Year: B.Sc. I Year

Semester: Autumn

Faculty Name: Dr. Brajraj Singh

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

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Course Outcomes

Course Name: Oscillations and Waves

Course Code: PH 132

Year: B.Sc. I Year

Semester: I / Spring

Faculty Name: Brajraj Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
1	Understand simple harmonic motion (SHM), be able to derive and solve the equations of motions for physical systems that undergo SHM	Understand
2	Adapt the general SHM solution for specific initial conditions	Analyze
3	Derive the velocity and acceleration of SHM and the kinetic, potential and total energy of a mechanical system undergoing SHM	Create
4	Understand and be able to derive and solve the equations for the damped oscillator in the overdamped, critically-damped and underdamped regimes	Create
5	Understand and be able to derive and solve the equations for a forced oscillator; understand the concept of resonance and the response of a system (amplitude and phase, power dissipation) as a function of driving frequency and the effects of transients	Create
6	Calculate the quality factor Q for damped and driven oscillators	Apply
7	Understand the principle of linear superposition and the phenomenon of beating	Understand

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Course Outcomes

Course Name: Physics Laboratory -IV

Course Code: PH 222

Year: B.Sc. II Year

Semester: 4th / Spring

Faculty Name: Brajraj Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
1	To determine the resolving power of a telescope.	Apply
2	To determine the wavelength of sodium light with the help of Newton's ring experiment.	Apply
3	To measure the numerical aperture of an optical fiber	Evaluate
4	To measure the wavelength of He-Ne laser beam with a Ruler or vernier calliper.	Evaluate
5	To study the reverse saturation current material constant, temperature coefficient of junction voltage and energy band gap of P-N Junction.	Analyze
6	To verify that impedance of a capacitance c varies as $Zc=12\pi fc'$ and to measure the value of the capacitance.	Evaluate
7	To Determine unknown inductance using Maxwell's bridge.	Apply
8	To compare the Mutual Inductance of two pairs of coils using ballistic Galvanometer.	Evaluate

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Course Outcomes

Course Name: Elements of Nuclear Physics

Course Code: PH322

Year: B.Sc. III Year

Semester: Spring

Faculty Name: Dr. Brajraj Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
1	Get the knowledge of basic properties of the nucleus and different models to justify the stability of nucleus.	Remember
2	Get idea about the spin parity concept, Liquid drop Model, Fermi Gas Model, magic no. Related to shell model.	Understand
3	have a concept and nature of nuclear force, weak forces, Meson theory	Understand
4	know various methods of accelerating various types of particles to perform scattering experiments	Remember
5	Understand the classification of elementary particles and their properties along with standard model.	Understand
6	Get the idea about conservation laws, spin, parity, symmetry, isospin and strangeness.	Remember

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Course Outcomes

Course Name: Elements of Nuclear and Particle Physics

Course Code: PH552

Year: M.Sc. Physics I Year

Semester: Spring

Faculty Name: Dr. Brajraj Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
1	Understand the general properties and concepts of nuclei along with various nuclear models.	Understand
2	Solve the two body bound for deuteron and analyses the scattering properties.	Evaluate
3	Understand the various decay process along with applications.	Apply
4	learn and explain nuclear reaction dynamics and weak, strong nuclear interactions	Understand
5	Understand the standard model and its limitations and the properties of QCD.	Understand
6	Know the basic rules of Feynman diagrams and the quark model for hadrons.	Apply

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Course Outcomes

Course Name: Advance Physics Laboratory

Course Code: PH572

Year: M.Sc. I Year

Semester: Spring

Faculty Name: Dr. Brajraj Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
1	Demonstrate the quantization of charge on a drop through terminal velocity using Millikan's Oil drop method.	Apply
2	Measure the magnetic susceptibility of paramagnetic sample using Quincke's tube.	Evaluate
3	Measure specific charge of electron using Thomson method.	Analyze
4	Understand the space quantization using Zeeman effect experiment and apply it to calculate Bohr Magneton.	Apply
5	Experimentally demonstrate the concept of quantization of energy levels according to Bohr's model of atom through excitation of Neon atoms by inelastic scattering and determine the excitation energy.	Evaluate
6	Verify waveguide law using Klystron fitted microwave bench	Analyze
7	Determine the plateau and optimal operating voltage of a Geiger-Müller counter.	Understand
8	Determine the resolving time of a GM counter.	Apply

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Course Outcomes

Course Name: Material Science

Course Code: PH662

Year: M.Sc. II Year

Semester: Spring

Faculty Name: Dr. Brajraj Singh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
1	Have sound knowledge about the physics of different classes of materials.	Remember
2	Get concept of phase, phase diagram, phase boundaries, Invariant points and reactions leading to the understanding of the material synthesis and dependence of properties on thermodynamic parameters	Understand
3	Understanding nucleation, growth and phase transformation kinetics	Apply
4	Know the mechanics of time independent and time dependent deformation, Elastic, Anelstic and Viscoelastic behavior.	Understand
5	Get the concept of plastic deformation and creep in crystalline materials.	Remember
6	Understand the various methods for protection of materials, Oxidation and corrosion	Apply

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Course Outcomes

Course Name: Bioprocess Engineering

Course Code: BT 641

Year: 2019-20

Semester: Autumn

Faculty Name: Dr. Navneet Joshi

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BT641.1	Remember Microbial Growth and Product Kinetics	Remember
BT641.2	Understand Isolation, Preservation and Improvement of Industrially important Microorganisms	Understand
BT641.3	Apply Design of continuous sterilization process, Sterilization of air, Theory and design of depth filter.	Apply
BT641.4	Analyse Mass Transfer in Microbial System	Analyse
BT641.5	Evaluate Downstream Processing	Evaluate
BT641.6	Create Bioreactor– Packed bed, Fluidized bed, Tickle bed, CSTR, Plug flow reactor, Scale up of bioreactor.	Create

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Course Outcomes

Course Name: Animal Biotechnology

Course Code: BT522

Year: 2019-20

Semester: Spring

Faculty Name: Dr.Navneet Joshi

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BT522.1	Define established normal and transformed cell lines	Remember
BT522.2	Discuss Balanced salt solution, Semi-synthetic and synthetic media, Serum as a media supplement, Serum-free media, Feeder layers, Medium sterilization.	Understand
BT522.3	Demonstrate Disaggregation (mechanical, chemical and enzymatic), Primary culture, Secondary culture,	Apply
BT522.4	Classify Suspension and monolayer cultures, Immobilized cultures.	Analyse
BT522.5	Compare Growth curve, Growth kinetics, Synchronization of cells, Differentiation of cells, Transformation, Bioreactors	Evaluate
BT522.6	Formulate Tissue engineering, Production of monoclonal antibodies, Transgenic animals, Embryo culture and IVF, Gene therapy, Production of interferons and vaccines, Diagnostics	Create

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Course Outcomes

Course Name: Food Service Management

Course Code: FN322

Year: 2019-20

Semester: Spring

Faculty Name: Dr.Navneet Joshi

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FN322.1	Define Food service Institutions- Definition and importance, various types of food service institutions like hospitals, school meals, hostels, industrial canteens, commercial hotel	Remember
FN322.2	Discuss Theories about approaches to food service management	Understand
FN322.3	Demonstrate Tools of management – organization chart, types, structure, function; work improvement techniques	Apply
FN322.4	Classify Inventory management- assessing requirements, receiving and release of stocks. Record maintenance. Quantity food preparation and service- Factors in menu planning	Analyse
FN322.5	Compare food preparation and service. Kitchen control and maintenance of Kitchen records.	Evaluate
FN322.6	Formulate Budgeting, costing and cost control, accounting. 8. Hygiene and sanitation in preparation and serving area – Personal hygiene, types and sources of contamination, prevention and safety measures. Methods of controlling infestation. Methods of dish washing.	Create

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Course Outcomes

Course Name: Industrial Microbiology and Fermentation Technology

Course Code: MB 641

Year: 2019-20

Semester: Autumn

Faculty Name: Dr.Navneet Joshi

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MB641.1	Remember General Concepts of industrial microbiology	Remember
MB641.2	Understand Growth Kinetics	Understand
MB641.3	Apply Basic Concepts in Fermentation	Apply
MB641.4	Analyse Industrial Production	Analyse
MB641.5	Evaluate Production of other Metabolites	Evaluate
MB641.6	Create pathways for industrial production of amino acids	Create

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Course Outcomes

Course Name: Plant, Animal Biotechnology and Food Technology Laboratory

Course Code: BT514

Year: 2019-20

Semester: Spring

Faculty Name: Dr.Navneet Joshi

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BT514.1	Define various plant and animal tissue culture	Remember
BT514.2	Discuss flow chart for MS media preparation	Understand
BT514.3	Demonstrate cell viability assay	Apply
BT514.4	Classify plant and animal cell culture media	Analyse
BT514.5	Compare morphological and biochemical parameters	Evaluate
BT514.6	Formulate DMEM serum supplemented media	Create

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Course Outcomes

Course Name: Plant Biotechnology

Course Code: BT512

Year: Spring

Semester: 2019-20

Faculty Name: Dr.Navneet Joshi

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BT512.1	Define Tissue culture media, Totipotency, Organogenesis, Somatic embryogenesis- regulation and application, Artificial seed production, Micropropagation	Remember
BT512.2	Discuss Protoplast isolation, Culture and usage, Somatic hybridization-methods and applications, Cybrids and somatic cell genetics	Understand
BT512.3	Demonstrate Opines and their significance, T-DNA transfer mechanism, Disarming the Ti plasmid, *Agrobacterium* based vectors, Binary and shuttle vectors.	Apply
BT512.4	Classify Direct gene transfer - PEGmediated, electroporation, particle bombardment and alternative methods, Screenable and selectable markers, Characterization of transgenics, Markerfree Methodologies, Transgene stability and Gene silencing.	Analyse
BT512.5	Compare Herbicide resistance, Bacterial resistance, Viral resistance, Fungal resistance, Insects and pathogens resistance, Drought, Salinity, Thermal stress, Flooding and submergence tolerance Plants as Biofactories.	Evaluate
BT512.6	Formulate RFLP, RAPD Markers, STS, microsatellites, SCAR, SSCP, AFLP, QTL, map based cloning, molecular marker assisted selection.	create

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Course Outcomes

Course Name: Bioprocess engineering laboratory

Course Code: BT344

Year: 2019-20

Semester: Autumn

Faculty Name: Dr. Navneet Joshi

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BT344.1	Define Growth media, Bacterial growth rate kinetics.	Remember
BT344.2	Discuss factors influencing the choice of various carbon and nitrogen sources, vitamins	Understand
BT344.3	Demonstrate Sterilization of process fluids, recovering and purifying products	Apply
BT344.4	Classify biochemical reactions, including aerobic and anaerobic respiration and fermentation (involving pure and mixed cultures)	Analyse
BT344.5	Compare Shake flask, batch and continuous operations. Solid state fermentations. Primary and secondary metabolites	Evaluate
BT344.6	Formulate production media for penicillin production	Create

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Course Outcomes

Course Name: Plant Biotechnology

Course Code: BT322

Year: 2019-20

Semester: Spring

Faculty Name: Dr.Navneet Joshi

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BT322.1	Define General Principles: Terms and Definition, Historical aspects and scope Classical vs. modern approach, totipotency and cell theory, Principles underlying in vitro culture	Remember
BT322.2	Discuss Growth and differentiation, Culture media and its constituents, Media preparation,	Understand
BT322.3	Demonstrate Organization of plant tissue culture laboratory.	Apply
BT322.4	Classify Micropropagation: Basic technique, Automation in the area scope as a commercial venture, Production of disease free plants	Analyse
BT322.5	Compare Somaclonal and gametoclonal variation, Selection, Sources and causes of variation, Application in crop improvement.	Evaluate
BT322.6	Formulate Protoplast Related Techniques: Protoplast isolation, Protoplast culture and fusion, Selection of hybrid cells	Create

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Course Outcomes

Course Name: Animal Tissue Culture

Course Code: BT313

Year: 2019-20

Semester: Spring

Faculty Name: Dr.Navneet Joshi

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BT313.1	Define Structure, organization and biology of animal cell. General concepts of animal cell culture	Remember
BT313.2	Describe Media -Development of simple growth media, BSS. Chemical, physical and metabolic functions of different constituents of culture medium.	Understand
BT313.3	Determine Cell separation, Organ and histotypic cultures.	Apply
BT313.4	Analyse Cell cloning and micromanipulation	Analyse
BT313.5	Assess Cell culture based vaccines, Stem cell culture, Embryonic stem cells and their applications	Evaluate
BT313.6	Compare Cell cloning and micromanipulation, Transfection techniques, Cell transformation	Create

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Course Outcomes

Course Name: Plant and Animal Biotechnology

Course Code: BT242

Year: 2019-20

Semester: Spring

Faculty Name: Dr.Navneet Joshi

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BT242.1	Define General Principles: Terms and Definition, Historical aspects and	Remember
BT242.2	scope Classical vs. modern approach, totipotency and cell theory,	Understand
BT242.3	Principles underlying in vitro culture, Animal scientist	Apply
BT242.4	Discuss Growth and differentiation, Culture media and its constituents, Media preparation,Live stock Production	Analyse
BT242.5	Demonstrate Organization of plant tissue culture laboratory.	Evaluate
BT242.6	Classify Micropropagation: Basic technique, Automation in the area scope as a commercial venture, Production of disease free plants	Create

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Course Outcomes

Course Name: Tissue Culture Laboratory

Course Code: BT252

Year: 2019-20

Semester: Spring

Faculty Name: Dr.Navneet Joshi

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BT252.1	Define various morphological shapes of culture	Remember
BT252.2	Discuss flow chart for MS media preparation	Understand
BT252.3	Demonstrate cell viability assay	Apply
BT252.4	Classify plant and animal cell culture media	Analyse
BT252.5	Compare morphological and biochemical parameters	Evaluate
BT252.6	Formulate DMEM serum supplemented media	Create

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Course Outcomes

Course Name: Basics of Drug Designing

Course Code: BT172

Year: 2019-20

Semester: Spring

Faculty Name: Dr.Navneet Joshi

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BT172.1	Define Drug designing-Meaning and Introduction, Disease and drug target identification	Remember
BT172.2	Discuss SAR, optimising target interactions	Understand
BT172.3	Demonstrate Toxicology and safety issues, Development and Production, Clinical trials, Patenting issues	Apply
BT172.4	Classify clinical trials. Microbial genomics for new antibiotics	Analyse
BT172.5	Compare Immunotoxin drug	Evaluate
BT172.6	Formulate Drug discovery in cancer research/new target based drugs in clinical trials.	Create

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Course Outcomes

Course Name: Bio-Instrumentation
Course Code: BC211
Year: 2019-20
Semester: Autumn
Faculty Name: Dr.Navneet Joshi

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BC211.1	Define General Principles: pH meter, centrifugation, spectrophotometry, Electrophoresis, Chromatography	Remember
BC211.2	Discuss Sterilization Techniques, Analytical and Preparative centrifugation, Atomic spectroscopy	Understand
BC211.3	Demonstrate 2-D PAGE, Agarose and SDS gel electrophoresis	Apply
BC211.4	Classify Thin layer, Column chromatography, Permeation, Ion exchange and Affinity chromatography	Analyse
BC211.5	Compare Ultra-violet and Visible Spectroscopy	Evaluate
BC211.6	Formulate IEF, pI equation	Create

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Course Outcomes

Course Name: Bio-Instrumentation Laboratory
Course Code: BC221
Year: 2019-20
Semester: Autumn
Faculty Name: Dr.Navneet Joshi

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BC221.1	Define principle and working of pH meter, centrifugation, spectrophotometry, Electrophoresis, Chromatographic techniques	Remember
BC221.2	Discuss Sterilization Techniques, Autoclaving	Understand
BC221.3	Demonstrate electrophoretic techniques	Apply
BC221.4	Classify techniques of chromatography	Analyse
BC221.5	Compare Ultra-violet and Visible Spectroscopy	Evaluate
BC221.6	Formulate the equation for estimation of pI	Create

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Course Outcomes

Course Name: Biophysical Techniques

Course Code: BC 521

Year: 2019-20

Semester: Autumn

Faculty Name: Dr.Navneet Joshi

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BC521.1	Understand Basic Principles of Biophysics	Understand
BC521.2	Remember Principles of centrifugation	Remember
BC521.3	Apply Spectroscopic Techniques to evaluate absorption in colored solutions	Apply
BC521.4	Analyse technique of electrophoresis	Analyse
BC521.5	Evaluate Chromatographic Techniques	Evaluate
BC521.6	Create the concept of Autoradiography, Radio-immunoassay and ELISA	Create

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Course Outcomes

Course Name: Basic Differential Geometry

Course Code: MS 352

Year: III (B.Sc. Hons.)

Semester: Spring

Faculty Name: Dr. Arvind Maharshi

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MS 352.1	Understand basic concepts of tensors, graphs and level sets, vector fields, the tangent space, surfaces, vector fields on surfaces orientation.	Understand
MS 352.2	Apply tensors in differential geometry and basic properties, uses of tensors in differential geometry.	Apply
MS 352.3	Evaluate curvature of plane curves, arc length and the line integrals, curvature of surfaces. Envelops and evolutes of different family of surfaces.	Evaluate
MS 352.4	Understand Envelops and evolutes, first fundamental form, metric potentials, direction coefficient and angle between two curves on a surface	Understand
MS 352.5	Remember standard results related to tensors and geometry, standard definitions.	Remember
MS 352.6	Understand the basics related to geodesics for the different surfaces.	Understand

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Course Outcomes

Course Name: Differential Equations-I

Course Code: MS 122

Year: I (B.Sc.)

Semester: Spring

Faculty Name: Dr. Arvind Maharshi

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MS 122.1	Understand the formation of differential equation, order and degree of equation, general and particular solution of equations.	Understand
MS 122.2	Analyze various types of differential equations of first order and first degree and different forms and corresponding methods for solutions.	Analysis
MS 122.3	Evaluate degree and order of differential equation, solution of first order and first degree differential equations, series solution.	Evaluate
MS 122.4	Understand occurrence of linear differential equations of constant and variable coefficients, different forms and methods.	Understand
MS 122.5	Remember standard formulae, different methods of CF and PI, standard forms and definitions.	Remember
MS 122.6	Apply power series method for the series solution of differential equations and its applications in different fields.	Apply

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Course Outcomes

Course Name: Physical Chemistry-IV

Course Code: CH 392

Year: B.Sc. III year 2019-20

Semester: VI Spring

Faculty Name: Dr. K.L.Ameta

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH 392.1	Analyze the determination of molecular weight from osmotic pressure, elevation of boiling point and depression in freezing point. Measurement of dipole moment-temperature method and refractivity method, Experimental methods for determining various colligative properties.	Analyze
CH 392.2	Evaluate colligative Properties, methods of expressing concentrations of solutions, activity and activity coefficient, Raoult's law, Magnetic properties-paramagnetism, diamagnetism and ferromagnetism.	Evaluate
CH 393.3	Remember interaction of radiation with matter, difference between thermal and photochemical processes. Laws of photochemistry: Grothus-Drapper law, Stark-Einstein law, Jablonski diagram depicting various processes occurring in the excited state,	Remember
CH 394.4	Explain the Osmosis, law of osmotic pressure and its measurement. Thermodynamic derivation of relation between molecular weight and elevation of boiling point and depression in freezing point.	Explain
CH 395.5	Understand the abnormal molar mass, degree of dissociation and association of solutes. Qualitative description of fluorescence, phosphorescence, quantum yield, photosensitized reactions-energy transfer processes with simple examples.	Understand
CH 396.6	Discuss classification of colloids. Solids in liquids (sols): properties-kinetic, optical and electrical Hardy-Schulze law, gold number. Application of colloids. Liquids in liquids (emulsions): types of emulsions, preparation, emulsifier	Discuss

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Course Outcomes

Course Name: Photochemical Reactions

Course Code: CH 611

Year: M.Sc. II year 2019-20

Semester: III

Faculty Name: Dr. K. L. Ameta

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH 611.1	Understand interaction of electromagnetic radiation with matter, types of excitations, fate of excited molecule, quantum yield, transfer of excitation energy and actinometry.	Understand
CH 611.2	Analyze the life times of reactive energy state; rate constants of reactions, effect of light intensity on the rate of photochemical reactionsand remember the types of photochemical reactions-photo dissociation, and gas-phase photolysis.	Analyze
CH 611.3	Remember the intramolecular reactions of the olefinic bond-geometrical isomerism, cyclisation reactions and rearrangement of 1,4- and 1,5-dienes.	Remember
CH 611.4	Apply the intra molecular reactions of carbonyl compounds to saturated, cyclic and acyclic, β,γ unsaturated and α, β unsaturated compounds, cyclohexadienones, dimerisation and oxetane formation.	Apply
CH 611.5	Explain the photochemical reactions of aromatic compounds: Isomerisations, additions and substitutions.	Explain
CH 611.6	Describe the mechanism of Photo-Fries reactions of anilides, Photo-Fries rearrangement, Barton reaction, Singlet molecular Oxygen reaction, Photochemical formation of smog. Photo degradation of polymers. Photochemistry of vision.	Describe

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Course Outcomes

Course Name: Organic Chemistry-I
Course Code: CH 513
Year: M.Sc. I year 2019-20
Semester:I
Faculty Name: Dr. K. L. Ameta

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH 513.1	Understand basic concept of conjugation, cross conjugation, resonance and hyperconjugation. Students will learn bonding in fullerenes. Student will understand the concept of tautomerism, aromaticity in benzenoid and non-benzenoid compounds, alternant and non-alternant hydrocarbons,Huckel's rule, energy level of π-molecular orbitals, annulenes, anti-aromaticity, homo-aromaticity.	Understand
CH 513.2	Analyze about conformational analysis, chirality, molecules with more than one chiral center, threo and erythronomenclature, methods of resolution, optical purity, enantiotopic and diastereotopic atoms, groups and faces, stereospecific and stereoselective synthesis, asymmetric synthesis and optical activity in the absence of chiral carbon.	Analyze
CH 513.3	Remember about thermodynamic and kinetic requirementsof reactions, Hammond's postulate, Curtin-Hammett principle, Potential energy diagrams, transition states and intermediates, Students willlearn about the methods of determining mechanisms, structure, stability and reactivity of carbocations, carbanions, free radicals, carbenes and nitrenes.	Remember
CH 513.4	Describe the mechanism of SN2, SN1, SNi mixed SN1 and SN2 and SET, NGP by σ and π bonds, anchimeric assistance. Understand the structures of Classical and nonclassicalcarbocations, phenonium ions, norbornyl system, Nucleophilic substitution at an allylic, aliphatictrigonal and a vinylic carbon, ambident nucleophile, regioselectivity and apply it to various related reactions.	Describe
CH 513.5	Apply the mechanisms of SE2, SEi and SE1 mechanism and E+ substitution via double bond shifts. Effect of substrates, leaving groups and the solvent polarity on the reactivity on all mechanisms.	Apply
CH 513.6	Explain the arenium ion mechanism, orientation and reactivity and apply it to various reactions.Students will also understand the energy profile diagrams, ortho/para ratio and ipso attack, diazonium coupling, Vilsmeir reaction, Gatterman-Koch reaction.	Explain

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Course Outcomes

Course Name: Organic Chemistry Laboratory-I
Course Code: CH 581
Year: M.Sc. I year 2019-20
Semester:I
Faculty Name: Dr. K. L. Ameta

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH 581.1	Understand the separation, purification and identification of compounds of binary mixture (one liquid and one solid / two liquids / two solids) using TLC and column chromatography, chemical tests and analyze IR spectra for functional group identification	Understand
CH 581.2	Evaluate the acetylation of cholesterol and separation of cholesteryl acetate by column chromatography.	Evaluate
CH 581.3	Explain the oxidation of adipic acid by chromic acid oxidation of cyclohexanol	Explain
CH 581.4	Create the Grignard synthesis of triphenylmethanol from benzoic acid	Create
CH 581.5	Analyze the Aldol condensation, preparation of dibenzal acetone from benzaldehyde.	Analyze
CH 581.6	Describe the Sandmeyer reaction, preparation of p-chlorotoluene from p-toluidine	Describe

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Course Outcomes

Course Name: Organic Chemistry-I

Course Code: CH 191

Year: B.Sc. I year 2019-20

Semester: I

Faculty Name: Dr. K. L. Ameta

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH 191.1	Remember the concept of bond angle, bond length, bond energy, conjugation and all fundamentals related to bonding and hybridization, hydrogen bonding, clathrates, inclusion compounds, charge-transfer compounds and field effects.	Remember
CH 191.2	Understand the different types of isomerism, elements of symmetry and different concepts related to stereochemistry.	Understand
CH 191.3	Analyze the different relative and absolute nomenclature of chiral compounds and apply to some unsolved examples.	Analyze
CH 191.4	Apply conformational isomers into various projection formulas concept of geometrical isomerism, its types and applications in oximes and alicyclic compounds.	Apply
CH 191.5	Explain preparation, properties and reactivity of alkanes and alkenes.	Explain
CH 191.6	Describe the preparation, properties and reactivity and conformation of cycloalkenes	Describe

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Course Outcomes

Course Name: Organic Chemistry IV

Course Code: CH 292

Year: B.Sc. II year 2019-20

Semester: IV Spring

Faculty Name: Dr. K. L. Ameta

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH 292.1	Analyze the mechanism of nucleophilic additions to carbonyl group with particular emphasis on Benzoin, Aldol, Perkin and Knoevenagel condensations, condensation with ammonia and its derivatives. Wittig reaction, Mannich reaction.	Analyze
CH 292.2	Evaluate the acidity of carboxylic acids, effects of substituents on acid strength. Preparation of carboxylic acids, Reactions of Carboxylic acids- Hell-Volhard-Zelinsky reaction. Synthesis of acid chlorides, esters and amides, Reduction of carboxylic acids.	Evaluate
CH 292.3	Remember Hydroxy acids; malic, tartaric and citric acids. Methods of preparation and chemical reactions of three unsaturated monocarboxylic acids. Dicarboxylic acids: methods of preparation and effect of heat and dehydrating agents (succinic, glutaric and adipic acids).	Remember
CH 292.4	Explain the Structure of the carbonyl group. Synthesis of aldehydes and ketones from acid chlorides, 1,3-dithianes, nitrites and from carboxylic acids.	Explain
CH 292.5	Understand the Structure and nomenclature of acid chlorides, esters, amides (urea) and acid anhydrides. Relative stability of acyl derivatives and interconversion of acid derivatives by nucleophilic acyl substitution.	Understand
CH 292.6	Apply acetals as protecting group. Oxidation of aldehydes, Baeyer-Villiger oxidation of ketones, Cannizzaro reaction, MPV, Clemmensen, Wolff-Kishner reaction.	Apply

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Course Outcomes

Course Name: Organic Chemistry II

Course Code: CH 514

Year: M.Sc. I year 2019-20

Semester: II Spring

Faculty Name: Dr. K. L. Ameta

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH 514.1	Analyze the SNAr, SN1, benzyne and SRN1 mechanism, Reactivity; effect of substrate structure, leaving group andattacking nucleophile. The Von Richter, Sommelet - Hauser, and Smiles rearrangments.	Analyze
CH 514.2	Evaluate the mechanism at an aromatic substrate, neighbouring group assistance. Allylic halogenation (NBS), oxidation of aldehydes to carboxylic acids, auto-oxidation, coupling of alkynes and arylation of aromatic compounds by diazonium salts, Sandmeyer reaction.	Evaluate
CH 514.3	Remember addition to cyclopropane ring. Hydrogenation of double and triple bonds, hydrogenation of aromatic rings. Hydroboration, Michael reaction, sharpless asymmetric epoxidation.	Remember
CH 514.4	Explain the organozinc and organolithium reagents to carbonyl and unsaturated carbonyl compounds. Wittig reaction. Mechanism of condensation reactions involving enolates-Aldol, Knoevenagel, Claisen, Mannich, Benzoin, Perkin and Stobbe reactions.	Explain
CH 514.5	Understand the E2, E1 and E1CB mechanisms and their spectrum. Orientation of the double bond. Mechanism and orientation in pyrolytic elimination.	Understand
CH 514.6	Apply FMO and PMO approach. Correlation diagram, selection rules. Claisen, Cope and aza-Cope rearrangements, Ene reaction.	Apply

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Course Outcomes

Course Name: Laboratory course in Chemistry-IV

Course Code: CH 262

Year: Academic Year: 2019-20

Semester: IV Spring

Faculty Name: Dr. K.L.Ameta

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

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH 262.1	Understand handling with various chemistry glasswares and chemicals in organic chemistry laboratory.	Understand
CH 262.2	Learn and prepare various solutions used in the chemistry laboratory	Create
CH 262.3	Identify various organic compounds and characterize them.	Identify
CH 262.4	Prepare Benzophenone oxime from benzophenone	Understand
CH 262.5	Test the extra elements present in organic compounds through L.S and identification of functional groups	Evaluate
CH 262.6	Process of purification of a given organic sample solid/liquid through crystallization	Remember

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Course Outcomes

Course Name: Organic Chemistry Laboratory-II
Course Code: CH 572
Year: M.Sc. I year 2019-20
Semester: II Spring
Faculty Name: Dr. K. L. Ameta

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH 572.1	Understand the synthesis of organic compounds by different mechanisms and quantitative analysis.	Understand
CH 572.2	Evaluate the percentage of sulphur in the given organic sample by Messenger's method.	Evaluate
CH 572.3	Explain the determination of DO, COD and BOD of water sample.	Explain
CH 572.4	Create the Synthesis of p-nitroaniline and p-bromoaniline.	Create
CH 572.5	Analyze the Friedel Crafts reaction: β-Benzoyl propionic acid from succinic anhydride and benzene.	Analyze
CH 572.6	Describe the Acetoacetic ester Condensation : Synthesis of ethyl-n-butylacetoacetate by A.E.E. condensation.	Describe

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Course Outcomes

Course Name: Organic Synthesis II

Course Code: CH 612

Year: M.Sc. II year 2019-20

Semester: IV Spring

Faculty Name: Dr. K. L. Ameta

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH 612.1	Understand disconnection approach, functional group inter-conversions, the importance of the order of events in organic synthesis, one group C-X and two group C-X disconnections, chemoselectivity, reversal of polarity, cyclisation reaction, amine synthesis.	Understand
CH 612.2	Analyze the Diels-Alder Reaction, 1,3-difunctionalised compounds, α, β- unsaturated carbonyl compounds, control in carbonyl condensations, 1,5-difunctionalised compounds. Micheal addition and Robinson annelation.	Analyze
CH 612.3	Remember the synthesis of 3-, 4-, 5- and 6-membered rings and aromatic heterocycles in organic synthesis.	Remember
CH 612.4	Apply acetylenes and aliphatic Nitro compounds in organic synthesis.	Apply
CH 612.5	Explain the Principle of protection of alcohol, amine, carbonyl and carboxyl groups.	Explain
CH 612.6	Describe the synthesis of Camphor, Longifoline, Cortisone, Reserpine, Vitamin D, Juvabione, Aphidicolin and Fredericamycin A.	Describe

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Course Outcomes

Course Name: Photochemistry and Green Chemistry Laboratory

Course Code: CH 364

Year: B.Sc. III year 2019-20

Semester: VI Spring

Faculty Name: Dr. K. L. Ameta

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH 364.1	Understand the role of photochemical reactions	Understand
CH 364.2	Perform the green synthesis of Aspirin	Create
CH 364.3	Remember the terms and steps of preparation of Paracetamol and characterize it	Remember
CH 364.4	Design the preparation of acetanilide	Design
CH 364.5	Apply the photochemical reduction to benzophenone	Apply
CH 364.6	Purify all the prepared drugs through crystallization	Analyze

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Course Outcomes

Course Name: Physical Geography-I

Course Code: GY 111

Year: 2019-20

Semester: Autumn

Faculty Name: Dr. Tathagata Ghosh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
GY 111.1	Understand the solar system and theories regarding origin of different planets.	Understand
GY 111.2	Understand components of earth and internal structure of the earth	Understand
GY 111.3	Define Rocks, its modes of occurrence	Understand
GY 111.4	Remember folding, faulting, earth quake and volcanoes.	Remember
GY 111.5	Remember different types of weathering	Remember
GY 111.6	Remember work of different agents and resulted landforms.	Remember

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Course Outcomes

Course Name: Bio-Geography- I

Course Code: GY 121

Year: 2019-20

Semester: Autumn

Faculty Name: Dr. Tathagata Ghosh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
GY 121.1	Understand the concept of ecology, ecosystem, food chain, food web and energy pyramid.	Understand
GY 121.2	Remember biogeochemical cycles.	Remember
GY 121.3	Describe factors and processes of soil formation and soil profile	Understand
GY 121.4	Remember distribution of flora and fauna and ecological factors of plants	Remember
GY 121.5	Understand biome and biodiversity	Understand
GY 121.6	Understand biodiversity hotspots of India and causes and consequences of human induced changes in the ecosystem.	Understand

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Course Outcomes

Course Name: Geography of India

Course Code: GY 211

Year: 2019-20

Semester: Autumn

Faculty Name: Dr. Tathagata Ghosh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
GY 211.1	Remember the Physiography and Geology of India	Remember
GY 211.2	Understand Drainage and Climate of India	Understand
GY 211.3	Understand Soils and Vegetation of India	Understand
GY 211.4	Understand Demographic Aspects of India	Understand
GY 211.5	Understand Cultural and Social Aspects of India	Understand
GY 211.6	Understand contemporary issues of India	Understand

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Course Outcomes

Course Name: Human Geography

Course Code: GY 221

Year: 2019-20

Semester: Autumn

Faculty Name: Dr. Tathagata Ghosh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
GY 221.1	Define human geography and theories.	Understand
GY 221.2	Explain adaptation in different parts of the world	Understand
GY 221.3	Explain elements of environment	Understand
GY 221.4	Describe causes and consequences of migration	Understand
GY 221.5	Determine urbanization and problems associated with.	Understand
GY 221.6	Explain region.	Understand

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Course Outcomes

Course Name: Climatology and Oceanography

Course Code: GY 311

Year: 2019-20

Semester: Autumn

Faculty Name: Dr. Tathagata Ghosh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
GY 311.1	Explain components of atmosphere	Understand
GY 311.2	Remember circulation of atmosphere	Remember
GY 311.3	Understand atmospheric disturbances	Understand
GY 311.4	Explain geography of ocean basin	Understand
GY 311.5	Explain salinity, temperature and density of ocean water.	Understand
GY 311.6	Explain dynamics of ocean water, coral reefs and ocean deposits.	Understand

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Course Outcomes

Course Name: Man and Environment

Course Code: GY 321

Year: 2019-20

Semester: Autumn

Faculty Name: Dr. Tathagata Ghosh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
GY 321.1	Explain components of environment	Understand
GY 321.2	Understand relationship between Man and Environment	Understand
GY 321.3	Describe deterministic, possibilistic and neo determinism approach.	Understand
GY 321.4	Understand Changing relationship of Man and Environment and Issues	Understand
GY 321.5	Understand Environmental Issues	Understand
GY 321.6	Remember Environmental Management	Remember

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Course Outcomes

Course Name: Practical Geography-I

Course Code: GY 132

Year: 2019-20

Semester: Spring

Faculty Name: Dr. Tathagata Ghosh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
GY 132.1	Explain different types of scales.	Understand
GY 132.2	Convert different type of scale.	Create
GY 132.3	make linear scale.	Create
GY 132.4	Prepare diagonal scale and vernier scale.	Create
GY 132.5	explain the concept of contour and projection.	Understand
GY 132.6	Create contour features.	Create

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Course Outcomes

Course Name: Physical Geography-II

Course Code: GY 112

Year: 2019-20

Semester: Spring

Faculty Name: Dr. Tathagata Ghosh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
GY 112.1	remember the geological time scale.	Remember
GY 112.2	explain the mechanism of isostasy	Understand
GY 112.3	develop the understanding of mountain building.	Create
GY 112.4	develop the understanding of plate tectonic.	Create
GY 112.5	explain the mechanism of endogenetic and exogenetic forces.	Understand
GY 112.6	define the cycle of erosion and its relation to drainage basin.	Understand

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Course Outcomes

Course Name: Bio-Geography- II

Course Code: GY 122

Year: 2019-20

Semester: Spring

Faculty Name: Dr. Tathagata Ghosh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
GY 122.1	explain the meaning of Succession.	Understand
GY 122.2	remember the meaning of climax.	remember
GY 122.3	Describe major biomes of the world and its association to the soils.	Understand
GY 122.4	Define the characteristics of ecology.	Understand
GY 122.5	Explain the interspecific relationships.	Understand
GY 122.6	Explain the impact of human interventions in the community ecology.	Understand

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Course Outcomes

Course Name: Economic Geography

Course Code: GY 212

Year: 2019-20

Semester: Spring

Faculty Name: Dr. Tathagata Ghosh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
GY 212.1	define economic geography.	Understand
GY 212.2	Explain the relationship of economic geography and its relation to space and time.	Understand
GY 212.3	Explain the classification of economic activities of the world.	Understand
GY 212.4	describe different types of agriculture systems.	Understand
GY 212.5	Determine the factors affecting location of economic activity.	Understand
GY 212.6	Explain the determinants of location of industries.	Understand

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Course Outcomes

Course Name: Geography of Resources

Course Code: GY 222

Year: 2019-20

Semester: Spring

Faculty Name: Dr. Tathagata Ghosh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
GY 222.1	Explain the concept of resources.	Understand
GY 222.2	identify the misconceptions of resources.	Remember
GY 222.3	differentiate between renewable and non-renewable resources.	Understand
GY 222.4	Explain the distribution of zinc, mica and gold.	Understand
GY 222.5	Explain the distribution of coal in India.	Understand
GY 222.6	Explain the distribution of petroleum in India.	Understand

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Course Outcomes

Course Name: Practical Geography-II

Course Code: GY 232

Year: 2019-20

Semester: Spring

Faculty Name: Dr. Tathagata Ghosh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
GY 232.1	Explain different types of cartographic techniques in geography	Understand
GY 232.2	create one, two and three dimensional diagrams.	Create
GY 232.3	interpret topographical maps.	Understand
GY 232.4	determine chain and tape survey.	Apply
GY 232.5	Determine stream ordering	Apply
GY 232.6	create profiles of topography.	Create

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Course Outcomes

Course Name: Geography of Settlement

Course Code: GY 312

Year: 2019-20

Semester: Spring

Faculty Name: Dr. Tathagata Ghosh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
GY 312.1	Define the characteristics of settlement geography.	Understand
GY 312.2	differentiate between metropolis, megalopolis, conurbation and rural-urban fringe and town.	Remember
GY 312.3	List out the determinants of rural settlement.	Understand
GY 312.4	Explain the characteristics of rural urban fringe.	Analyze
GY 312.5	Analyze determinants of urban settlements.	Understand
GY 312.6	Explain the settlement pattern.	Understand

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Course Outcomes

Course Name: Spatial Dimensions of Development

Course Code: GY 322

Year: 2019-20

Semester: Spring

Faculty Name: Dr. Tathagata Ghosh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
GY 322.1	Define the concept of development and planning.	Understand
GY 322.2	Differentiate between growth and development.	Understand
GY 322.3	differentiate between indicators of economic, social and environmental development.	Understand
GY 322.4	analyze formal and functional regions.	Analyze
GY 322.5	Understand the meaning of spatial dimensions.	Understand
GY 322.6	Analyze the characteristics of equity and efficiency.	Analyze

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Course Outcomes

Course Name: Practical Geography-III

Course Code: GY 332

Year: 2019-20

Semester: Spring

Faculty Name: Dr. Tathagata Ghosh

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
GY 332.1	makefrequency distribution	Apply
GY 332.2	Prepare frequency curves and ogive.	Apply
GY 332.3	Calculate central tendency and dispersion.	Apply
GY 332.4	Understand the mechanism of prismatic compass survey	Understand
GY 332.5	Make climatic graphs.	Apply
GY 332.6	Remember weather symbols	Apply

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Course Outcomes

Course Name: Vedic Knowledge
Course Code: VK 111
Credit Hours: 03
Semester, Year: Autumn/Spring
Branch: CBCS (Open to All University Students)
Prerequisite: Interest in knowing about the knowledge of Vedas and Vedic Culture and literature

Module wise Course Outcome (CO)

Course Outcome Number	Course Outcome	Bloom Taxonomy
	At the end of the course, Student will be able to:	
VK111.1	To understand the importance and significance of the Vedas in Indian tradition and the emergence of the Vedas	Understand
VK111.2	Understand the pronunciation rules of Vedic words and the definition and concept of Suktas in the Vedas	Understand
VK111.3	Understand many important concepts related to the Rigveda and the Yajurveda e.g. Samhita, Brahamana, Aranyaka and Upanishad.	Understand
VK111.4	Analyze the Suktas of Indrasuktam (Lord of rain), Vishnusuktam (Lord of Rain) and Shanti-adhyaya (Prayer for Harmony) from Yajurveda and Rudrasuktam from Shukla Yajurveda.	Analyze
VK111.5	Analyze the Suktas of Suryasuktam (Lord of Light) and Narayansuktam (Lord of Universe) from Yajurveda and the Suktas of Ganapatistavnam (God of Wisdom) Rasthrageetam (Song of Nation) and Swastivachanam (Faith in God) from Shukla Yajurveda Samhita.	Analyze
VK111.6	Analyze the Suktas of Medhasuktam (Perception Power), Shivasuktam (Concept of Mind) and Purushasuktam (Lord of Universe) from Shukla Yajurveda Samhita and the Suktas of Saraswati-stavanam (Goddess of Learning), Shaantipaathah (Serenity prayer of Yajurveda) from Shukla Yajurveda Samhita.	Analyze

Faculty Name: Dr. Amod Kumar Tiwari

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Course Outcomes

Course Name: Genetic Engineering and Fermentation Technology Laboratory

Course Code: MB 671

Year: Academic Year: 2019-20

Semester: Autumn

Faculty Name: Dr. Harish Kumar Dhingra & Dr. Navneet Joshi

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

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MB 671.1	Visit the Genetic Engineering laboratory and understand the working of various instruments to be used during the Genetic Engineering expts.	Analyse
MB 671.2	Learn and prepare various buffers used in the Genetic Engineering laboratory	Create
MB 671.3	Preparation of various stock solutions used in the Genetic Engineering laboratory	Create
MB 671.4	Learn about plasmid DNA preparation and Analyze the quality and quantity of isolated DNA sample using nano drop spectrophotometer	Understand
MB 671.5	Isolate and electrophorese plasmid DNA from overnight grown culture of *E. coli*	Create
MB 671.6	To Analyse various fermentation techniques for the production of high value products	Analyse

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Course Outcomes

Course Name: Medical, Environmental and Agricultural Microbiology Laboratory

Course Code: MB 651

Year: Academic Year: 2019-20

Semester: Autumn

Faculty Name: Dr. Harish Kumar Dhingra

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

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MB 651.1	Isolate rhizobial cells from the root nodules of legumes and analyze the various identification characters of rhizobial cells	Analyse
MB 651.2	Perform bacteriological examination of water	Analyse
MB 651.3	Analyze the diversity of the microflora present in rhizospheric and non-rhizospheric soil	Analyse
MB 651.4	Calculation of the R:S ratio, Calculation of MPN of coliform in water	Apply
MB 651.5	Determination of TDS, TS and TSS, chloride ion concentration, dissolved oxygen in the given water sample	Analyse
MB 651.6	Estimation and analysis of microflora obtained from dental carries, skin and other body parts	Analyse

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Course Outcomes

Course Name: Microbial Ecology Laboratory

Course Code: MB 322

Year: Academic Year: 2019-20

Semester: Spring

Faculty Name: Dr. Harish Kumar Dhingra

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

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MB 322.1	Isolate rhizobial cells from the root nodules of legumes and analyze the various identification characters of rhizobial cells	Analyse
MB 322.2	Perform bacteriological examination of water	Analyse
MB 322.3	Analyze the diversity of the microflora present in rhizospheric and non-rhizospheric soil	Analyse
MB 322.4	Calculation of the R:S ratio, Calculation of MPN of coliform in water	Apply
MB 322.5	Determination of TDS, TS and TSS in the given water sample	Analyse
MB 322.6	Estimation of chloride ion concentration, dissolved oxygen in water	Analyse

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Course Outcomes

Course Name: Microbial Ecology

Course Code: MB 312

Year: Academic Year: 2019-20

Semester: Spring

Faculty Name: Dr. Harish Kumar Dhingra

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

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MB 312.1	Learn the concept of biodiversity and application of biotechnology in its conservation	Understand
MB 312.2	Learn the about bioleaching process of copper and uranium from their ores and about MEOR	Understand
MB 312.3	Learn about different types of biofuels-bioethanol, biodiesel and bio-gas and about their advantages and limitations	Understand
MB 312.4	Learn about biopesticides and biogeochemical cycles and role of microbes in each cycle	Understand
MB 312.5	Learn the concept of biofertilizers and waste water treatment methods	Understand
MB 312.6	Apply their knowledge to perform biodegradation at contamination site by taking case by case study	Apply

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Course Outcomes

Course Name: Microbial Physiology and Genetics

Course Code: MB 211

Year: Academic Year: 2019-20

Semester: Autumn

Faculty Name: Dr. Harish Kumar Dhingra

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

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MB 211.1	Learn the concept of Nutritional classification and metabolite transport	Understand
MB 211.2	Learn the Chemolitho- and photo-trophic metabolism	Understand
MB 211.3	Learn about Microbial Energetics	Understand
MB 211.4	Apply the knowledge for Concept of aerobic respiration, anaerobic respiration and fermentation. Central metabolic pathways	Apply
MB 211.5	Learn the Applications of Transformation, Transduction, Conjugation, Plasmids, and Transposons.	Understand
MB 211.6	Learn mechanism of Basic concepts of mutation, Molecular nature of mutations.	Understand

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Course Outcomes

Course Name: Environmental Biotechnology

Course Code: BT 342

Year: Academic Year: 2019-20

Semester: Spring

Faculty Name: Dr. Harish Kumar Dhingra

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

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BT 342.1	Learn the concept of biodiversity and application of biotechnology in its conservation	Understand
BT 342.2	Learn the about bioleaching process of copper and uranium from their ores and about MEOR	Understand
BT 342.3	Learn about different types of biofuels-bioethanol, biodiesel and bio-gas and about their advantages and limitations	Understand
BT 342.4	Learn about biopesticides and biogeochemical cycles and role of microbes in each cycle	Understand
BT 342.5	Learn the concept of biofertilizers and waste water treatment methods	Understand
BT 342.6	Apply their knowledge to perform biodegradation at contamination site by taking case by case study	Apply

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Course Outcomes

Course Name: Genetic Engineering Laboratory

Course Code: BT 341

Year: Academic Year: 2019-20

Semester: Autumn

Faculty Name: Dr. Harish Kumar Dhingra

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

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BT 341.1	Visit the Genetic Engineering laboratory and understand the working of various instruments to be used during the Genetic Engineering expts.	Analyse
BT 341.2	Learn and prepare various buffers used in the Genetic Engineering laboratory	Create
BT 341.3	Preparation of various stock solutions used in the Genetic Engineering laboratory	Create
BT 341.4	Learn about plasmid DNA preparation	Understand
BT 341.5	Isolate and electrophorese plasmid DNA from overnight grown culture of *E. coli*	Create
BT 341.6	Analyze the quality and quantity of isolated DNA sample using nano drop spectrophotometer	Analyse

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Course Outcomes

Course Name: Genetic Engineering

Course Code: BT 311

Year: Academic Year: 2019-20

Semester: Autumn

Faculty Name: Dr. Harish Kumar Dhingra

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

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BT 311.1	Learn the concept of Enzymes in Molecular Cloning, Principal enzymes used to manipulate DNA in vitro with their activities	Understand
BT 311.2	Learn the Cloning and Expression Vectors, Brief outline of plasmids, phagemids, bacteriophage lambda vectors	Understand
BT 311.3	Learn about DNA Cloning Strategies Criteria for the choice of suitable vectors and host	Understand
BT 311.4	Apply the knowledge for Tools of Recombinant DNA Technology	Apply
BT 311.5	Learn the Applications of Recombinant DNA Technology	Understand
BT 311.6	Learn mechanism of novel drug and therapies for genetic diseases, combating infectious diseases	Understand

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Course Outcomes

Course Name: Molecular Biology

Course Code: BT 212

Year: Academic Year: 2019-20

Semester: Spring

Faculty Name: Dr. Harish Kumar Dhingra

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

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BT 212.1	Learn the concept of molecular basis of life by knowing the structure & properties of DNA and its organization in the cell	Understand
BT 212.2	Learn the nature of DNA replication in prokaryotes and eukaryotes and the maintenance of fidelity in the process	Understand
BT 212.3	Learn about mechanism of physical and chemical mutagens, and the method of mutation detection	Understand
BT 212.4	Apply the knowledge for understanding the mechanism of DNA repair	Apply
BT 212.5	Learn the process of transcription in prokaryotes and eukaryotes and splicing process	Understand
BT 212.6	Learn mechanism of polypeptide synthesis and concept of gene regulation	Understand

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Course Outcomes

Course Name: Molecular Biology Laboratory

Course Code: BT 232

Year: Academic Year: 2019-20

Semester: Spring

Faculty Name: Dr. Harish Kumar Dhingra

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

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BT 232.1	Visit the molecular biology laboratory and understand the working of various instruments to be used during the molecular biology expts.	Analyse
BT 232.2	Learn and prepare various buffers used in the molecular biology laboratory	Create
BT 232.3	Preparation of various stock solutions used in the molecular biology laboratory	Create
BT 232.4	Learn about plasmid DNA preparation	Understand
BT 232.5	Isolate and electrophorese plasmid DNA from overnight grown culture of *E. coli*	Create
BT 232.6	Analyze the quality and quantity of isolated DNA sample using nano drop spectrophotometer	Analyse

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Course Outcomes

Course Name: Environmental Biotechnology

Course Code: BT 621

Year: Academic Year: 2019-20

Semester: Autumn

Faculty Name: Dr. Harish Kumar Dhingra

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

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BT 621.1	Learn the concept of biodiversity and application of biotechnology in its conservation	Understand
BT 621.2	Learn the about bioleaching process of copper and uranium from their ores and about MEOR	Understand
BT 621.3	Learn about different types of biofuels-bioethanol, biodiesel and bio-gas and about their advantages and limitations	Understand
BT 621.4	Learn about biopesticides and biogeochemical cycles and role of microbes in each cycle	Understand
BT 621.5	Learn the concept of biofertilizers and waste water treatment methods	Understand
BT 621.6	Apply their knowledge to perform biodegradation at contamination site by taking case by case study	Apply

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Course Outcomes

Course Name: Genetic Engineering

Course Code: BT 611

Year: Academic Year: 2019-20

Semester: Autumn

Faculty Name: Dr. Harish Kumar Dhingra

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

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BT 611.1	Learn the concept of Enzymes in Molecular Cloning, Principal enzymes used to manipulate DNA in vitro with their activities	Understand
BT 611.2	Learn the Cloning and Expression Vectors, Brief outline of plasmids, phagemids, bacteriophage lambda vectors	Understand
BT 611.3	Learn about DNA Cloning Strategies Criteria for the choice of suitable vectors and host	Understand
BT 611.4	Apply the knowledge for Tools of Recombinant DNA Technology	Apply
BT 611.5	Learn the Applications of Recombinant DNA Technology	Understand
BT 611.6	Learn mechanism of novel drug and therapies for genetic diseases, combating infectious diseases	Understand

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Course Outcomes

Course Name: Molecular Biology and Immunology Laboratory

Course Code: BT 572

Year: Academic Year: 2019-20

Semester: Spring

Faculty Name: Dr. Harish Kumar Dhingra

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

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BT 572.1	Determine the working of various instruments to be used during the molecular biology experiments	Analyse
BT 572.2	Learn and prepare various buffers and stock solutions used in the molecular biology laboratory	Create
BT 572.3	Learn about plasmid DNA preparation and its use in the genetic engineering experiments as a cloning vector	Understand
BT 572.4	Isolate plasmid DNA from overnight grown culture of *E. coli*	Create
BT 572.5	Perform the electrophoresis of the isolated DNA sample	Analyse
BT 572.6	Analyze the quality and quantity of isolated DNA sample using nano drop spectrophotometer and UV spectrophotometer	Analyse

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Course Outcomes

Course Name: Molecular Biology

Course Code: BT 534

Year: Academic Year: 2019-20

Semester: Spring

Faculty Name: Dr. Harish Kumar Dhingra

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

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BT 534.1	Learn the structure & properties of DNA, C-value, denaturation and renaturation concepts	Understand
BT 534.2	Learn the role of different proteins in replication, nature of DNA replication and the structure of DNA polymerase	Understand
BT 534.3	Learn the process of transcription, types of polymerases, promoter, Enhancers and transcription factors	Understand
BT 534.4	Learn nature of codon, anticodon, genetic code, mechanism of polypeptide synthesis, structure of tRNA and ribosome.	Understand
BT 534.5	Learn the difference in the initiation mechanism of prokaryotes and Eukaryotes	Understand
BT 534.6	Learn the different types of post transcriptional modifications and gene regulation	Understand

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Course Outcomes

Course Name: Environmental Biotechnology Laboratory

Course Code: BT 392

Year: Academic Year: 2019-20

Semester: Spring

Faculty Name: Dr. Harish Kumar Dhingra

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

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BT 392.1	Isolate rhizobial cells from the root nodules of legumes and analyze the various identification characters of rhizobial cells	Analyse
BT 392.2	Perform bacteriological examination of water	Analyse
BT 392.3	Analyze the diversity of the microflora present in rhizospheric and non-rhizospheric soil	Analyse
BT 392.4	Calculation of the R:S ratio, Calculation of MPN of coliform in water	Apply
BT 392.5	Determination of TDS, TS and TSS in the given water sample	Analyse
BT 392.6	Estimation of chloride ion concentration, dissolved oxygen in water	Analyse

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Course Outcomes

Course Name: Enzyme Technology

Course Code: BT 334

Year: III

Semester: 6th

Faculty Name: Dr. Kanti Prakash Sharma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BT334.1	Remember enzymes name, classification and nomenclatures	Remember
BT334.2	Understand the fundamentals of enzyme properties, , characteristics and mechanisms	Understand
BT334.3	Apply biochemical calculation for enzyme kinetics	Apply
BT334.4	Analyze methods for production, purification, characterization and immobilization of enzymes	Analyse
BT334.5	Evaluate various application of enzymes for human welfare	Evaluate
BT334.6	Discover the current and future trends of applying enzyme technology for the commercialization purpose of biotechnological products.	Create

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Course Outcomes

Course Name: Medical Biotechnology

Course Code: BP 391

Year: II

Semester: 3rd

Faculty Name: Dr K P Sharma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BT391.1	Students will have the knowledge on the fundamentals molecular changes during disease onsets and progression	Remember
BT391.2	Students will be able to understand the principles behind medical biotechnology	Understand
BT391.3	Students will be able to apply modern tools and equipments to identify diseases and medicines.	Apply
BT391.4	Students will analyse applications in biotechnological advancements in diseases diagnosis and management	Analyse
BT391.5	Students will also be able to evaluate the principles of diseases occurrences	Evaluate
BT391.6	Students will also develop specific skill based on their interest in medical diagnostics lab	Create

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Course Outcomes

Course Name: Modern biology

Course Code: BT 381

Year: 19-20

Semester: Spring

Faculty Name: Dr. K P Sharma

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

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BT381.1	Remember biosensor names and types, Types Intellectual protection	Remember
BT 381.2	Understand the working of biosensor functional mechanism Nano science application in various fields an dmethods of scientific communication	Understand
BT381.3	Apply nano sciences innovations, IP protection and scientific communication methods	Apply
BT381.4	Analyze the use of nanotechnology, biosensor innovations and IP protection in daily life	Analyse
BT381.5	Evaluate various application of nanotechnology, biosensor innovations and IP protection for human welfare	Evaluate
BT381.6	Discover the use of current and future trends of applying nanotechnology, biosensor and IP protection and scientific communications for the commercialization purpose of biotechnological products.	Create

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Course Outcomes

Course Name: Food Technology

Course Code: BT 271

Year: 19-20

Semester: Autumn

Faculty Name: Dr. K P Sharma

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

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BT271.1	Students will have the knowledge on the fundamentals biochemical changes during processing and preservation and preparations of nutraceuticals.	Remember
BT271.2	Students will be able to understand the principles behind analytical techniques used in evaluating the biochemical properties of food.	Understand
BT271.3	Students will be able to apply modern tools and equipments to analyze food composition, identify microorganism responsible for food spoilage.	Apply
BT271.4	Students will analyse applications in food industry, food processing, conventional and advanced methods of food preservation, methods of packing, post-harvest practices	Analyse
BT271.5	Students will also be able to evaluate the principles of Hazard Analysis and Critical Control Points (HACCP) to ensure safe food processing.	Evaluate
BT271.6	Students will also develop specific skill based on their interest in meat, poultry and fish processing, food fermentation, dairy processing.	Create

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Course Outcomes

Course Name: Food Technology Laboratory

Course Code: BT 261

Year: 19-20

Semester: Autumn

Faculty Name: Dr. K P Sharma

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

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BT 261.1	Role of microorganisms in food fermentation	Remember
BT 261.2	Basic mechanisms of microbial fermentation	Understand
BT 261.3	Apply the utility of microorganism in reducing food toxicity	Apply
BT 261.4	Analyze the changes during food fermentation	Analyse
BT 261.5	Evaluate food with reference to its quality	Evaluate
BT 261.6	Develop novel foods with the help of microorganism	Create

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Course Outcomes

Course Name: Bioethics and IPR

Course Code: BT 181

Year: 19-20

Semester: Autumn

Faculty Name: Dr. K P Sharma

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

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BT181.1	Students will have the knowledge on the IPR	Remember
BT181.2	Students will be able to understand various forms of IPR	Understand
BT181.3	Students will be able to apply her knowledge of IPR for protection of her work	Apply
BT181.4	Students will analyze applications of IPR for various work	Analyse
BT181.5	Students will also be able to evaluate the types of IPR with reference to product and process	Evaluate
BT181.6	Students will also develop specific skill to find out most appropriate method for IPR protection	Create

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Course Outcomes

Course Name: Biotechnology and Human Welfare

Course Code: BT 171

Year: 19-20

Semester: Autumn

Faculty Name: Dr. K P Sharma

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

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BT171.1	Students will have the knowledge on the fundamentals of Biotechnology.	Remember
BC171.2	Students will be able to understand the principles of Biotechnology tools and techniques	Understand
BC171.3	Students will be able to apply experimental skills to find out solution of today's world problem.	Apply
BC171.4	Students will analyze the potential of Biotechnology in solving world today's issues and concerns adversely affecting human life	Analyse
BC171.5	Students will also be able to evaluate application of Biotechnology in Animal, Plant, Food and Chemical sector	Evaluate
BC171.6	Students will also develop specific method for issues related with quality of human life	Create

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Course Outcomes

Course Name: Biomolecules

Course Code: BC 531

Year: 19-20

Semester: Autumn

Faculty Name: Dr. K P Sharma

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

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BC531.1	Students will have the knowledge on the fundamentals of biomolecules.	Remember
BC531.2	Students will be able to understand the principles biochemical interactions	Understand
BC 531.3	Students will be able to apply experimental skills to analyze metabolic disturbances	Apply
BC531.4	Students will analyze applications of biochemistry in human diseases	Analyse
BC531.5	Students will also be able to evaluate the basic aspects of biochemistry in metabolism	Evaluate
BC 531.6	Students will also develop specific skill based on their interest in designing protocols for protein, lipid and carbohydrate quantification	Create

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Course Outcomes

Course Name: Biomolecules and Instrumentation Laboratory

Course Code: BC 541

Year: 19-20

Semester: Autumn

Faculty Name: Dr. K P Sharma

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

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BT 541.1	Preparing various stock solutions and working solutions that will be needed for the course.	Remember
BT 541.2	To prepare an Acetic-Na Acetate Buffer and validate the Henderson-Hasselbach equation.	Understand
BT 541.3	Determination of protein concentration by ultraviolet spectroscopy	Apply
BT 541.4	Amino acid titration	Understand
BT 541.5	Separation of aliphatic, aromatic and polar amino acids by thin layer chromatography.	Understand
BT 541.6	To determine an unknown protein concentration by plotting a standard graph of BSA using UV-Vis Spectrophotometer and validating the Beer- Lambert"s Law.	Analyze

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Course Outcomes

Course Name: Enzymology

Course Code: BC 611

Year: 19-20

Semester: Autumn

Faculty Name: Dr. K P Sharma

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

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BC 611.1	Remember enzymes name, classification and nomenclatures	Remember
BC 611.2	Understand the fundamentals of enzyme properties, , characteristics and mechanisms	Understand
BC 611.3	Apply biochemical calculation for enzyme kinetics	Apply
BC 611.4	Analyze methods for production, purification, characterization and immobilization of enzymes	Analyse
BC 611.5	Evaluate various application of enzymes for human welfare	Evaluate
BC 611.6	Discover the current and future trends of applying enzyme technology for the commercialization purpose of biotechnological products.	Create

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Course Outcomes

Course Name: Enzyme and Industrial Biochemistry Laboratory

Course Code: BC 322

Year: 19-20

Semester: Spring

Faculty Name: Dr. K P Sharma

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

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BC322.1	Know presence or absence of enzyme	Remember
BC322.2	Differentiate among various enzyme sources for industrial useful features	Understand
BC322.3	Understand the use of instruments for enzyme isolation and production	Apply
BC322.4	Apply biochemical calculation for enzyme activity determination	Analyse
BC322.5	Analyse methods for production, purification, characterization and immobilization of enzymes	Evaluate
BC322.6	Develop methods for production of enzyme	Create

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Course Outcomes

Course Name: Chemistry Biomolecules

Course Code: BC 511

Year: 19-20

Semester: Autumn

Faculty Name: Dr. K P Sharma

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

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BC511.1	Students will have the knowledge on the fundamentals of biomolecules.	Remember
BC511.2	Students will be able to understand the principles biochemical interactions	Understand
BC 511.3	Students will be able to apply experimental skills to analyze metabolic disturbances	Apply
BC511.4	Students will analyze applications of biochemistry in human diseases	Analyse
BC511.5	Students will also be able to evaluate the basic aspects of biochemistry in metabolism	Evaluate
BC 511.6	Students will also develop specific skill based on their interest in designing protocols for protein, lipid and carbohydrate quantification	Create

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Course Outcomes

Course Name: Enzyme and Industrial Biochemistry

Course Code: BC 312

Year: 19-20

Semester: Spring

Faculty Name: Dr. K P Sharma

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

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BC312.1	Describe methods for production, purification, characterization and immobilization of enzymes	Remember
BC312.2	Understand the fundamentals of enzyme properties, nomenclatures and characteristics	Understand
BC312.3	Apply biochemical calculation for enzyme kinetics	Apply
BC312.4	Illustrate various application of enzymes for human welfare	Analyse
BC312.5	Evaluate microbial approach for waste management	Evaluate
BC312.6	Develop methods for metal extractions, biofuel production with the help of microorganisms	Create

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Course Outcomes

Course Name: General Biochemistry

Course Code: BC 111

Year: 1st

Semester: First

Faculty Name: Dr. K P Sharma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BC111.1	Students will have the knowledge of the chemical molecules of a cell	Remember
BC111.2	Students will be able to understand the interaction among the chemical molecules	Understand
BC111.3	Students will be able to methods to analyze carbohydrate, lipid and protein content	Apply
BC111.4	Students will analyse chemicals presence and their interaction with respect to diseases	Analyse
BC111.5	Students will also be able to evaluate the role of structure in functional aspects of foods	Evaluate
BC111.6	Students will also develop specific skill based on their interest in biochemical analysis in diseases conditions.	Create

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Course Outcomes

Course Name: General Biochemistry Laboratory

Course Code: BC 121

Year: 1st

Semester: First

Faculty Name: Dr. K P Sharma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BC 121.1	Methods to determine carbohydrate protein and lipids in sample	Remember
BC 121.2	Basic principal to know the methodology	Understand
BC 121.3	Check whether a sample contains carbohydrate protein and lipids or not	Apply
BC 121.4	Compare how much carbohydrate protein and lipids is present	Analyse
BC 121.5	Learn how enzyme functions	Evaluate
BC 121.6	Develop method to determine carbohydrate protein and lipids in any sample	Create

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Course Outcomes

Course Name: Microbial Genetics

Course Code: MB 631

Year: I

Semester: Spring

Faculty Name: Prof. Rajarshi Kumar Gaur

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
1	Describe the fundamental molecular principles of genetics	Understand
2	Explain the structure and function of DNA, RNA and protein	Apply
3	Explain the relationship between phenotype and genotype in human genetic traits	Understand
4	Describe the basics of genetic mapping	Evaluate
5	Evaluate the Structure and function of plasmids and transposons	Evaluate
6	Understand how gene expression is regulated	Apply

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Course Outcomes

Course Name: Medical Microbiology

Course Code: MB 611

Year: 2019-2020

Semester: Autumn

Faculty Name: Dr. Rakesh Kumar Verma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MB611.1	Describe the normal micro-flora of the human body	Remember
MB611.2	Describe the infection process and strategies adopted by pathogens to evade immune system	Understand
MB611.3	Explain the pathogenesis, epidemiology of bacterial, fungal, viral and protozoan diseases	Understand
MB611.4	Describe the laboratory diagnosis and treatment methods for bacterial, fungal, viral and protozoan diseases	Understand
MB611.5	Assess treatment strategies including the appropriate use of antimicrobial agents and common mechanisms of antimicrobial action and resistance.	Evaluate
MB611.6	Recognize and diagnose common infectious diseases from the clinical presentation and associated microbiology.	Apply

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Course Outcomes

Course Name: Laboratory Course in Study of Microorganism

Course Code: MB 541

Year: 19-20

Semester: Autumn

Faculty Name: Dr. K P Sharma

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

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MB 541.1	Sterilization, disinfection and safety in microbiological laboratory.	Remember
MB 541.2	Preparation of media for cultivation of bacteria.	Understand
MB 541.3	Isolation of bacteria in pure culture by streak plate method.	Apply
MB 541.4	Study of colony and growth characteristics of some common bacteria: Bacillus, E. coli, Staphylococcus, Streptococcus, etc.	Apply
MB 541.5	Preparation of bacterial smear and Gram's staining.	Understand
MB 541.6	Enumeration of bacteria: standard plate count.	Analyze

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Course Outcomes

Course Name: Immunology

Course Code: MB 532

Year: M.Sc. First

Semester: Spring

Faculty Name: Dr. Amrita Narula

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MB 532.1	Describe the concept of Immunology, its types and theories.	Understand
MB 532.2	Differentiate about the types of cells involved in immunity and their development.	Understand
MB 532.3	Explain the concept of antigens, their characteristics, development and structure and types of antibodies etc.	Understand
MB 532.4	Contrast various techniques of antigen-antibody interaction	Apply
MB 532.5	Explain the concept behind cell mediated immune response: MHC, TCR signaling etc.	Understand
MB 532.6	Discuss about various immunological diseases, concept of vaccines development.	Understand

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Course Outcomes

Course Name: General Microbiology

Course Code: MB 531

Year: 19-20

Semester: Autumn

Faculty Name: Dr. K P Sharma

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

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MB531.1	Students will have the knowledge on the fundamentals of microroganims structure and functions.	Remember
MB531.2	Students will be able to understand the physiology of bacterial, fungal, viral and algal cell	Understand
MB531.3	Students will be able to apply knowledge of microbial physiology for food, industrial and environmental applications	Apply
MB531.4	Students will analyze the difference in working of bacterial, fungal, viral and algal cell	Analyse
MB531.5	Students will also be able to evaluate the potential of microbial cell for various applications	Evaluate
MB531.6	Students will also develop microbial consortium for food, industrial and environmental use	Create

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Course Outcomes

Course Name: Microbial Physiology, Food Microbiology and Microbial Genetics Laboratory

Course Code: MB 524

Year: I

Semester: Spring

Faculty Name: Dr.Kanti Prakash Sharma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MB524.1	Students will have the knowledge on the techniques involved in determining biochemical changes during processing and preservation and preparations of nutraceuticals.	Remember
MB524.2	Students will be able to understand the basic principles of analytical techniques used in evaluating the biochemical properties of food.	Understand
MB524.3	Students will be able to apply modern tools and equipments to analyze food composition, identify microorganism responsible for food spoilage.	Apply
MB524.4	Students will analyse applications in food industry, food processing, conventional and advanced methods of food preservation, methods of packing, post-harvest practices, manipulation in microbial metabolism	Analyse
MB524.5	Students will also be able to evaluate the principles the current application of microbial physiology, genetic engineering towards human welfare	Evaluate
MB524.6	Students will also develop microbial method for food and environment and agriculture industry	Create

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Course Outcomes

Course Name: Food Technology

Course Code: MB 514

Year: 19-20

Semester: Spring

Faculty Name: Dr. K P Sharma

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

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MB514.1	Students will have the knowledge on the fundamentals biochemical changes during processing and preservation and preparations of nutraceuticals.	Remember
MB514.2	Students will be able to understand the principles behind analytical techniques used in evaluating the biochemical properties of food.	Understand
MB514.3	Students will be able to apply modern tools and equipments to analyze food composition, identify microorganism responsible for food spoilage.	Apply
MB514.4	Students will analyse applications in food industry, food processing, conventional and advanced methods of food preservation, methods of packing, post-harvest practices	Analyse
MB514.5	Students will also be able to evaluate the principles of Hazard Analysis and Critical Control Points (HACCP) to ensure safe food processing.	Evaluate
MB514.6	Students will also develop specific skill based on their interest in meat, poultry and fish processing, food fermentation, dairy processing.	Create

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Course Outcomes

Course Name: Microbial Physiology and Metabolism

Course Code: MB 512

Year: M.Sc. First

Semester: Spring

Faculty Name: Dr. Amrita Narula

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MB 512.1	Describe the ways of transport mechanisms in microbes.	Understand
MB 512.2	Explain about various cycles involved in microbial respiratory metabolism.	Understand
MB 512.3	Interpret the detailed concept of microbial photosynthesis.	Understand
MB 512.4	Discuss various pathways of fixing carbon dioxide and photorespiration.	Analyze
MB 512.5	Describe about the nitrogen and lipid metabolism.	Understand
MB 512.6	Explain the concept of sporulation and dormancy.	Understand

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Course Outcomes

Course Name: Bacteriology and Phycology

Course Code: MB 511

Year: 19-20

Semester: Autumn

Faculty Name: Dr. K P Sharma

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

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MB511.1	Students will have the knowledge on the fundamentals of bacterial and algal cell structure and physiology.	Remember
MB 511.2	Students will be able to understand the physiology of bacterial and algal cell	Understand
MB 511.3	Students will be able to apply knowledge of bacterial and algal physiology for food, industrial and environmental applications	Apply
MB 511.4	Students will analyze the difference in working of bacterial and algal cell	Analyse
MB 511.5	Students will also be able to evaluate the potential bacterial or algal cell for various applications	Evaluate
MB 511.6	Students will also develop bacterial consortium for food, industrial and environmental use	Create

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Course Outcomes

Course Name: Food and Nutrition Laboratory-II

Course Code: FN 651

Year: 19-20

Semester: Autumn

Faculty Name: Dr. K P Sharma

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

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FN 651.1	To Determine Hunger Scale	Remember
FN 651.2	To Understand the functions of Modified Diet in Healthcare	Understand
FN 651.3	To monitor glucose tolerance test and diagnosis of Diabetes	Apply
FN 651.4	To study Public Health Nutrition Approach to manage nutritional Emergencies	Analyse
FN 651.5	To study promotion of healthy diet and Life style in Emergencey	Evaluate
FN 651.6	Planning and Preparation of Snacks for PEM	Create

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Course Outcomes

Course Name: Food Service Management

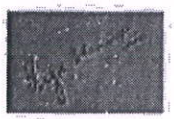
Course Code: FN 641

Year: 2019-20

Semester: Autumn

Faculty Name: Dr. Priya Sharma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FN641.1	Explain the different types of Food service Institutions	Understand
FN641.2	To study the theories about approaches to food service management	Remember
FN641.3	Discuss different types of principles and procedures of management	Understand
FN641.4	Explain the functions of personnel and material management in an organization	Understand
FN641.5	Analyze the financial management and its importance.	Analyze
FN641.6	To understand the changing food trends and marketing-influencing factors. Apply the principles and techniques of effective management.	Apply



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Course Outcomes

Course Name: Institutional Food administration

Course Code: FN 621

Year: 19-20

Semester: Autumn

Faculty Name: Dr. K P Sharma

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

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FN 621.1	Students will have the knowledge on the fundamentals of food business administraion	Remember
FN 621.2	Students will be able to understand the principles food business establishment	Understand
FN 621.3	Students will be able to apply market survey realted experimental skills for product sell	Apply
FN 621.4	Students will analyze results of market research for product or service establishment in food business	Analyse
FN 621.5	Students will also be able to evaluate the basic aspects of business administration in food industry	Evaluate
FN 621.6	Students will also develop product or service related to food industry	Create

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Course Outcomes

Course Name: Food and Nutritional Laboratory I

Course Code: FN 562

Year: M. Sc FN Iyr

Semester: Spring

Faculty Name: Dr. Nisha

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
562.1	Recall the procedure of estimation of different nutrients	Remember
562.2	Comprehend the principle behind the estimations	Understand
562.3	Anaylse the content of nutrients or anti-nutrients present in food	Apply
562.4	The situation of women in different setup with special reference to their health and nutritional status	Evaluate
562.5	Prepare different food combination helpful in various diseased conditions and for fitness in sports persons	Create

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Course Outcomes

Course Name: Nutrition for Health and Fitness

Course Code: FN532

Year: M. Sc FN Iyr

Semester: Spring

Faculty Name: Dr. Nisha

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
532.1	Define the various components of health and fitness	Remember
532.2	Comprehend the role of nutrition, physical activity and exercise in well being of the individual	Understand
532.3	Calculate the effect of different nutragenic aids and doping in a sports person and for carbohydrate loading before the performance	Apply
532.4	Analyse the different energy systems of fuel and nutrients in action for endurance and power activity within a person	Analyse
532.5	Determine the nutritional status of a sports person before, after and during performance	Evaluate
532.6	Prepare diet charts during sports periodization	Create

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Course Outcomes

Course Name: Women Nutrition and Health

Course Code: FN522

Year: M. Sc FN Iyr

Semester: Spring

Faculty Name: Dr. Nisha

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
522.1	Recall the demographic status of women in India and around the globe	Remember
522.2	Comprehend the role of women in development and in community and understand their prevailing health, nutritional and living conditions	Understand
522.3	Empower the women in society by creating awareness among them	Apply
522.4	Analyse the situation of women in different setups	Analyse
522.5	Assess the nutritional and health status of women in normal and diseased conditions	Evaluate
522.6	Prepare an individualized diet chart for the well being of women in a community	Create

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Course Outcomes

Course Name: Food Packaging and Quality Control

Course Code: FN 512

Year: M.Sc. First

Semester: Spring

Faculty Name: Dr. Amrita Narula

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FN 512.1	Describe the basic concept behind packaging of products, types and material used.	Understand
FN 512.2	Explain and use various methods for packaging, handling and distribution of food products.	Understand
FN 512.3	Explain the role of labeling, aesthetics and graphic design in food packaging	Apply
FN 512.4	Describe and use the laws and regulations involved in packaging: SWAA, PFA etc.	Apply
FN 512.5	Discuss how quality assurance plan, records, product and purchase specifications should be made and describe the concept of HACCP.	Understand
FN 512.6	Interpret how to evaluation the product and describe consumer rights.	Apply

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Course Outcomes

Course Name: Basic Principle of Ayurvedic Diet

Course Code: FN 511

Year: 19-20

Semester: Autumn

Faculty Name: Dr. K P Sharma

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

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FN511.1	Students will have the knowledge on the Traditional Indian foods.	Remember
FN 511.2	Students will be able to understand the principles Tri Dosha	Understand
FN 511.3	Students will be able to apply the Ayurvedic knowledge to analyze diseases	Apply
FN 511.4	Students will analyze applications of Ayurvedic Principles in human diseases	Analyse
FN 511.5	Students will also be able to evaluate the basic aspects Tri Dosha in human diseases	Evaluate
FN 511.6	Students will also develop specific skill to remain healthy in life time based on Ayurvedic principle of diet and therapy	Create

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Course Outcomes

Course Name: Therapeutic Nutrition

Course Code: FN232

Year: III

Semester: Spring

Faculty Name: Dr. Kanti Prakash Sharma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FN232.1	Utilize knowledge from biological sciences as a basis for understanding the role of food and nutrients in health and disease processes	Remember
FN232.2	Provide nutrition counseling and education to individuals, groups, and communities	Understand
FN232.3	Perform food management functions in health-care industries	Apply
FN232.4	Analyse nutrition care in collaboration with other health-care providers	Analyse
FN232.5	Evlauate strategies for food access, procurement, preparation, and safety for individuals, families, and communities	Evaluate
FN232.6	Provide culturally competent nutrition services for individuals and communities	Create

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Course Outcomes

Course Name: Bioorganic Chemistry

Course Code: CH 621

Year: II

Semester: Autumn

Faculty Name: Dr. K P Sharma

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
CH 621.1	Remember enzymes name, classification and nomenclatures	Remember
CH 621.2	Understand the fundamentals of enzyme properties, , characteristics and mechanisms	Understand
CH 621.3	Apply biochemical calculation for enzyme kinetics	Apply
CH 621.4	Analyze methods for production, purification, characterization and immobilization of enzymes	Analyse
CH 621.5	Evaluate various application of enzymes for human welfare	Evaluate
CH 621.6	Discover the current and future trends of applying enzyme technology for the commercialization purpose of biotechnological products.	Create

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Course Outcomes

Course Name: Enzymology and Bioprocess Laboratory

Course Code: BT 613

Year: 19-20

Semester: Autumn

Faculty Name: Dr. K P Sharma

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

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
BT 613.1	Role of microbial enzymes in fermentation	Remember
BT 613.2	Understand the fundamentals of microbial enzymes properties, , characteristics and mechanisms	Understand
BT 613.3	Apply microorganism for fermentation	Apply
BT 613.4	Analyze methods for isolation and characterization of microrbes and enzymes and immobilization	Analyse
BT 613.5	Evaluate various application of microorganism or their enzymes industrial and environmental applications	Evaluate
BT 613.6	Create new microbial products or process	Create

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Course Outcomes

Course Name: Zoology Lab - III

Course Code: ZO 222

Year: 2019-20

Semester: Autumn

Faculty Name: Dr. R.S. Chundawat

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
ZO 222.1	Analysis of blood group and hemoglobin level	Understand
ZO 222.2	Analysis of Total WBC count	Understand
ZO 222.3	Analysis of Total RBC count	Understand
ZO 222.4	Analysis of Blood pressure and pulse rate	Understand
ZO 222.5	Analysis of ESR value	Understand
ZO 222.6	Histological study of various organs and tissue.	Understand

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Course Outcomes

Course Name: Developmental Biology

Course Code: ZO 232

Year: 2019-20

Semester: Spring

Faculty Name: Dr. R.S. Chundawat

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
ZO 232.1	explain the anatomy of Male and Female Reproductive system	Understand
ZO 232.2	Determine the mechanism of Male and Female gametes.	Understand
ZO 232.3	explain the process of fertilization	Understand
ZO 232.4	Describe the process of cleavage and blastulation.	Understand
ZO 232.5	Define the process of gastrulation, nurulation, organogenesis.	Understand
ZO 232.6	Analysis of various Birth control mechanism and artificial insemination	Evaluate

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Course Outcomes

Course Name: Developmental Biology Lab

Course Code: ZO 242

Year: 2019-20

Semester: Spring

Faculty Name: Dr. R.S. Chundawat

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
ZO 312.1	Identify structural aspects of testis and ovary	Analyze
ZO 312.2	determine various types of eggs	Analyze
ZO 312.3	Define various developmental stages of chick	Understand
ZO 312.4	Determine various developmental stages of frog	Analyze
ZO 312.5	prepare slides for embryological studies	Create
ZO 312.6	Learn to open egg and observe live developmental stages.	Create

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Course Outcomes

Course Name: Ecology and Economic Biology

Course Code: ZO 311

Year: Academic Year: 2019-20

Semester: Autumn

Faculty Name: Dr. Harish Kumar Dhingra

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

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
ZO 311.1	Learn the concept of Ecological factors, Soil-origin, formation, composition, Shelford's Law	Understand
ZO 311.2	Learn the ethnic groups or tribals of India and Plants used by the tribals	Understand
ZO 311.3	Learn about ecological pyramid, Biogeochemical cycling- carbon, nitrogen and phosphorous cycle	Understand
ZO 311.4	Apply the knowledge for the Application of natural products to certain diseases	Apply
ZO 311.5	Learn the Role of ethnobotany in modern medicine	Understand
ZO 311.6	Learn of Significance, habitat and morphology of the different plants in ethnobotany	Understand

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Course Outcomes

Course Name: Ethology and Evolution

Course Code: ZO 312

Year: 2019-20

Semester: Spring

Faculty Name: Dr. R.S. Chundawat

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
ZO 312.1	Explain the concept of Animal Behaviour.	Understand
ZO 312.2	identify the role of stimuli.	Remember
ZO 312.3	Explain different Aspect of social life, parental care, biological clock	Understand
ZO 312.4	Define the theories of evolution	Understand
ZO 312.5	Define the mechanism of evolution	Understand
ZO 312.6	explain geological time scales and evolution of man	Understand

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Course Outcomes

Course Name: Ecology, Ethology and Evolution Laboratory

Course Code: ZO 332

Year: 2019-20

Semester: Spring

Faculty Name: Dr. R.S. Chundawat

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
ZO 332.1	Determine the process of water and soil testing.	Analyze
ZO 332.2	Analyze the role of fossils in evolution	Analyze
ZO 332.3	Determine different aspect of social life, parental care.	Analyze
ZO 332.4	define the role of stimuli in behavior	Understand
ZO 332.5	Differentiate the analogous and homologues structures	Analyze
ZO 332.6	Explain the methods to study population ecology	Understand

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Course Outcomes

Course Name: Animal Physiology

Course Code: ZO 212

Year: 2019-20

Semester: Autumn

Faculty Name: Dr. R.S. Chundawat

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
ZO 212.1	Explain the anatomy and physiology of Digestive and circulatory systems	Evaluate
ZO 212.2	Explain the anatomy and physiology of Nervous and Excretory systems	Evaluate
ZO 212.3	Explain the anatomy and physiology of Muscle and Heart	Evaluate
ZO 212.4	Explain the anatomy and physiology of Excretory system and blood pressure	Evaluate
ZO 212.5	Explain the endocrine system and mechanism of hormone action	Evaluate
ZO 212.6	Explain the anatomy and mechanism of respiratory system.	Evaluate

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Course Outcomes

Course Name: Animal Diversity Lab – II

Course Code: ZO 142

Year: 2019-20

Semester: Spring

Faculty Name: Dr. R.S. Chundawat

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
ZO 312.1	Identify structural aspects of Bones	Analyze
ZO 312.2	Identify comparative anatomy of chordates	Analyze
ZO 312.3	Identify habit and habitat of chordates	Analyze
ZO 312.4	Determine comparative aspects of arterial system	Understand
ZO 312.5	Identify comparative aspects of nervous system	Analyze
ZO 312.6	Prepare slides of chordate material	Create

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Course Outcomes

Course Name: **Animal Diversity-II**

Course Code: ZO 132

Year: 2019-20

Semester: Spring

Faculty Name: Dr. R.S. Chundawat

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
ZO 132.1	define the meaning of Chordata.	Understand
ZO 132.2	explain the mechanism of systems	Understand
ZO 132.3	develop the understanding of Evolution of systems.	Create
ZO 132.4	develop the understanding of Accessory Respiratory and poison apparatus	Create
ZO 132.5	define the aspect of parental care	Create
ZO 132.6	explain the process of Human evolution.	Understand

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Course Outcomes

Course Name: Zoology Lab - I

Course Code: ZO 121

Year: 2019-20

Semester: Autumn

Faculty Name: Dr. R.S. Chundawat

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
ZO 121.1	Explain different Specimens of Invertebrate.	Understand
ZO 121.2	Explain Connecting links	Understand
ZO 121.3	Preparation of permanent slide of given materials	Understand
ZO 121.4	Study of nervous systems	Understand
ZO 121.5	Study of Circulatory systems	Understand
ZO 121.6	Study of digestive systems	Understand

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Course Outcomes

Course Name: **Animal Diversity-I**

Course Code: ZO 111

Year: 2019-20

Semester: Autumn

Faculty Name: Dr. R.S. Chundawat

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
ZO 111.1	define the meaning of Invertebrate.	Understand
ZO 111.2	explain the mechanism of systems	Understand
ZO 111.3	develop the understanding of Invertebrate systems.	Create
ZO 111.4	develop the understanding of Water canal system and water vascular system	Create
ZO 111.5	define the aspect of Larval forms and mouth parts in insects	Create
ZO 111.6	explain the concept of parasitism and adaptations.	Understand

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Course Outcomes

Course Name: Medical microbiology laboratory

Course Code: MB 361

Year: 2019-2020

Semester: Autumn

Faculty Name: Dr. Amrita Narula

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MB361.1	Select the microbes from soil, water, skin, mouth cavity and other sources	Analyze
MB361.2	Calculate the TDS and pH of water and soil sample	Apply
MB361.3	Analyze the Antibiotic sensitivity and resistance activity of bacteria	Analyze
MB361.4	Compare the MIC of given antibiotic (streptomycin) by observing its effect on bacterial culture	Evaluate
MB361.5	Determine the flora of human blood sample and determining its morphological characteristics	Apply
MB361.6	Evaluate the flora of skin and determining its morphological characteristics	Evaluate

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Course Outcomes

Course Name: Medical Microbiology

Course Code: MB 351

Year: 2019-2020

Semester: Autumn

Faculty Name: Dr. Amrita Narula

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MB351.1	Describe the normal micro-flora of the human body	Remember
MB351.2	Describe the infection process and strategies adopted by pathogens to evade immune system	Understand
MB351.3	Explain the pathogenesis, epidemiology of bacterial, fungal, viral and protozoan diseases	Understand
MB351.4	Describe the laboratory diagnosis and treatment methods for bacterial, fungal, viral and protozoan diseases	Understand
MB351.5	Assess treatment strategies including the appropriate use of antimicrobial agents and common mechanisms of antimicrobial action and resistance.	Evaluate
MB351.6	Recognize and diagnose common infectious diseases from the clinical presentation and associated microbiology.	Apply

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Course Outcomes

Course Name: General Microbiology Laboratory

Course Code: MB 341

Year: 19-20

Semester: Spring

Faculty Name: Dr. Amrita Narula

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

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MB341.1	Remember microbiological nutrient medium name and components for microbe cultivation	Remember
MB341.2	Understand the role of nutrient medium components and technique of aseptic cultivation	Understand
MB341.3	Apply isolation methods to isolate novel and innovative micoroganims	Apply
MB341.4	Analyze the difference in medium components for microbial cultivation	Analyse
MB341.5	Evaluate the effect of environmental parameters on microbial growth	Evaluate
MB341.6	Create new methods of microbial use for agriculture, health and industrial sectors	Create

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Course Outcomes

Course Name: Microbiology

Course Code: MB 331

Year: 19-20

Semester: Spring

Faculty Name: Dr Amrita Narula

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

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MB331.1	Remember the work and contribution of microbiologist	Remember
MB331.2	Understand the fundamentals of microorganism growth and physiology and method of studying the microorganism	Understand
MB331.3	Apply principles of microbial physiology for various application in environment, agricultural and health sector	Apply
MB331.4	Analyze microbial growth in diverse environment	Analyse
MB331.5	Evaluate the potential of microbes in Antibiotic, Bio-fertilizer/Pesticides	Evaluate
MB331.6	Develop Bio-fertilizer and Bio-pesticides	Create

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Course Outcomes

Course Name: **Immunology Laboratory**

Course Code: **MB 321**

Year: Spring 2019-20

Semester: Spring

Faculty Name:

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MB 321.1	Identify structural aspects of Lymph nodes	Analyze
MB 321.2	Identify tissues related to immune system	Analyze
MB 321.3	Identify presence of antigen with help of antibody	Analyze
MB 321.4	Determine antigenicity of compound	Understand
MB 321.5	ELISA	Analyze
MB 321.6	Prepare slides tissue to location presence of antigen	Create

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Course Outcomes

Course Name: Immunology

Course Code: MB 232

Year: Spring 2019-20

Semester: Spring

Faculty Name:

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
MB 232.1	define the meaning of Immunology.	Understand
MB 232.2	explain the mechanism of Immune system	Understand
MB 232.3	develop the understanding of Immune system.	Create
MB 232.4	develop the understanding of antigen, antibody and epitopes	Create
MB 232.5	define the aspect of cell signaling in Immune system	Create
MB 232.6	explain the process of monoclonal antibody generation.	Understand

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Course Outcomes

Course Name: Basics of Human Physiology

Course Code: FN 521

Year: 2019-20

Semester: Autumn

Faculty Name: Dr. R.S. Chundawat

CO Number	Course Outcome statement At the completion of the course, student will be able to	Taxonomy Level
FN 521.1	Basic understanding of Cell, cell organelle and tissue	Analyze
FN 521.2	Explain the anatomy and physiology of endocrine, Digestive and circulatory systems	Analyze
FN 521.3	Explain the anatomy and physiology of Nervous and Excretory systems	Analyze
FN 521.4	Explain the anatomy and physiology of Muscle and Heart	Analyze
FN 521.5	Explain the anatomy and physiology of Reproductive and Excretory systems	Analyze
FN 521.6	Understanding the problems related to physiological disturbance	Understand

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