



## PT. DEVI PRASAD CHOUBEY GOVT. COLLEGE SAJA

District - Bemetara (C.G.)

Registered Under Section 2(F) & 12(B) of UGC Act

Affiliated to Hemchand Yadav University ,Durg

email- govtcollegesaja@gmail.com, Website- www.govtcollegesaja.in

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### **PROGRAMME OUTCOMES, PROGRAMME SPECIFIC OUTCOMES AND COURSE OUTCOMES**

#### **B.Sc. Home Science – 3 years Undergraduate programme**

##### **Programme Outcomes (PO)**

- PO1.** The students will become well equipped with scientific & technical education of theoretical and practical knowledge of interdisciplinary subjects.
- PO2.** The students will be able to improve their life quality through all round personality development by learning essential life skills.
- PO3.** The students will be able to perform in varied professional careers leading to their socio-economic development through financial upliftment and improvement in socio-economic status.
- PO4.** The students will be able to think critically and take informed decisions after identifying the accuracy and validity of their assumptions and ideas from intellectual, organizational, and personal perspectives.
- PO5.** The students will be able to communicate effectively through speaking, reading, writing and listening clearly in one Indian language and thereby express themselves to the world by connecting with different ideas, books, people, media and technology.
- PO6.** The students will be able to interact socially and stimulate views, reconcile disagreements and help reach consensual conclusions.
- PO7.** The students will be able to demonstrate compassionate social concern and act with an cognizant awareness of issues to contribute in civic life by volunteering impartially towards national development and thereby deliver effective citizenship.
- PO8.** The students will be able to ethically recognize different value systems, understand the moral dimensions of individual decisions and accept responsibility for them.
- PO9.** The students will be able to recognize the issues of environmental perspectives and appreciate sustainable development for long term environmental sustainability.
- PO10.** The students will be able to engage themselves in life-long self-determining and learning in the comprehensive background of socio-technological changes for continued self-directed and life-long learning.
- PO11.** The undergraduate programme in Home Science is aimed at providing the students necessary inputs so as to set forth the task of bringing about new and innovative ideas/concepts so that the formulated model curricula in Home Science becomes in tune with the changing scenario and incorporate new and rapid advancements and multi-disciplinary skills, societal relevance, global interface, self-sustaining and supportive learning.

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**P012.**It is desired that undergraduate programme in Home Science besides teaching the basic concepts of Home Science should in addition have broader vision for students so that the students therefore be exposed to societal interface of Home Science and the role of Home Science in the development of food, nutritional, textile and human development sciences & technologies.

Programme Specific Outcomes (PSO)

**PSO1.** The students of undergraduate programme in Home Science will be able to cultivate a scientific temper towards Fundamentals of Food and Nutrition. The students will be able to develop their scientific & technical acumen for food science & nutrition; food chemistry & food preservation.

**PSO2.** The students of undergraduate programme in Home Science will be able to cultivate a scientific temper towards Resource Management, Ecology & Environment.

**PSO3.** The students will be able to develop their scientific & technical acumen for Human Development & Family Dynamics. The students will be able to progress the scientific approach & understanding related to life span development; early childhood education & care; human development & family dynamics.

**PSO4.** The students will be able to grow a scientific & technical acumen for Textiles & Clothing, textile & laundry science; apparel & cloth designing, tailoring, embroidery & printing, art & design.

**PSO5.** The students of undergraduate programme in Home Science will be able to cultivate a scientific temper towards Community Development Perspective and Approaches Socio Economic Analysis of Communities.

**PSO6.** The students of undergraduate programme in Home Science will be able to cultivate a scientific temper towards Personal Empowerment & Computer Basic. The students will be able to develop a systematic & methodical approach aimed at communication process, computer basics and personal empowerment.

**PSO7.** The students will be able to develop their scientific & technical acumen for Nutritional Management in Health and Diseases. The students will be able to advance their systematic & scientific approach towards community nutrition & development; nutritional management and consumer economics.

**PSO8.** The students will be able to develop their scientific & technical acumen for Textile and Laundry Science. The students will be able to grow a scientific & technical acumen for Textiles & Clothing, textile & laundry science; apparel & cloth designing, tailoring, embroidery & printing, art & design.

**PSO9.** The students will be able to develop their scientific & technical acumen for Community Nutrition and Applied life Sciences. The students will be able to advance their systematic & scientific approach towards community nutrition & development; nutritional management and consumer economics.

**PSO10.** The students of undergraduate programme in Home Science will be able to cultivate a scientific temper towards Communication Process. The students will be able to develop a systematic & methodical approach aimed at communication process, computer basics and personal empowerment.

**PSO11.** The students of undergraduate programme in Home Science will be able to cultivate a scientific temper towards Life Span Development. The students will be able to progress the scientific approach & understanding related to life span development; early childhood education & care; human development & family dynamics.

**PSO12.** The students of undergraduate programme in Home Science will be able to cultivate a scientific temper towards Consumer Economics. The students will be able to advance their systematic & scientific

approach towards community nutrition & development; nutritional management and consumer economics.

**PS013.** The students will be able to develop their scientific & technical acumen for Nutritional Biochemistry. The students will be able to improve their scientific & technical acumen in human physiology, nutritional biochemistry, first aid & nursing.

**PS014.** The students will be able to develop their scientific & technical acumen for Food Preservation. The students will be able to develop their scientific & technical acumen for food science & nutrition; food chemistry & food preservation.

**PS015.** The students will be able to develop their scientific & technical acumen for Early Childhood Education. The students will be able to progress the scientific approach & understanding related to life span development; early childhood education & care; human development & family dynamics.

**PS016.** The students of undergraduate programme in Home Science will be able to cultivate a scientific temper towards Extension Education. The students will be able to grow a logical, scientific & meticulous methodology for extension education and nursery school pedagogy.

**PS017.** The students of undergraduate programme in Home Science will be able to cultivate a scientific temper towards Foundation of Art and Design. The students will be able to advance the aesthetic and organized methods for home décor production & interior decoration.

**PS018.** The students will be able to develop their scientific & technical acumen for Apparel Making. The students will be able to grow a scientific & technical acumen for Textiles & Clothing, textile & laundry science; apparel & cloth designing, tailoring, embroidery & printing, art & design.

### **Course Outcomes (CO)**

#### **Course 1: Fundamentals of Food and Nutrition**

**CO1.** This course will enable the student to understand the functions of food and the role of various nutrients, their requirements and the effects of deficiency and excess. Learn about the structure, composition, nutritional contribution and selection of different foodstuffs; be familiar with the different methods of cooking, their advantages and disadvantages, Develop an ability to improve the nutritional-quality of food.

**CO2.** The students after completing this course will be able to plan improvements in cooking & preservation methods and nutritional qualities of various foods & foodstuffs.

**CO3.** The students will be able to plan balanced diets & meals as per RDA. The students will be able to carry out dietary management for common ailments.

#### **Course 2: Introduction to Resource Management, Ecology & Environment**

**CO1.** The students after completing this course will be able to generate consciousness and management plans for natural resources, physical environment & its components.

**CO2.** The students after completing this course will be able to draw sustainable solutions for ecological issues and reducing impact of human activities on the environment.

**CO3.** The students after completing this course will be able to deal with the management of resources in the family with particular reference to mobilizing all the resources for achieving the family goals. It also deals with the factors motivating management and management applied to specific resources. The course intends to create awareness, appreciation and understanding of environment. The major environmental issues and problems are to be critically analyzed for inculcating environmental consciousness among the learners and to help them take individual/ household/ community level



decision for making the physical environment conducive for family living. The course content has to be taught at an elementary level.

**C04.** The students will be able to understand management in the family as well as the other systems. The students after completing this course will be able to recognize the importance of wise use of resources in order to achieve goals. The students will be able to understand physical environment and its components and the major issues. The students will be able to understand the impact of human activities on environment and the actions needed for checking environmental threats.

### **Course 3: Introduction to Human Development & Family Dynamics**

**C01.** The students after completing this course will be able to plan & predict individual's societal & cultural development, roles & relationships under Indian marriages & marital accords.

**C02.** The students after completing this course will be able to chalk out management plans for family systems, family welfare measures and family distress & crisis and social systems.

**C03.** The students after completing this course will be able to acquire knowledge and insights about the dynamics of contemporary marriage and family systems in India.

**C04.** The students will become acquainted with the concept, goals and areas of adjustment, relationship within the family.

**C05.** The students will become aware of the changing roles and relationships with the family.

**C06.** The students will understand the dynamics of families in distress and crisis.

**C07.** The students will understand human development-concept, dimensions and interrelations

**C08.** The students will understand social and cross-culture contexts in human development.

**C09.** The students will understand the interventions in the field of human development

### **Course 4: Introduction to Textile & Clothing**

**C01.** The students after completing this course will be able to make fabric choices, construct clothing and predict textile performances.

**C02.** The students after completing this course will be able to improve textile finishing, textile designing, textile printing, textile coloring & dyeing and designing of various embroideries.

**C03.** The students will become acquainted with proper notion regarding choice of fabrics.

**C04.** The students will develop skills in clothing construction.

**C05.** The students will become acquainted with different textiles and their performances.

**C06.** The students will become acquainted with knowledge on different textiles finishes.

### **Course 5: Community Development Perspective and Approaches Socio Economic Analysis of Communities**

**C01.** The students after completing this course will be able to plan & improve community development and individual's role in community development.

- C02.** The students after completing this course will be able to predict the role of non-Govt. organizations, role of socio-economic structures, role of rural & urban community systems and developmental changes in society.
- C03.** The students will become acquainted with the approaches to development.
- C04.** The students will be enabled to develop faith in the capacity of the people, to take responsibility for their own development.
- C05.** The students will understand the existing support structures for development efforts.
- C06.** The students will understand the role of non Govt. organizations in community development.
- C07.** The students will understand the socio - economic structures and systems that make up the rural and urban communities.
- C08.** The students will understand the meaning of social change through development plans and programs in the context of the exiting socio-economic structures and systems.
- C09.** The students will understand own role in the development process.

#### **Course 6: Personal Empowerment and Computer Basics**

- C01.** The students after completing this course will be able to make self-improvements for personal / professional / women empowerment and life quality improvement.
- C02.** The students after completing this course will be able to plan for national development and empowerment as well as utilize computer education for information and research.
- C03.** The student will become aware of the need, competencies and skills to be developed for empowerment and be motivated for self-improvement/self-enhancement.
- C04.** The student will become aware of the role of empowerment of women from the perspectives of personal and national development.
- C05.** The student will become aware of the interdisciplinarity of Home Science education and its potential for personal and professional enhancement.
- C06.** The student will become sensitized to some pertinent contemporary issues that affect the quality of life of individuals, families and community.
- C07.** The student will know the basics of computers and become enabled to use computers for education, information and research.

#### **Course 7: Nutritional Management in Health & Diseases**

- C01.** The students after completing this course will be able to conceptualize an adequate diet and the importance of meal planning.
- C02.** The students after completing this course will be able to identify the factors affecting the nutrient needs during a life cycle and the RDA for various age groups.
- C03.** The students after completing this course will be able to perform dietary management for common ailments.

### **Course 8: Textile and Laundry Science**

- C01.** The students after completing this course will be able to make fabric choices, construct clothing and predict textile performances.
- C02.** The students after completing this course will be able to improve textile finishing, textile designing, textile printing, textile coloring & dyeing and designing of various embroideries.

### **Course 9: Community Nutrition and Applied Life Sciences**

- C01.** The students after completing this course will be able to plan improvements in cooking & preservation methods and nutritional qualities of various foods & foodstuffs.
- C02.** The students will be able to plan balanced diets & meals as per RDA.
- C03.** The students will be able to carry out dietary management for common ailments.

### **Course 10: Communication Process in Development**

- C01.** The students after completing this course will be able to ascertain the process of communication in development work.
- C02.** The students after completing this course will be able to develop skills in the use of communication methods and media.
- C03.** The students will become responsible and sensitive to the interests and needs of the people and the power of the media and communication methods in catering to these needs and interests.

### **Course 11: Life Span Development, Methods and Material for Young Children**

- C01.** The students after completing this course will become acquainted with development stages from birth to old age.
- C02.** The students after completing this course will be able to develop awareness of important aspects of development during the whole life span.
- C03.** The students after completing this course will be able to realize the requirements of infant and toddler and develop skills to create play material and designing learning experience.
- C04.** The students after completing this course will be able to ascertain the significance of various creativities and identify teacher's role in implementing them.

### **Course 12: Consumer Economics**

- C01.** The students after completing this course will be able to identify and deduce consumption economics.
- C02.** The students after completing this course will be able to understand the measurement of living standards.
- C03.** The students after completing this course will be able to understand the measurement of consumer income.
- C04.** The students after completing this course will be able to identify the consumer markets.
- C05.** The students after completing this course will be able to identify and measure adult rationing.

**C06.** The students after completing this course will be able to identify and deduce consumer problems and consumer protection laws.

### **Course 13: Nutritional Biochemistry**

**C01.** The students after completing this course will be able to understand Nutritional Biochemistry, its definition, objectives, scope and interrelationship between Biochemistry and other biological sciences.

**C02.** The students after completing this course will be able to understand about Carbohydrates, its definition, classification, functions and properties of Monosaccharides - Glucose, Fructose, Galactose; Disaccharides - Maltose, Lactose, Sucrose; Polysaccharides - Dextrin, Starch, Glycogen.

**C03.** The students after completing this course will be able to understand various metabolic pathways like Glycolysis, Krebs' Cycle, Gluconeogenesis, Glycogenesis, Glycogenolysis, Citric acid Cycle and Blood sugar regulation.

**C04.** The students after completing this course will be able to understand about Lipids, its definition, composition, importance and classification and also about Fatty acids, its functions, properties and significance of Acid value, Iodine value and saponification value and also chemistry and function of Phospholipids, Glycolipids & sterols and Lipid Metabolism - Beta Oxidation.

**C05.** The students after completing this course will be able to understand about various aspects of transports within the body like Passive diffusion, Facilitated diffusion, Active transport.

**C06.** The students after completing this course will be able to understand about Proteins, its definition, composition, function, and classification and also about Amino acids- Essential & Non-essential and Protein Metabolism - Urea cycle, Nitrogen balance, and Amino acid pool.

**C07.** The students after completing this course will be able to understand about Enzymes, its definition, properties, classification, Mode of action of enzymes, factors affecting velocity of enzyme catalyzed reactions, coenzymes.

**C08.** The students after completing this course will be able to understand about Hormones especially biological roles of hormones of Pituitary, Adrenal cortex and medulla, Thyroid, Parathyroid, Pancreas, Sex glands and also know about Urine - Formation and Composition.

**C09.** The students after completing this course will be able to understand about Energy, its definition, Unit, calorimeter, caloric value of foods, BMR, RQ, SDA of Foods.

**C10.** The students after completing this course will be able to understand about Nucleic Acid and Nucleoproteins – Chemistry, composition, structure, and functions.

### **Course 14: Food Preservation**

**C01.** The students after completing this course will be able to understand about Food and its preservation, Home and community level including commercial operations, Principles of food Preservation & causes of spoilage of food.

**C02.** The students after completing this course will be able to understand about Fresh Food Storage Principles, plant products Storage, animal products storage, Effect of Storage Condition on quality, Canning - Principles and methodology influence of canning on food quality, Storage of canned foods.

**C03.** The students after completing this course will be able to understand about Pasteurization and its effect on food quality, Storage of pasteurized foods.

- C04.** The students after completing this course will be able to understand about Drying & Dehydration Methods used and effect on food quality, Types of driers, Storage and deterioration of dehydrated food products.
- C05.** The students after completing this course will be able to understand about Use of low temperature, Refrigeration and freezing methods, principles and applications, Preparation of foods for freezing, influence of low temperature on food components and structure, Shelf-life of frozen foods.
- C06.** The students after completing this course will be able to understand about Pickling, Pickles, chutneys, ketchups, sauces and Fermentation - Types, products, methods, uses;
- C07.** The students after completing this course will be able to understand about Establishment of a small scale industry / cottage industry.
- C08.** The students after completing this course will be able to understand about Chemical Preservatives, Preparation of Fruit - Juices, Squashes, Syrups, Cordials, Jam, Jelly.
- C09.** The students after completing this course will be able to understand about High Acid & High Sugar Products – common defects, Preservation of crystalized and glazed fruits.
- C010.** The students after completing this course will be able to understand about Nutritional Implications of food processing, Causes for loss of vitamins and minerals, Enrichment, Restoration and Fortification.

#### **Course 15: Early Childhood Education**

- C01.** The students after completing this course will be able to understand the importance of early childhood care and significance of intervention programmes for early child development.
- C02.** The students after completing this course will be able to understand the major theoretical approaches and implication for early child development.
- C03.** The students after completing this course will become acquainted with current policies and programs in ECCE.
- C04.** The students after completing this course will be able to understand the meaning of curriculum and various components to be included in the daily programmes to promote all round development of children.
- C05.** The students after completing this course will be able to recognize the role of play in children's development.
- C06.** The students after completing this course will be able to understand the goals, principles, factors and approaches used in programme planning.
- C07.** The students after completing this course will be able to recognize the advantages of project method and learn to use integrated approach in the development of daily programme.

#### **Course 16: Extension Education**

- C01.** The students after completing this course will be able to recognize the Concept of Education.
- C02.** The students after completing this course will be able to understand the Meaning of Extension Education, Origin of Extension Education and Extension Education Process.
- C03.** The students after completing this course will be able to recognize the Environment for learning.



**C04.** The students after completing this course will be able to recognize the role of educator, role of the people participants and Communication Process.

### **Course 17: Foundation of Art & Design**

**C01.** The students after completing this course will be able to understand the foundation of Art & Design, Definition and types:- Structural and Decorative

**C02.** The students after completing this course will be able to recognize the Elements of Design :- Line, Size, Form, Structure, Space, Pattern, Shape, Light - characteristics and classification, Study of Colour - classification, dimensions, colour schemes and effect.

**C03.** The students after completing this course will be able to understand the Principles of design - definition and their characteristics and types: - Balance, Harmony, Scale, Proportion, Rhythm and Emphasis.

**C04.** The students after completing this course will be able to recognize Indian, regional, traditional and contemporary arts and their uses.

### **Course 18: Apparel Making & Fashion Designing**

**C01.** The students after completing this course will be able to understand the Importance of Clothing and Sociological & psychological aspects of clothing.

**C02.** The students after completing this course will be able to recognize the Fabrics to be considered while selecting of fabric for different garment, Estimation of material required for different garments (cloth estimation), Study of fabric finishes - Meaning, objective facilities, General & special.

**C03.** The students after completing this course will be able to understand the Fashion trends in India & its changes from time to time; Fashion Theories - Body measurements - Tailoring tools & Equipments - Methods of taking body measurements - For different garments - Importance - Pattern making techniques - Flat pattern - Drafting - Draping and Fashion Illustrations.

**C04.** The students after completing this course will be able to understand the Fundamentals of Embroidery - Techniques, design colour, uses of different combination - threads; - embroidery stick - Types - Types of threads, needles used for different fabrics.

**C05.** The students after completing this course will be able to recognize the traditional Embroideries of India: Kasida of Kashmiri, Kantha of Bengal, Chichenkari of Lucknow, Kutch & Kathiawar, Kasuti of Karnataka, Phulkari of Punjab, Gold & Silver (Zari work) of Banaras.

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## **B.Com.- 3 years Undergraduate programme**

### **Programme Outcomes (PO)**

**PO1.** The students after the completion of this programme will be enabled to overcome the challenges and cash in the opportunities in the field of commerce.

**PO2.** The students after the completion of this programme will become well prepared to take up various professional assignments, engagements and jobs in medium to large scale business establishments, industries, commercial set-ups and other public/private commercial sectors like banking, stock-exchange, insurance, NBFCs as accountants, investment bankers, business analysts, finance officers, business / financial advisors etc.

**P03.** The students will be able to think critically and take informed decisions after identifying the accuracy and validity of their assumptions and ideas from intellectual, organizational, and personal perspectives.

**P04.** The students will be able to communicate effectively through speaking, reading, writing and listening clearly in one Indian language and thereby express themselves to the world by connecting with different ideas, books, people, media and technology.

**P05.** The students will be able to interact socially and stimulate views, reconcile disagreements and help reach consensual conclusions.

**P06.** The students will be able to demonstrate compassionate social concern and act with cognizant awareness of issues to contribute in civic life by volunteering impartially towards national development and thereby deliver effective citizenship.

**P07.** The students will be able to ethically recognize different value systems, understand the moral dimensions of individual decisions and accept responsibility for them.

**P08.** The students will be able to recognize the issues of environmental perspectives and appreciate sustainable development for long term environmental sustainability.

**P09.** The students will be able to engage themselves in life-long self-determining and learning in the comprehensive background of socio-technological changes for continued self-directed and life-long learning.

### **Programme Specific Outcomes (PSO)**

**PSO1.** The students after the completion of this programme will become well versed with financial accounting.

**PSO2.** The students after the completion of this programme will become well versed with business communication.

**PSO3.** The students after the completion of this programme will be able to understand business mathematics.

**PSO4.** The students after the completion of this programme will be able to understand business regulatory framework.

**PSO5.** The students after the completion of this programme will be able to identify a business environment.

**PSO6.** The students after the completion of this programme will be able to understand the economics of a business.

**PSO7.** The students after the completion of this programme will be able to understand the essentials of corporate accounting.

**PSO8.** The students after the completion of this programme will be able to understand the essentials of company law.

**PSO9.** The students after the completion of this programme will be able to understand the essentials of cost accounting.

**PS010.** The students after the completion of this programme will be able to understand the principles of business management.

**PS011.** The students after the completion of this programme will be able to understand the essentials of business statistics.

**PS012.** The students after the completion of this programme will be able to understand the fundamentals of entrepreneurship.

**PS013.** The students after the completion of this programme will be able to understand the principles of direct taxation – income tax.

**PS014.** The students after the completion of this programme will be able to recognize the procedures of auditing.

**PS015.** The students after the completion of this programme will be able to understand the essentials, principles and procedures of indirect taxation and GST.

**PS016.** The students after the completion of this programme will be able to understand the essentials of management accounting.

**PS017.** The students after the completion of this programme will be able to understand the fundamentals of insurance.

**PS018.** The students after the completion of this programme will be able to understand the essentials of banking and money management.

### **Course Outcomes (CO)**

#### **Course 1: Financial Accounting**

**CO1.** The students after the completion of this course will be able to impart the knowledge of various accounting concepts.

**CO2.** The students after the completion of this course will be able to instill the knowledge about accounting procedures, methods and techniques & develop skills for computerized Accounting.

#### **Course 2: Business Communication**

**CO1.** The students after the completion of this course will be able to understand the concept, process and importance of communication.

**CO2.** The students after the completion of this course will be able to develop awareness regarding new trends in business communication.

**CO3.** The students after the completion of this course will be able to recognize various media of communication.

#### **Course 3: Business Mathematics**

**CO1.** The students after the completion of this course will be able to prepare for competitive exams.

**CO2.** The students after the completion of this course will be able to improve their calculating power & skills.

**C03.** The students after the completion of this course will be able to understand the concept of simple interest, compound interest & concept of EMI.

#### **Course 4: Business Regulatory Framework**

**C01.** The students after the completion of this course will be acquainted with the basic concepts, terms & Provisions of mercantile & Business Laws.

**C02.** The students after the completion of this course will be able to develop the awareness regarding laws affecting business, trade & commerce.

#### **Course 5: Business Environment**

**C01.** The students after the completion of this course will become aware about the Business Environment.

**C02.** The students after the completion of this course will be able to create entrepreneurial awareness.

**C03.** The students after the completion of this course will be able to motivate themselves for taking up entrepreneurship as career.

#### **Course 6: Business Economics**

**C01.** The students after the completion of this course will be able to use various economic theories.

**C02.** The students after the completion of this course will be able to apply economic reasoning to problems of business.

**C03.** The students after the completion of this course will be able to understand the basic micro economic concepts.

#### **Course 7: Corporate Accounting**

**C01.** The students after the completion of this course will be enabled to develop awareness about corporate accounting with the provisions of companies Act & Accounting as per Indian Accounting standards.

**C02.** The students after the completion of this course will be enabled to develop conceptual aspect of corporate accounting & develop skills about accounting standards.

#### **Course 8: Company Law**

**C01.** The students after the completion of this course will be able to impart the knowledge of fundamentals of company law.

**C02.** The students after the completion of this course will be able to update the knowledge of provisions of the companies Act of 2013.

#### **Course 9: Cost Accounting**

**C01.** The students after the completion of this course will be enabled with the knowledge of Basic cost concepts, Elements of cost, Ascertainment of materials & costing.

**C02.** The students after the completion of this course will be able to understand various methods of costing & their applications.

### **Course 10: Principal of Business Management**

**C01.** The students after the completion of this course will be able to understand about business management concept.

**C02.** The students after the completion of this course will be able to understand about various functions of business management.

### **Course 11: Business Statistics**

**C01.** The students after the completion of this course will be able to understand & apply the concepts of mean, mode & median.

**C02.** The students after the completion of this course will be able to apply various methods of sampling & probability measurement.

### **Course 12: Fundamentals of Entrepreneurship**

**C01.** The students after the completion of this course will be able to create entrepreneurial temper.

**C02.** The students after the completion of this course will be able to take up the cause of entrepreneurship.

### **Course 13: Income Tax**

**C01.** The students after the completion of this course will be able to understand the basic concept & acquire knowledge about computation of Income.

**C02.** The students after the completion of this course will be enabled to submit Income Tax Returns, Advance Tax & Tax deducted at source

**C03.** The students after the completion of this course will be able to identify the procedures of Tax collection authorities under Income Tax Act.

### **Course 14: Auditing**

**C01.** The students after the completion of this course will be able to acquaint themselves about concept & principles of Auditing, Audit process, Assurance standards & Tax Audit and Audit of computerized system.

**C02.** The students after the completion of this course will be able to prepare Audit Reports.

### **Course 15: Indirect Taxes with GST**

**C01.** The students after the completion of this course will be able to understand and apply the concept of GST.

**C02.** The students after the completion of this course will be able to understand and apply the concept of Excise duty, CENVAT.

**C03.** The students after the completion of this course will be able to understand and apply the knowledge of Registration under GST including its procedures & the liable person for GST registration.

### **Course 16: Management Accounting**

**C01.** The students after the completion of this course will be able to understand and apply the basic knowledge of management accounting & its relevance in a business organization.

**C02.** The students after the completion of this course will be able to understand and apply managerial behavior & control structures prevalent under varied business environment.

### **Course 17: Fundamental of Insurance**

**C01.** The students after the completion of this course will be able to understand and apply the fundamentals of insurance.

**C02.** The students after the completion of this course will be able to understand and apply the knowledge of life Insurance, Fire Insurance & Marine Insurance.

**C03.** The students after the completion of this course will be able to understand and apply the functions of Insurance agent.

### **Course 18: Money and Banking**

**C01.** The students after the completion of this course will be able to understand and apply the fundamentals of banking.

**C02.** The students after the completion of this course will be able to understand and apply the banking business & practices.

**C03.** The students after the completion of this course will be able to understand and apply the new concepts introduced in the banking system.

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## **B.Sc. (Maths Group) – 3 years Undergraduate programme**

### **Programme Outcomes (PO)**

**P01.** The undergraduate programme in Mathematics / Physics / Chemistry is aimed at providing the students necessary inputs so as to set forth the task of bringing about new and innovative ideas/concepts so that the formulated model curricula in Mathematics / Physics / Chemistry becomes in tune with the changing scenario and incorporate new and rapid advancements and multi-disciplinary skills, societal relevance, global interface, self-sustaining and supportive learning.

**P02.** It is desired that undergraduate programme in Mathematics / Physics / Chemistry besides teaching the basic concepts of Mathematics / Physics / Chemistry should in addition have broader vision for students so that the students therefore be exposed to societal interface of Mathematics / Physics / Chemistry and the role of Mathematics / Physics / Chemistry in the development of physical, chemical and mathematical sciences & technologies.

**P03.** The students will be able to think critically and take informed decisions after identifying the accuracy and validity of their assumptions and ideas from intellectual, organizational, and personal perspectives.

**P04.** The students will be able to communicate effectively through speaking, reading, writing and listening clearly in one Indian language and thereby express themselves to the world by connecting with different ideas, books, people, media and technology.

**P05.** The students will be able to interact socially and stimulate views, reconcile disagreements and help reach consensual conclusions.



**P06.** The students will be able to demonstrate compassionate social concern and act with cognizant awareness of issues to contribute in civic life by volunteering impartially towards national development and thereby deliver effective citizenship.

**P07.** The students will be able to ethically recognize different value systems, understand the moral dimensions of individual decisions and accept responsibility for them.

**P08.** The students will be able to recognize the issues of environmental perspectives and appreciate sustainable development for long term environmental sustainability.

**P09.** The students will be able to engage themselves in life-long self-determining and learning in the comprehensive background of socio-technological changes for continued self-directed and life-long learning.

### **Programme Specific Outcomes (PSO)**

**PSO1.** The students after the completion of this programme will be able to understand and apply the fundamentals of Mechanics, Oscillation and Properties of Matter.

**PSO2.** The students after the completion of this programme will be able to understand and apply the fundamentals of Electricity, Magnetism and Electromagnetic Theory.

**PSO3.** The students after the completion of this programme will be able to understand and apply the fundamentals of Thermodynamics, Kinetic Theory and Statistical Physics.

**PSO4.** The students after the completion of this programme will be able to understand and apply the fundamentals of Wave, Acoustics and Optics.

**PSO5.** The students after the completion of this programme will be able to understand and apply the fundamentals of Relativity, Quantum Mechanics, Atomic, Molecular and Nuclear Physics.

**PSO6.** The students after the completion of this programme will be able to understand and apply the fundamentals of Solid State Physics, Solid State Devices and Electronics.

**PSO7.** The students after the completion of this programme will be able to understand and apply the fundamentals of Algebra & Trigonometry.

**PSO8.** The students after the completion of this programme will be able to understand and apply the fundamentals of Calculus.

**PSO9.** The students after the completion of this programme will be able to understand and apply the fundamentals of Vector Analysis & Geometry.

**PSO10.** The students after the completion of this programme will be able to understand and apply the fundamentals of Advanced Calculus.

**PSO11.** The students after the completion of this programme will be able to understand and apply the fundamentals of Differential Equations.

**PSO12.** The students after the completion of this programme will be able to understand and apply the fundamentals of Mechanics.

**PSO13.** The students after the completion of this programme will be able to understand and apply the fundamentals of Analysis.

**PS014.**The students after the completion of this programme will be able to understand and apply the fundamentals of Abstract Algebra.

**PS015.**The students after the completion of this programme will be able to understand and apply the fundamentals of Advanced Discrete Mathematics.

**PS016.**The students after the completion of this programme will be able to understand and apply the fundamentals of Inorganic Chemistry.

**PS017.**The students after the completion of this programme will be able to understand and apply the fundamentals of Organic Chemistry.

**PS018.**The students after the completion of this programme will be able to understand and apply the fundamentals of Physical Chemistry.

### **Course Outcomes (CO)**

#### **Course 1: Mechanics, Oscillation and Properties of Matter**

**CO1.** The students after the completion of this course will be able to understand laws of motion and their application to various dynamical situations, notion of inertial frames and concept of Galilean invariance. Learn the concept of conservation of energy, momentum, angular momentum and apply them to basic problems.

**CO2.** The students after the completion of this course will be able to understand expression for the moment of inertia about the given axis of symmetry for different uniform mass distributions.

**CO3.** The students after the completion of this course will be able to understand and apply the principles of elasticity, viscosity and surface tension.

**CO4.** The students after the completion of this course will be able to understand and apply Kepler's law to describe the motion of planets and satellite in circular orbit, through the study of law of Gravitation.

**CO5.** The students after the completion of this course will be able to explain the phenomena of simple harmonic motion and the properties of systems executing such motions.

#### **Course 2: Electricity, Magnetism and Electromagnetic Theory**

**CO1.** The students after the completion of this course will be able to demonstrate Gauss law, Coulomb's law for the electric field, and apply it to systems of point charges as well as line, surface, and volume distributions of charges.

**CO2.** The students after the completion of this course will be able to demonstrate a working understanding of capacitors.

**CO3.** The students after the completion of this course will be able to describe the magnetic field produced by magnetic dipoles and electric currents and explain Faraday-Lenz and Maxwell laws to articulate the relationship between electric and magnetic fields.

**CO4.** The students after the completion of this course will be able to apply various network theorems and their applications.

### **Course 3: Thermodynamics, Kinetic Theory and Statistical Physics**

**C01.** The students after the completion of this course will be able to describe the basic concepts of laws of thermodynamics, the concept of entropy and the associated theorems, the thermodynamic potentials and their physical interpretations.

**C02.** The students after the completion of this course will be able to describe about Maxwell's thermodynamic relations.

**C03.** The students after the completion of this course will be able to describe the basic aspects of kinetic theory of gases, Maxwell-Boltzmann distribution law, equitation of energies, mean free path of molecular collisions etc.

**C04.** The students after the completion of this course will be able to describe the about the real gas equations, Vander Waal equation of state, the Joule- Thompson effect etc.

### **Course 4: Wave, Acoustics and Optics**

**C01.** The students after the completion of this course will be able to describe the principle of superposition of waves and thus describe the formation of standing waves.

**C02.** The students after the completion of this course will be able to apply basic knowledge of principles and theories about the behavior of light and the physical environment to conduct experiments.

**C03.** The students after the completion of this course will be able to use the principles of wave motion and superposition to explain the physics of polarization, interference and diffraction.

**C04.** The students after the completion of this course will be able to describe the working of selected optical instruments like biprism, interferometer, diffraction grating, and holograms.

**C05.** The students after the completion of this course will be able to describe the spontaneous and stimulated emission of radiation, optical pumping and population inversion as well as Ruby laser and He-Ne laser.

### **Course 5: Relativity, Quantum Mechanics, Atomic, Molecular and Nuclear Physics**

**C01.** The students after the completion of this course will be able to describe the main aspects of the inadequacies of classical mechanics and understand historical development of quantum mechanics and ability to discuss and interpret experiments that reveal the dual nature of matter.

**C02.** The students after the completion of this course will be able to describe the theory of quantum measurements, wave packets and uncertainty principle.

**C03.** The students after the completion of this course will be able to describe the central concepts of quantum mechanics and the Schrodinger equations.

**C04.** The students after the completion of this course will be able to describe the properties of nuclei and structure of atomic nucleus.

**C05.** The students after the completion of this course will be able to calculate the decay rates and lifetime of radioactive decays.

**C06.** The students after the completion of this course will be able to describe the fission and fusion as well as nuclear processes to produce nuclear energy in nuclear reactor and stellar energy in stars.

## **Course 6: Solid State Physics, Solid State Devices and Electronics**

**C01.** The students after the completion of this course will be able to describe the crystalline and amorphous substances and diffraction of X-rays by crystalline materials.

**C02.** The students after the completion of this course will be able to describe the lattice vibrations, phonons and in depth of knowledge of Einstein and Debye theory of specific heat of solids.

**C03.** The students after the completion of this course will be able to describe the band theory of solids and must be able to differentiate insulators, conductors and semiconductors.

**C04.** The students after the completion of this course will be able to describe the N- and P- type semiconductors, P-N junctions, application of PN junction for different type of rectifiers and voltage regulators.

**C05.** The students after the completion of this course will be able to describe the PNP and NPN transistors and their applications as amplifiers and oscillators.

## **Course 7: Algebra & Trigonometry**

**C01.** The students after the completion of this course will be able to describe Group theory, Ring theory, Vector Space, Modules.

**C02.** The students after the completion of this course will be able to find the inverse of matrix, Canonical form and apply the Cayley – Hamilton theorem.

**C03.** The students after the completion of this course will be able to describe that every problem can be solved as every theorem in Group theory and Ring theory has its proof and solution.

**C04.** The students after the completion of this course will be able to apply de-Moivre's theorem to solve related problems.

## **Course 8: Calculus**

**C01.** The students after the completion of this course will be able to test the continuity and differentiability of functions of one variable.

**C02.** The students after the completion of this course will be able to calculate and solve the definite and indefinite integrals.

**C03.** The students after the completion of this course will be able to find the Maclaurin and Taylor's series of functions at any value.

## **Course 9: Vector Analysis & Geometry**

**C01.** The students after the completion of this course will be able to determine & calculate vector and scalars, dot and cross products.

**C02.** The students after the completion of this course will be able to solve and verify Gauss, Green and Stokes theorem.

**C03.** The students after the completion of this course will be able to solve Vector Integration and differentiation.

**C04.** The students after the completion of this course will be able to describe Cone, Sphere, Cylinder, Generating Lines, Straight line, Plane etc.

## **Course 10: Advanced Calculus**

**C01.** The students after the completion of this course will be able to determine the series and alternating series. Different types of tests to solve the series.

**C02.** The students after the completion of this course will be able to determine Jacobian of two and three variables.

**C03.** The students after the completion of this course will be able to find the limit of a function of one and two and test its continuity and differentiability.

**C04.** The students after the completion of this course will be able to determine the Beta – Gamma functions and solve the double and triple integrations.

## **Course 11: Differential Equations**

**C01.** The students after the completion of this course will be able to solve the ordinary and partial differential equations.

**C02.** The students after the completion of this course will be able to compute the Laplace and Inverse Laplace transformation of the given equation.

**C03.** The students after the completion of this course will be able to describe and solve differential equations.

## **Course 12: Mechanics**

**C01.** The students after the completion of this course will be able to find the velocity and acceleration of a moving particle.

**C02.** The students after the completion of this course will be able to compute the equilibrium condition of particle.

**C03.** The students after the completion of this course will be able to describe the attraction and potential of different particles (Moving and Static)

## **Course 13: Analysis**

**C01.** The students after the completion of this course will be able to determine the Fourier series of full and half range of any function of one variable.

**C02.** The students after the completion of this course will be able to apply Schwarz and Young's theorem on various functions.

**C03.** The students after the completion of this course will be able to analyze all type of trigonometric real functions.

## **Course 14: Abstract Algebra**

**C01.** The students after the completion of this course will be able to use various forms of "Sylow theorem" to identify the whole structure of group.

**C02.** The students after the completion of this course will be able to analyze Groups, Sub-groups, Normal Sub-groups, and Semi-groups etc.

**C03.** The students after the completion of this course will be able to determine inner product of two Vectors, and Inner product space.

**C04.** The students after the completion of this course will be able to analyze Vector space, Ring, their types, modules, ideals etc.

### **Course 15: Advanced Discrete Mathematics**

**C01.** The students after the completion of this course will be able to describe Graphs, Trees, Spanning Trees, Circuits, finite state machine and their types.

**C02.** The students after the completion of this course will be able to describe the difference between Mealy and Moore machine.

**C03.** The students after the completion of this course will be able to compute the output of a finite state machine corresponding to their next state of the given input.

### **Course 16: Inorganic Chemistry**

**C01.** The students after the completion of this course will be able to describe Atomic Structure, Periodic Properties.

**C02.** The students after the completion of this course will be able to describe Chemical Bonding.

**C03.** The students after the completion of this course will be able to describe S-Block Elements, Chemistry of Noble Gases.

**C04.** The students after the completion of this course will be able to describe P-Block Elements, Inorganic Chemical Analysis.

**C05.** The students after the completion of this course will be able to describe Chemistry of Elements of First Transition Series.

**C06.** The students after the completion of this course will be able to describe Chemistry of Elements of Second & Third Transition Series.

**C07.** The students after the completion of this course will be able to describe Oxidation and Reduction, Coordination Compounds.

**C08.** The students after the completion of this course will be able to describe Chemistry of Lanthanide Elements, Chemistry of Actinides.

**C09.** The students after the completion of this course will be able to describe Acids and Bases, Non-Aqueous Solvents.

**C010.** The students after the completion of this course will be able to describe Metal-Ligand Bonding in Transition Metal Complexes.

**C011.** The students after the completion of this course will be able to describe Magnetic Properties of Transition Metal Complexes.

**C012.** The students after the completion of this course will be able to describe Organometallic Chemistry.

**C013.** The students after the completion of this course will be able to describe Bioinorganic Chemistry.



**C014.** The students after the completion of this course will be able to describe Hard and Soft Acids and Bases (HSAB).

### **Course 17: Organic Chemistry**

**C01.** The students after the completion of this course will be able to describe Electronic structure & bonding, mechanism of organic reactions.

**C02.** The students after the completion of this course will be able to describe Stereochemistry of organic compounds.

**C03.** The students after the completion of this course will be able to describe Aliphatic and aromatic ring compounds.

**C04.** The students after the completion of this course will be able to describe Alkenes, dienes and alkynes.

**C05.** The students after the completion of this course will be able to describe Arenes and aromaticity.

**C06.** The students after the completion of this course will be able to describe Alcohols, phenols, epoxides.

**C07.** The students after the completion of this course will be able to describe Aldehydes and ketones.

**C08.** The students after the completion of this course will be able to describe Carboxylic acids, substituted carboxylic acids, and carboxylic acid derivatives.

**C09.** The students after the completion of this course will be able to describe Organic compounds of nitrogen.

**C010.** The students after the completion of this course will be able to describe Heterocyclic compounds, amino acids and peptides.

**C011.** The students after the completion of this course will be able to describe organometallic compounds, organosulphur compounds, and organic synthesis via enolates.

**C012.** The students after the completion of this course will be able to describe Biomolecules, carbohydrates, proteins and nucleic acids.

**C013.** The students after the completion of this course will be able to describe Synthetic polymers, synthetic dyes.

**C014.** The students after the completion of this course will be able to describe Spectroscopy, mass spectroscopy, infra-red spectroscopy, uv-visible spectroscopy, nmr-spectroscopy, cmr-spectroscopy, magnetic resonance imaging (MRI).

### **Course 18: Physical Chemistry**

**C01.** The students after the completion of this course will be able to describe Mathematical concepts for chemist and computer.

**C02.** The students after the completion of this course will be able to describe Molecular velocities.

**C03.** The students after the completion of this course will be able to describe Liquid state.

**C04.** The students after the completion of this course will be able to describe Liquid crystals, colloidal state, and solid state.

- C05.** The students after the completion of this course will be able to describe Chemical kinetics, catalysis.
- C06.** The students after the completion of this course will be able to describe Thermo chemistry.
- C07.** The students after the completion of this course will be able to describe Laws of thermodynamics.
- C08.** The students after the completion of this course will be able to describe Phase equilibrium.
- C09.** The students after the completion of this course will be able to describe Electrochemistry.
- C010.** The students after the completion of this course will be able to describe Electrochemical cell or galvanic cell.
- C011.** The students after the completion of this course will be able to describe Quantum mechanics.
- C012.** The students after the completion of this course will be able to describe Quantum mechanical approach of molecular orbit theory.
- C013.** The students after the completion of this course will be able to describe Spectroscopy, electromagnetic radiation, vibrational spectra, and Raman spectra.
- C014.** The students after the completion of this course will be able to describe Electronic spectra, photo-chemistry.
- C015.** The students after the completion of this course will be able to describe Thermodynamics, physical properties and molecular structure, magnetic properties.
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## **B.Sc. (Bio Group) – 3 years Undergraduate programme**

### **Programme Outcomes (PO)**

- P01.** The undergraduate programme in Zoology / Botany / Microbiology is aimed at providing the students necessary inputs so as to set forth the task of bringing about new and innovative ideas/concepts so that the formulated model curricula in Zoology / Botany / Microbiology becomes in tune with the changing scenario and incorporate new and rapid advancements and multi-disciplinary skills, societal relevance, global interface, self-sustaining and supportive learning.
- P02.** The undergraduate programme in Zoology / Botany / Microbiology besides teaching the basic concepts of Zoology / Botany / Microbiology should in addition have broader vision for students so that the students therefore be exposed to societal interface of Zoology / Botany / Microbiology and the role of Zoology / Botany / Microbiology in the development of biological sciences.
- P03.** The students will be able to think critically and take informed decisions after identifying the accuracy and validity of their assumptions and ideas from intellectual, organizational, and personal perspectives.
- P04.** The students will be able to communicate effectively through speaking, reading, writing and listening clearly in one Indian language and thereby express themselves to the world by connecting with different ideas, books, people, media and technology.
- P05.** The students will be able to interact socially and stimulate views, reconcile disagreements and help reach consensual conclusions.

**P06.** The students will be able to demonstrate compassionate social concern and act with cognizant awareness of issues to contribute in civic life by volunteering impartially towards national development and thereby deliver effective citizenship.

**P07.** The students will be able to ethically recognize different value systems, understand the moral dimensions of individual decisions and accept responsibility for them.

**P08.** The students will be able to recognize the issues of environmental perspectives and appreciate sustainable development for long term environmental sustainability.

**P09.** The students will be able to engage themselves in life-long self-determining and learning in the comprehensive background of socio-technological changes for continued self-directed and life-long learning.

### **Programme Specific Outcomes (PSO)**

**PSO1.** The students after the completion of this programme will be able to understand and apply the knowledge of Cell Biology & Invertebrates.

**PSO2.** The students after the completion of this programme will be able to understand and apply the knowledge of Vertebrates & Embryology.

**PSO3.** The students after the completion of this programme will be able to understand and apply the knowledge of Anatomy & Physiology.

**PSO4.** The students after the completion of this programme will be able to understand and apply the knowledge of Vertebrate Endocrinology, Reproductive Biology Behavior, Evolution and Applied Zoology.

**PSO5.** The students after the completion of this programme will be able to understand and apply the knowledge of Ecology, Environmental biology; Toxicology; Microbiology and Medical Zoology.

**PSO6.** The students after the completion of this programme will be able to understand and apply the knowledge of Genetics, Cell Physiology, Biochemistry, Biotechnology and Bio-techniques.

**PSO7.** The students after the completion of this programme will be able to understand and apply the knowledge of General Diversity of Microbes and Cryptogams.

**PSO8.** The students after the completion of this programme will be able to understand and apply the knowledge of Cell Biology and Genetics.

**PSO9.** The students after the completion of this programme will be able to understand and apply the knowledge of Diversity of Seed Plants and their Systematics.

**PSO10.** The students after the completion of this programme will be able to understand and apply the knowledge of Structure Development and Reproduction in Flowering Plants.

**PSO11.** The students after the completion of this programme will be able to understand and apply the knowledge of Plant Physiology, Biochemistry and Biotechnology.

**PSO12.** The students after the completion of this programme will be able to understand and apply the knowledge of Ecology and Utilization of Plants.

**PSO13.** The students after the completion of this programme will be able to understand and apply the knowledge of General Microbiology.

**PS014.** The students after the completion of this programme will be able to understand and apply the fundamentals of Biochemistry and Immunology.

**PS015.** The students after the completion of this programme will be able to understand and apply the fundamentals of Microbial Physiology and Genetics.

**PS016.** The students after the completion of this programme will be able to understand and apply the fundamentals of Principles of Bioinstrumentation and Techniques.

**PS017.** The students after the completion of this programme will be able to understand and apply the fundamentals of Molecular Biology and Genetic Engineering.

**PS018.** The students after the completion of this programme will be able to understand and apply the fundamentals of Environmental and Medical Microbiology.

### **Course Outcomes (CO)**

#### **Course 1: Cell Biology & Invertebrates**

**CO1.** The students after the completion of this course will be able to describe Prokaryotic & Eukaryotic Cells.

**CO2.** The students after the completion of this course will be able to describe Cell divisions (Mitosis & Meiosis).

**CO3.** The students after the completion of this course will be able to describe general characteristics & classification of invertebrates.

**CO4.** The students after the completion of this course will be able to describe Helminthes & Annelida.

**CO5.** The students after the completion of this course will be able to describe Mollusca, Protochordata.

#### **Course 2: Vertebrates & Embryology**

**CO1.** The students after the completion of this course will be able to describe the origin and classification of Chordates.

**CO2.** The students after the completion of this course will be able to describe Fishes, Amphibia & Reptilia.

**CO3.** The students after the completion of this course will be able to describe Aves & Mammals.

**CO4.** The students after the completion of this course will be able to describe Gametogenesis, Fertilization & Parthenogenesis, and Development of frog upto formation of three germ layers.

**CO5.** The students after the completion of this course will be able to describe development of Chick upto formation of three germ layers, Extra embryonic membranes, Placenta in mammals.

#### **Course 3: Anatomy & Physiology**

**CO1.** The students after the completion of this course will be able to describe anatomy of various organ systems of vertebrates - Integument and its derivatives, structure of scales, hair and feathers; Alimentary canal and digestive glands in vertebrates; Respiratory Organs, Gills and lungs; Air-Sac in birds.

**CO2.** The students after the completion of this course will be able to describe endoskeleton-limbs, girdles and vertebrae; Circulatory System - Evolution of heart and aortic arches; Urogenital System - Kidney and excretory ducts.

**C03.** The students after the completion of this course will be able to describe nervous system - general plan of brain and spinal cord; Endocrine glands - classification and histology; Gonads and genital ducts.

**C04.** The students after the completion of this course will be able to describe digestion and absorption of dietary components; physiology of heart, cardiac cycle and ECG; blood coagulation; respiration-mechanism and control of breathing.

**C05.** The students after the completion of this course will be able to describe physiology of excretion, osmoregulation; physiology of muscle contraction; physiology of nerve impulse; synaptic transmission; ear and eye - structure and function.

#### **Course 4: Vertebrate Endocrinology, Reproductive Biology Behavior, Evolution and Applied Zoology**

**C01.** The students after the completion of this course will be able to describe general characters of hormones, hormone receptors, biosynthesis and secretion of thyroid, adrenal, ovarian and testicular hormones, endocrine disorder due to hormones and other glands.

**C02.** The students after the completion of this course will be able to describe reproductive cycle in vertebrates, menstruation, lactation and pregnancy, mechanism of parturition, hormonal regulation of gametogenesis, extra embryonic membrane.

**C03.** The students after the completion of this course will be able to describe evidences of organic evolution, theories of organic evolution, variation, mutation, isolation and natural selection, evolution of horse.

**C04.** The students after the completion of this course will be able to describe ethology, patterns of behavior taxes, reflexes, drives and stereotyped behavior, reproductive behavioral patterns, hormones, drugs and behavior.

**C05.** The students after the completion of this course will be able to describe aquaculture, sericulture, apiculture, pisciculture, poultry keeping, elements of pest control - chemical control & biological control.

#### **Course 5: Ecology, Environmental biology; Toxicology; Microbiology and Medical Zoology**

**C01.** The students after the completion of this course will be able to describe aims and scopes of ecology, major ecosystems of the world, population- characteristics and regulation of densities, communities and ecosystems, biogeochemical cycles, air and water pollution, ecological succession.

**C02.** The students after the completion of this course will be able to describe environmental biology, laws of limiting factors, food chain in a freshwater ecosystem, energy flow in ecosystem-trophic levels, conservation of natural resources, environmental impact assessment.

**C03.** The students after the completion of this course will be able to describe toxicology, definition of toxicity, classification of toxicants, principle of systematic toxicology, toxic agents and their action-metallic and inorganic agents, animal poisons - snake-venom, scorpion and bee poisoning, food poisoning.

**C04.** The students after the completion of this course will be able to describe microbiology, general and applied microbiology, microbiology of domestic water and sewage, microbiology of milk and milk products, industrial microbiology.

**C05.** The students after the completion of this course will be able to describe medical microbiology, brief introduction to pathogenic micro-organisms, rickettsia, spirochaetes and bacteria, brief account of life-history and pathogenicity of the following pathogens with reference to man; prophylaxis and treatment -

pathogenic protozoans - entamoeba, trypanosoma, and giardia, pathogenic helminths-schistosoma, nematode pathogenic parasites of man, vector insects.

### **Course 6: Genetics, Cell Physiology, Biochemistry, Biotechnology and Bio-techniques**

**CO1.** The students after the completion of this course will be able to describe genetics, linkage and linkage maps, varieties of gene expression - multiple alleles; lithogenesis; pleiotropic genes; gene interaction; epistasis, sex-chromosome systems, and sex-linkage, mutation and chromosomal alterations; meiotic consequences, human genetics - chromosomal and single gene disorders (somatic cell genetics).

**CO2.** The students after the completion of this course will be able to describe cell physiology, general idea about pH and buffer, transport across membrane - cell membrane; mitochondria and endoplasmic reticulum, active transport and its mechanism; active transport in mitochondria and endoplasmic reticulum, hydrolytic enzymes - their chemical nature, activation and specificity.

**CO3.** The students after the completion of this course will be able to describe biochemistry, amino acids and peptides - basic structure and biological function, carbohydrate and its metabolism - glycogenesis; gluconeogenesis; glycolysis, glycogenolysis; Kreb's cycle, lipid metabolism - oxidation of glycerol; oxidation of fatty acid, protein metabolism - deamination, transamination, transmethylation; biosynthesis of protein.

**CO4.** The students after the completion of this course will be able to describe biotechnology - scope and importance, recombinant DNA and gene cloning, cloned genes and other tools of biotechnology, applications of biotechnology in pharmaceutical industry, and food processing industry.

**CO5.** The students after the completion of this course will be able to describe biotechniques principles and techniques of pH meter, colorimeter, microscopy-light microscopes, phase contrast and electron microscopes, centrifugation, separation of biomolecules by chromatography and electrophoresis, biochemical methods for determination of protein, lipids, and carbohydrates.

### **Course 7: General Diversity of Microbes and Cryptogams**

**CO1.** The students after the completion of this course will be able to describe Viruses and Bacteria: General account of viruses and mycoplasma; bacteria structure; nutrition, reproduction and economic importance; general account of cyanobacteria.

**CO2.** The students after the completion of this course will be able to describe Algae: General characters, classification and economic importance; important features and life history of Chlorophyceae-Volvox, Oedogonium, Coleochaete; Xanthophyceae- Vaucheria; Phaeophyceae- Ectocarpus, Sargassum; Rhodophyceae- Polysiphonia.

**CO3.** The students after the completion of this course will be able to describe Fungi: General characters, classification and economic importance; important features and life history of Mastigomycotina-Pythium, Phytophthora; Zygomycotina- Mucor, Ascomycotina-Saccharomyces, Eurotium, Chaetomium, Peziza; Basidiomycotina- Puccinia, Agaricus; Deuteromycotina-Cercospora, Colletotrichum; general account of Lichens.

**CO4.** The students after the completion of this course will be able to describe Bryophyta: Amphibians of plant kingdom displaying alternation of generations; structure, reproduction and classification of Hepaticopsida (e.g. RicciaMarchantia); Anthocerotopsida (e.g. Anthoceros), Bryopsida (e.g. Funaria)

**CO5.** The students after the completion of this course will be able to describe Pteridophyta: The first vascular plants; important characteristics of Psilopsida, Lycopsida, Sphenopsida and Pteropsida; structure, Reproduction in Rhynia, LycopodiumSelaginella, Equisetum, Pteris and Marsilea.



## **Course 8: Cell Biology and Genetics**

**C01.** The students after the completion of this course will be able to describe the Cell: Envelope; Plasma membrane; bilayer lipid structure; functions; the cell wall, Ultra structure and function of nucleus: nuclear membrane; nucleolus and other organelles: Golgi bodies, ER, peroxisomes, Vacuoles.

**C02.** The students after the completion of this course will be able to describe Chromosome organization: Morphology; centromere and telomere; chromosome alterations; deletions, duplications, translocations, inversions; variations in chromosome number aneuploidy, polyploidy; sex chromosomes, Cell division: Mitosis; meiosis.

**C03.** The students after the completion of this course will be able to describe DNA the genetic material: DNA structure; replication; DNA- protein interaction; the nucleosome model; genetic code; satellite and repetitive DNA, Extra nuclear genome: Presence and function of mitochondrial and plastid DNA; plasmids.

**C04.** The students after the completion of this course will be able to describe Gene expression: Structure of gene; transfer of genetic information; transcription, translation, protein synthesis; tRNA; ribosomes; regulation of gene expression in prokaryotes and eukaryotes; proteins - 1D, 2D and 3D structures.

**C05.** The students after the completion of this course will be able to describe Genetic Variations: Mutations, spontaneous and induced; transposable genetic elements; DNA damage and repair: Genetic inheritance: Mendelism; laws of segregation and independent assortment: linkage analysis; allelic and non-allelic interactions.

## **Course 9: Diversity of Seed Plants and their Systematics**

**C01.** The students after the completion of this course will be able to describe characteristics of seed plants; evolution of the seed habit; seed plants with (angiosperms) and without (gymnosperms) fruits; fossil and living seed plants, general features of gymnosperms and their classification; evolution and diversity of gymnosperms; geological time scale, fossilization and fossil gymnosperms.

**C02.** The students after the completion of this course will be able to describe morphology of vegetative and reproductive parts; anatomy of roots, stem and leaf, reproduction and life cycle of Pinus, Cycas and Ephedra.

**C03.** The students after the completion of this course will be able to describe angiosperms: origin and evolution, some examples of primitive angiosperms, angiosperms taxonomy: brief history, aims and fundamental components; identification, keys taxonomic literature, botanical nomenclature: principles and rules; taxonomic ranks; type concept; principle of priority.

**C04.** The students after the completion of this course will be able to describe classification of angiosperms; salient features of the systems proposed by Bentham and Hooker and Engler and Prantl, major contributions of cytology, phytochemistry and taxometrics to taxonomy.

**C05.** The students after the completion of this course will be able to describe diversity of flowering plants: general account of the families- Ranunculaceae, Brassicaceae, Malvaceae, Rutaceae, Fabaceae, Apiaceae, Acanthaceae, Apocynaceae, Asclepiadaceae, Solanaceae, Lamiaceae, Chenopodiaceae, Euphorbiaceae, Liliaceae and Poaceae.

## **Course 10: Structure Development and Reproduction in Flowering Plants**

**C01.** The students after the completion of this course will be able to describe the basic body plan of a flowering plant: modular type of growth, diversity in plant form in annuals, biennials and perennials;

convergence of evolution of tree habit in gymnosperms, monocotyledons and dicotyledons; trees-largest and longest-lived organisms.

**C02.** The students after the completion of this course will be able to describe the shoot system: the shoot apical meristem and its histological organization; vascularization of primary shoot in monocotyledons and dicotyledons; formation of internodes, branching pattern; monopodial and sympodial growth canopy architecture; cambium and its functions; formation of secondary xylem, a general account of wood structure in relation to conduction of water and minerals; characteristics of growth rings, sapwood and heart wood; role of woody skeleton; secondary phloem – structure, function, relationships, periderm.

**C03.** The students after the completion of this course will be able to describe leaf: origin, development, arrangement and diversity in size and shape; internal structure in relation to photosynthesis and water loss; adaptations to water stress; senescence and abscission, the root system: the root apical meristem; differentiation of primary and secondary tissues and their roles; structural modification for storage, respiration, reproduction and for interaction with microbes.

**C04.** The students after the completion of this course will be able to describe flower: a modified shoot; structure, development and varieties of flower, functions, structure of anther and pistil, the male and female gametophytes; types of pollination; attractions and rewards for pollinators; pollen-pistil interaction, self incompatibility, double fertilization, formation of seed-endosperm and embryo; fruit development and maturation.

**C05.** The students after the completion of this course will be able to describe significance of seed: suspended animation; ecological adaptation; unit of genetic recombination and replenishment, dispersal strategies, vegetative reproduction: vegetative propagation, grafting, economic aspects.

### **Course 11: Plant Physiology, Biochemistry and Biotechnology**

**C01.** The students after the completion of this course will be able to describe plant-water relations: importance of water to plant life; physical properties of water; diffusion and osmosis; absorption, transport of water and transpiration; physiology of stomata, mineral nutrition: essential macro and micro-elements and their role; mineral uptake; deficiency and toxicity symptoms.

**C02.** The students after the completion of this course will be able to describe transport of organic substances: mechanism of phloem transport; source-sink relationship; factors affecting translocation, basic of enzymology: discovery and nomenclature; characteristics of enzymes; concept of holoenzyme, apoenzyme, coenzyme and cofactors; regulation of enzyme activity, mechanism of action, photosynthesis: significance; historical aspects; photosynthetic pigments; action spectra and enhancement effects; concept of two photosystems; Z-scheme; photo-phosphorylation; Calvin cycle; C4 pathway; CAM plants; photorespiration.

**C03.** The students after the completion of this course will be able to describe respiration: ATP - the biological energy currency; aerobic and anaerobic respiration; Krebs' cycle, electron transport mechanism (chemi-osmotic theory); redox potential; oxidative phosphorylation; pentose phosphate pathway, Nitrogen and lipid metabolism: Biology of nitrogen fixation; importance of nitrate reductase and its regulations; ammonium assimilation; structure and function of lipids; fatty acid biosynthesis; Beta-oxidation; saturated and unsaturated fatty acids; storage and mobilization of fatty acids.

**C04.** The students after the completion of this course will be able to describe growth and development: definitions; phases of growth and development; kinetics of growth, seed dormancy, seed germination and factors of their regulation; plant movements; the concept of photoperiodism; physiology of flowering; florigen concept; biological clocks; physiology of senescence, fruit ripening; plant hormones auxins, gibberellins, cytokinins, abscisic acid and ethylene, history of their discovery, biosynthesis and

mechanism of action; photomorphogenesis; phytochromes and cryptochromes, their discovery, physiological role and mechanism of action.

**C05.** The students after the completion of this course will be able to describe genetic engineering: tools and techniques of recombinant DNA technology; cloning vectors; genomic and cDNA library; transposable elements; techniques of gene mapping and chromosome walking, biotechnology: functional definition; basic aspects of plant tissue culture; cellular totipotency, differentiation and morphogenesis; biology of *Agrobacterium*; vectors for gene delivery and marker genes; salient achievements in crop biotechnology.

## **Course 12: Ecology and Utilization of Plants**

**C01.** The students after the completion of this course will be able to describe plants and environment: atmosphere (gaseous composition), water (properties of water cycle), light (global radiation, photosynthetically active radiation), temperature, soil (development, soil profiles, physico-chemical properties), and biota, Morphological, anatomical and physiological responses of plants to water (hydrophytes and xerophytes), temperature (thermoperiodicity), light (photoperiodism, heliophytes and sciophytes) and salinity.

**C02.** The students after the completion of this course will be able to describe community ecology: community characteristics, frequency, density, cover, life forms biological spectrum; ecological succession, ecosystems: structure, abiotic and biotic components; food chain, food web, ecological pyramids, energy flow; biogeochemical cycles of carbon, nitrogen and phosphorus.

**C03.** The students after the completion of this course will be able to describe population ecology: growth curves; ecotypes; ecads, biogeographical regions of India, Vegetation types of India: Forests and grasslands.

**C04.** The students after the completion of this course will be able to describe utilization of plants food plants: rice, wheat, maize, potato, sugarcane, fibers: cotton and jute, vegetable oils: groundnut, mustard and coconut, general account of sources of firewood, timber and bamboos.

**C05.** The students after the completion of this course will be able to describe Spices, Medicinal plants, Beverages- Tea and coffee, Rubber.

## **Course 13: General Microbiology**

**C01.** The students after the completion of this course will be able to describe unity of microbial world, scope of microbiology, microbiology and human health, beneficial and harmful microbes, development of microbiology (contributions and pioneers).

**C02.** The students after the completion of this course will be able to describe diversity of microbial world: principle of classification, classification of viruses, bacteria (including cyanobacteria) algae and fungi (including yeast) and protozoa.

**C03.** The students after the completion of this course will be able to describe methods of studying microorganism: origin of microbes, microscopy, pure culture techniques, sterilization, aseptic techniques, isolation of pure culture, conditions and media for growth of microorganisms in the laboratory.

**C04.** The students after the completion of this course will be able to describe general organization of microbes; structural functional organization and economic importance of algae (*Nostoc*, *Anabaena*, *Oscillatoria*), fungi (*Rhizopus*, *Penicillium*, *Aspergillus*), yeast and lichens.

**C05.** The students after the completion of this course will be able to describe structure, functional organization and economic importance of bacteria (Gram +ve and Gram -ve), viruses (plant and animal) and protozoa (Ciliates, Flagellates and Sporozoans).

#### **Course 14: Biochemistry and Immunology**

**C01.** The students after the completion of this course will be able to describe structure and properties of mono and disaccharides, amino acids and peptides, bases; purines and pyrimidines, sugars; ribose, deoxyribose and nucleoside and nucleotide; general account of lipids.

**C02.** The students after the completion of this course will be able to describe the concept of macromolecules; structural and functional organization of polysaccharides (starch, glycogen, cellulose, mucopolysaccharides), proteins and nucleic acids (DNA, RNA).

**C03.** The students after the completion of this course will be able to describe enzymes; historical account, classification, co-enzymes and their role, enzyme action, enzyme kinetics,  $K_m$ ,  $V_m$  and enzyme inhibition, allosteric enzyme and isoenzyme, extracellular enzymes and their role.

**C04.** The students after the completion of this course will be able to describe metabolism; general concept of metabolism (anabolism, catabolism and amphibolism), glycolysis, TCA Cycle and HMP Shunt, Anaerobic catabolism of glucose; alpha, beta and gamma oxidation of fatty acids.

**C05.** The students after the completion of this course will be able to describe concept of immunity, innate and acquired immunity, brief account of cells and organs of immune system, antigen and antigenicity, antibody structure and function, antigen-antibody reaction.

#### **Course 15: Microbial Physiology and Genetics**

**C01.** The students after the completion of this course will be able to describe plasma membrane and transport across membrane, energy transformation, physiology of bacterial growth, phases of growth, growth conditions, differentiation in bacterial cells-sporulation, germination; bacterial cell division replication of chromosome, partition of chromosome into daughter cell.

**C02.** The students after the completion of this course will be able to describe primary and secondary metabolism.

**C03.** The students after the completion of this course will be able to describe bacterial plasmids; structure and properties, replication, incompatibility, plasmid amplification, bacteriophages; lytic development cycle - T4; lytic and lysogenic development of phage, single stranded DNA phage, transposition; structure of bacterial transposons, types of bacterial transposons, mechanism of antibiotic resistance and spread of antibiotic resistance.

**C04.** The students after the completion of this course will be able to describe genetic recombination; requirements, molecular basis, genetic analysis of recombination in bacteria.

**C05.** The students after the completion of this course will be able to describe DNA repair and restriction; types of repair systems, restriction endonuclease, various types of restriction enzymes, dam and dcm methylases.

#### **Course 16: Principles of Bioinstrumentation and Techniques**

**C01.** The students after the completion of this course will be able to describe colorimetry and spectrophotometry, spectrofluorimetry, turbidometry, nephelometry, luminometry, pH meter.

**C02.** The students after the completion of this course will be able to describe chromatography; adsorption partition, column, gas, ion-exchange, gel filtration, and affinity chromatographies, HPLC, FPLC.

**C03.** The students after the completion of this course will be able to describe centrifugation and ultracentrifugation, microscopy- light, phase-contrast, fluorescence, dark field, electron microscopy, laser, confocal, microscopy and digital image analysis.

**C04.** The students after the completion of this course will be able to describe tissue culture techniques; principal and requirements of animal tissue culture, decontamination, sterilization and disinfection.

**C05.** The students after the completion of this course will be able to describe electrophoresis techniques- types and their application; electrophoresis of proteins and nucleic acids, immune-electrophoresis sequencing of proteins and nucleic acids, radioisotope techniques; nature of radioactivity, detection measurement, counter, safety aspects, enzyme purification and assay techniques.

### **Course 17: Molecular Biology and Genetic Engineering**

**C01.** The students after the completion of this course will be able to describe history of molecular biology, model systems, concepts of molecular biology, early history of genetic engineering, genetic engineering concepts, ethical issue.

**C02.** The students after the completion of this course will be able to describe mutation; spontaneous and induced, base pair change, frame shift, deletion, inversion, random duplication, insertion, useful phenotypes (auxotrophs, conditional lethal, resistance), reversion vs. suppression, Ames's test.

**C03.** The students after the completion of this course will be able to describe function of macromolecules; early observation on the mechanism of heredity, DNA as genetic material; basic mechanism of replication, enzymes involved in replication, enzymes involved in transcription translation, genetic code, regulation of gene expression-transcription, translation and control of gene expression in microbes.

**C04.** The students after the completion of this course will be able to describe DNA repair and restriction, types of repair systems, restriction modification systems, types of restriction enzymes, properties and uses, methylation, biology of plasmids, bacteriophages, lytic vs. lysogenic phages, single standard DNA phages, M 13, restriction modification systems, restriction enzymes.

**C05.** The students after the completion of this course will be able to describe plasmid and phage vectors, restriction and ligation of vector and passenger DNA, transformation of host cells, selection vs. screening of recombinant colonies, analysis of recombinant clones, DNA sequencing, protein separation and identification methods.

### **Course 18: Environmental and Medical Microbiology**

**C01.** The students after the completion of this course will be able to describe aerobiology; definition, droplet nuclei, aerosol assessment of air quality, some important air borne diseases caused by bacteria (Diphtheria, Pneumonia, Meningitis), virus (Influenza, Chicken pox, Measles) and fungi (mycosis); their symptoms and preventive measures.

**C02.** The students after the completion of this course will be able to describe soil microbiology: physical and chemical characteristics and micro flora of various soil types, rhizosphere, phyllosphere, brief account of microbial interactions: symbiosis, mutualism, commensalism, competition, amensalism, synergism, parasitism, and predation. biofertilizers - biological nitrogen fixation, nitrogenase enzyme, nif genes, symbiotic nitrogen fixation, and non-symbiotic nitrogen fixation (Azotobacter, Azospirillum), VAM-ecto-endo-ectendomycorrhizae.

**C03.** The students after the completion of this course will be able to describe aquatic microbiology; ecosystem, fresh water (ponds, lakes, stream) and marine, water zonation: upwelling, eutrophication, potability of water - microbial assessment of water quality, brief account of water borne diseases (Typhoid, Dysentery, Cholera, Hepatitis) and preventive measures.

**C04.** The students after the completion of this course will be able to describe food spoilage and food borne infections, biodegradation, xenobiotics, bioaccumulation, biopesticides and deterioration, general concept of industrial microbiology and their applications.

**C05.** The students after the completion of this course will be able to describe waste treatment: types of wastes, characterization of solid and liquid waste, waste treatment solid saccharification, gasification, composting, liquid waste treatment - aerobic, anaerobic primary, secondary and tertiary methods, useful byproducts, mushroom, fuel, fertilizer, biodegradation of industrial waste.

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## **B.A.- 3 years Undergraduate programme**

### **Programme Outcomes (PO)**

**PO1.** The undergraduate programme in Hindi Literature / English Literature / Economics / Political Science / History / Sociology / Geography / Music / Home Science / Psychology / Dance / Drawing is aimed at providing the students necessary inputs so as to set forth the task of bringing about new and innovative ideas/concepts so that the formulated model curricula in Hindi Literature / English Literature / Economics / Political Science / History / Sociology / Geography / Music / Home Science / Psychology / Dance / Drawing becomes in tune with the changing scenario and incorporate new and rapid advancements and multi-disciplinary skills, societal relevance, global interface, self-sustaining and supportive learning.

**PO2.** The undergraduate programme in Hindi Literature / English Literature / Economics / Political Science / History / Sociology / Geography / Music / Home Science / Psychology / Dance / Drawing besides teaching the basic concepts of Hindi Literature / English Literature / Economics / Political Science / History / Sociology / Geography / Music / Home Science / Psychology / Dance / Drawing should in addition have broader vision for students so that the students therefore be exposed to societal interface of Hindi Literature / English Literature / Economics / Political Science / History / Sociology / Geography / Music / Home Science / Psychology / Dance / Drawing and the role of Hindi Literature / English Literature / Economics / Political Science / History / Sociology / Geography / Music / Home Science / Psychology / Dance / Drawing in the development of arts and social sciences.

**PO3.** The students will be able to think critically and take informed decisions after identifying the accuracy and validity of their assumptions and ideas from intellectual, organizational, and personal perspectives.

**PO4.** The students will be able to communicate effectively through speaking, reading, writing and listening clearly in one Indian language and thereby express themselves to the world by connecting with different ideas, books, people, media and technology.

**PO5.** The students will be able to interact socially and stimulate views, reconcile disagreements and help reach consensual conclusions.

**PO6.** The students will be able to demonstrate compassionate social concern and act with cognizant awareness of issues to contribute in civic life by volunteering impartially towards national development and thereby deliver effective citizenship.

**P07.** The students will be able to ethically recognize different value systems, understand the moral dimensions of individual decisions and accept responsibility for them.

**P08.** The students will be able to recognize the issues of environmental perspectives and appreciate sustainable development for long term environmental sustainability.

**P09.** The students will be able to engage themselves in life-long self-determining and learning in the comprehensive background of socio-technological changes for continued self-directed and life-long learning.

### **Programme Specific Outcomes (PSO)**

**PS01.** The students after the completion of this programme will be able to understand and apply the knowledge of पुराचीन हिन्दी काव्य

**PS02.** The students after the completion of this programme will be able to understand and apply the knowledge of हिन्दी कथा साहित्य

**PS03.** The students after the completion of this programme will be able to understand and apply the knowledge of आधुनिक हिन्दी कथा

**PS04.** The students after the completion of this programme will be able to understand and apply the knowledge of हिन्दी निबंध तथा गद्य विद्या

**PS05.** The students after the completion of this programme will be able to understand and apply the knowledge of जनपदीय भाषा साहित्य (छत्तीसगढ़ी)

**PS06.** The students after the completion of this programme will be able to understand and apply the knowledge of हिन्दी भाषा-साहित्य का इतिहास तथा काव्यांग विवेचन

**PS07.** The students after the completion of this programme will be able to understand and apply the knowledge of Micro Economics.

**PS08.** The students after the completion of this programme will be able to understand and apply the knowledge of Indian Economy.

**PSO 9 .** The students after the completion of this programme will be able to understand and apply the knowledge of Macro Economics.

**PSO10.** The students after the completion of this programme will be able to understand and apply the knowledge of Money, Banking and Public Finance.

**PSO11.** The students after the completion of this programme will be able to understand and apply the knowledge of Development and Environmental Economics.

**PSO12.** The students after the completion of this programme will be able to understand and apply the knowledge of Statistical Methods.

**PSO13.** The students after the completion of this programme will be able to understand and apply the knowledge of Political Theory.

**PSO14.** The students after the completion of this programme will be able to understand and apply the knowledge of Indian Government and Politics.

**PSO 15.** The students after the completion of this programme will be able to understand and apply the knowledge of Western Political Thought.

**PSO16.** The students after the completion of this programme will be able to understand and apply the fundamentals of Comparative Politics and Government.

**PSO17.** The students after the completion of this programme will be able to understand and apply the knowledge of International Politics.

**PSO 18.** The students after the completion of this programme will be able to understand and apply the knowledge of Public Administration.

**PSO 19.** The students after the completion of this programme will be able to understand and apply the knowledge of History of India from the Beginning to 1206 A.D.

**PSO20.** The students after the completion of this programme will be able to understand and apply the knowledge of World History from 1453 to 1789 A.D.

**PSO21.** The students after the completion of this programme will be able to understand and apply the knowledge of History of India from 1206 to 1761 A.D.

**PSO22.** The students after the completion of this programme will be able to understand and apply the knowledge of World History from 1789 to 1871 A.D.

**PSO23.** The students after the completion of this programme will be able to understand and apply the knowledge of History of India from 1761 to 1950 A.D.

**PSO24.** The students after the completion of this programme will be able to understand and apply the knowledge of World History from 1871 to 1945 A.D.

**PSO25.** The students after the completion of this programme will be able to understand and apply the knowledge of Introduction to Sociology.

**PSO26.** The students after the completion of this programme will be able to understand and apply the knowledge of Contemporary Indian Society.

**PSO27.** The students after the completion of this programme will be able to understand and apply the knowledge of Society in India.



**PS028.** The students after the completion of this programme will be able to understand and apply the knowledge of Crime and Society.

**PS029.** The students after the completion of this programme will be able to understand and apply the knowledge of Sociology of Tribal Society.

**PS030.** The students after the completion of this programme will be able to understand and apply the knowledge of Social Research Methods.

**PS031.** The students after the completion of this programme will be able to understand and apply the knowledge of Physical Geography - Elements of Geomorphology.

**PS032.** The students after the completion of this programme will be able to understand and apply the knowledge of Introduction to Geography and Human Geography.

**PS033.** The students after the completion of this programme will be able to understand and apply the knowledge of Physical Geography - Climatology and Oceanography.

**PS034.** The students after the completion of this programme will be able to understand and apply the knowledge of Regional Geography with Special Reference to North America.

**PS035.** The students after the completion of this programme will be able to understand and apply the knowledge of Geography - Resources and Environment.

**PS036.** The students after the completion of this programme will be able to understand and apply the knowledge of Geography of India (with special reference to Chhattisgarh).

## **Course Outcomes (CO)**

### **Course 1: पाठ्य हिन्दी काव्य**

**CO1.** The students after the completion of this course will be able to contemplate and comprehend कबीर  
(कबीर-कांतिकुमार जैनद्वय)

**CO2.** The students after the completion of this course will be able to contemplate and comprehend जायसी-सक्षिप्तपद्मावत- यामसदरदासनागमतीवियोगवर्णन

**CO3.** The students after the completion of this course will be able to contemplate and comprehend सूर  
(भ्रमर गीतसार- सं. आचार्यरामचन्द्रद्वय)

**CO4.** The students after the completion of this course will be able to contemplate and comprehend तुलसी- 'रामचरितमानस'

**CO5.** The students after the completion of this course will be able to contemplate and comprehend अनानन्द (अनानन्द-सर्षविश्वनाथप्रसादमिश्रद्वय)

**CO6.** The students after the completion of this course will be able to contemplate and comprehend विद्यापति

**CO7.** The students after the completion of this course will be able to contemplate and comprehend रहीम

**CO8.** The students after the completion of this course will be able to contemplate and comprehend रसखान

### **Course 2: हिन्दी कथा साहित्य**

**CO1.** The students after the completion of this course will be able to contemplate and comprehend प्रेमचंद. गबन

**CO2.** The students after the completion of this course will be able to contemplate and comprehend प्रेमचंद-कफन

**CO3.** The students after the completion of this course will be able to contemplate and comprehend जयशंकरप्रसाद-आकाशदीप

**CO4.** The students after the completion of this course will be able to contemplate and comprehend फकीशवरनाथरेवु-ठेस

**CO5.** The students after the completion of this course will be able to contemplate and comprehend मेहनराकेश-मलवेकामालिक

**CO6.** The students after the completion of this course will be able to contemplate and comprehend भीष्मसाहनी-चीफकीदावत

**CO7.** The students after the completion of this course will be able to contemplate and comprehend राजेन्द्र यादव-बिरादरीबाहर

**CO8.** The students after the completion of this course will be able to contemplate and comprehend रागेय राव-गदल

**C09.** The students after the completion of this course will be able to contemplate and comprehend  
उपेन्द्रनाथअशक, 2. बालशाँगरिरेड्डी 3. शावनी

### Course 3: अर्वाचीन हिन्दी काव्य

**C01.** The students after the completion of this course will be able to contemplate and comprehend  
मैथिलीशरवागुप्त—भारत—भारती की कविताएं

**C02.** The students after the completion of this course will be able to contemplate and comprehend  
सूर्यकांत त्रिपाठीनिराली—सखि बसन्तआया, वर दे, वीवावादिनीवर द, हिन्दी क सुमना क  
पति पत्र, तंझी—फँथर, राजे न अपनी रखवालीकी।

**C03.** The students after the completion of this course will be able to contemplate and comprehend  
सुमित्रानंदनपंत—बादल, परिवर्तन, खालता इधरजन्मलोचन, आजकादुख कलकाआँहाद, ताज, झंझा मैनीम, शरत्माता।

**C04.** The students after the completion of this course will be able to contemplate and comprehend  
माखनलालचतुर्दी—ऑलिपथीसे, सांझआँरढेलक की थाप, मैबेरहीहुं दही, उलाहना, निः आस्त्र सेनानी।

**C05.** The students after the completion of this course will be able to contemplate and comprehend सही.  
वहँस्यायनअज्ञेय —सबरेउठातो धूप खिलीथी, सामाग्रीकानैवेद्य दान्द, र, वदनीजीलोदूर्वाचल।

**C06.** The students after the completion of this course will be able to contemplate and comprehend  
व्यध्या सिंह उपाध्याय "हरिअध", सुभद्राकुमारीचहान, श्रीकान्तवर्म।

### Course 4: हिन्दीनिबंध तथा गद्य विद्याएं

**C01.** The students after the completion of this course will be able to contemplate and comprehend  
नाटक—अंधेरीनगरी—भारतेनदुहरिशचन्द्र

**C02.** The students after the completion of this course will be able to contemplate and comprehend निबंध  
कोध —आचार्यरामचन्द्रशुक्ल, बसन्त—डॉ. हजारीप्रसाद द्विवेदी, उस अमराई ने राम—रामकहीहै—डॉ.  
विद्यानिवासमिश्र, काव्येशुनाट्यम रम्यम् —बाबूगुलाबराय, बईमानी की परत—हरिशंकरपरसाई।

**C03.** The students after the completion of this course will be able to contemplate and comprehend  
एंकाकी—आँरगजेब की आखिरीरात—डॉ. रामकुमारवर्मा, स्ट्राईक—गुनशाँवर, एक दिन—लक्ष्मीनारायण  
मिश्र, दसहजार—उदयशंकरभट्ट, मम्मीठकुराईन—डॉ. लक्ष्मीनारायण लाल

**C04.** The students after the completion of this course will be able to contemplate and comprehend  
राहुलसाकूँ, यायन, महादेवीवर्मा, हबीबतनवीर

### Course 5 रू जनपदीय भाषा साहित्य (छँतीसगढी)

**C01.** The students after the completion of this course will be able to contemplate and comprehend  
रचनाएं—प्राचीनकविसंत धर्मदास—गुरु पइयालागौनाम लखादीजोहो, नैनआगे ख्याल , नानेरा, भजनकरौभाईरे, अइसनतनपाय के ।

**C02.** The students after the completion of this course will be able to contemplate and comprehend  
लखनलालगुप्तका गद्य—संनपान

**C03.** The students after the completion of this course will be able to contemplate and comprehend  
अर्वाचीनरचनाकारडॉ. सँयशामाआडिलरचित गद्य —सीख सीख के गढ

**C04.** The students after the completion of this course will be able to contemplate and comprehend डा.  
विनय पाठक की कविताएं—तय उठथाससुरुजउठ, एक किसिम क नियाव

**C05.** The students after the completion of this course will be able to contemplate and comprehend

मुकुन्दकेशी-ल-छँ तीसगढ़ गजल " छँ बिँता के मनखे देखों ..... से-मछरीमनलाख लेथे"

**C06.** The students after the completion of this course will be able to contemplate and comprehend

सुन्दरलाल 'र्मा, कविलनाथकशायप, रामचन्द्रशेखर मुख (रंगकमी)

**Course 6: हिन्दीभाषा-साहित्य काइतिहासतथाकाव्यांगविवेचन**

**C01.** The students after the completion of this course will be able to contemplate and comprehend हिन्दी

भाषाकास्वरूपविकास- हिन्दी करउठेपठित, हिन्दी की मूलआकरभाषाएतथाविभिन्नविभाषाओंकाविकास । हिन्दी भाषा के विभिन्न रूप-बोलचाल की भाषा, रचनात्मकभाषा, राष्ट्र भाषा, राजभाषा, सम्पर्कभाषा, संचारभाषा

**C02.** The students after the completion of this course will be able to contemplate and comprehend हिन्दी का

उदभव-तत्सम, तदभव, दे आज, आगताउदावली।

**C03.** The students after the completion of this course will be able to contemplate and comprehend हिन्दी

साहित्य काइतिहास :-आदिकाल, पूर्व मध्यकाल, उत्तर मध्यकालआरआधुनिककालकीसामाजिक, सांस्कृतिक पृष्ठभूमि, प्रमुख युगपरिचय, वि श्रृंखलाकारआरउनकीपरिचय कृतियां, साहित्यिकवि श्रृंखलाएं

**C04.** The students after the completion of this course will be able to contemplate and comprehend

काव्यांग-काव्य कास्वरूप एवंप्रयोजन/रस के विभिन्नभेद, विभिन्नअंग, विभावादितथाउदाहरण।

दोहा, सोरठा, चौपाई, कुवडलियां, सवैया। उदाहरण-अनुप्रास, यमक, लेश, वक्रोक्ति, पुनरुक्तिप्रका । अर्थालंकार-उपमा, रूपक, उल्लेख, अति योक्ति, आतिमान।

**C05.** The students after the completion of this course will be able to contemplate and comprehend

राजभाषा हिन्दी -मलिकमोहम्मद

**C06.** The students after the completion of this course will be able to contemplate and comprehend हिन्दी

भाषा-डॉ. भोलानाथतिवारी।

**Course 7: Micro Economics**

**C01.** The students after the completion of this course will be able to contemplate and comprehend and recognize the definitions, nature and scope of economics.

**C02.** The students after the completion of this course will be able to contemplate and comprehend and recognize the theory of production and cost.

**C03.** The students after the completion of this course will be able to contemplate and comprehend and recognize the market structure.

**C04.** The students after the completion of this course will be able to contemplate and comprehend and recognize factor pricing.

**C05.** The students after the completion of this course will be able to contemplate and comprehend and recognize welfare economics.

**Course 8: Indian Economy**

**C01.** The students after the completion of this course will be able to contemplate and comprehend and recognize pre and post independent Indian economy.

**C02.** The students after the completion of this course will be able to contemplate and comprehend and recognize the role of economics in population and human development.

**C03.** The students after the completion of this course will be able to contemplate and comprehend and recognize the role of economics in agriculture.

**C04.** The students after the completion of this course will be able to contemplate and comprehend and recognize the role of economics in industry.

**C05.** The students after the completion of this course will be able to contemplate and comprehend and recognize the role of economics in foreign external sector.

### **Course 9: Macro Economics**

**C01.** The students after the completion of this course will be able to contemplate and comprehend and recognize national income & social accounts.

**C02.** The students after the completion of this course will be able to contemplate and comprehend and recognize the role of economics in consumption function.

**C03.** The students after the completion of this course will be able to contemplate and comprehend and recognize the nature and characteristics of trade cycle.

**C04.** The students after the completion of this course will be able to contemplate and comprehend and recognize the role of economics in international trade.

**C05.** The students after the completion of this course will be able to contemplate and comprehend and recognize the functions of IMF, World Bank and WTO.

### **Course 10: Money, Banking and Public Finance**

**C01.** The students after the completion of this course will be able to contemplate and comprehend and recognize basic concepts of money.

**C02.** The students after the completion of this course will be able to contemplate and comprehend and recognize the role of economics in commercial banking.

**C03.** The students after the completion of this course will be able to contemplate and comprehend and recognize the meaning and scope of public finance.

**C04.** The students after the completion of this course will be able to contemplate and comprehend and recognize the sources of public revenue and taxation.

**C05.** The students after the completion of this course will be able to contemplate and comprehend and recognize public debt and financial administration.

### **Course 11: Development and Environmental Economics**

**C01.** The students after the completion of this course will be able to contemplate and comprehend and recognize economic growth and development.

**C02.** The students after the completion of this course will be able to contemplate and comprehend and recognize the relationship between economics and population problem & growth.

**C03.** The students after the completion of this course will be able to contemplate and comprehend and recognize Harrods and Domar growth model.

**C04.** The students after the completion of this course will be able to contemplate and comprehend and recognize the relationship between economics and environment & ecology.

**C05.** The students after the completion of this course will be able to contemplate and comprehend and recognize the concept of intellectual capital.

### **Course 12: Statistical Methods**

**C01.** The students after the completion of this course will be able to comprehend and apply statistical methods in economics.

**C02.** The students after the completion of this course will be able to comprehend and apply the measurement of central tendency in economics.

**C03.** The students after the completion of this course will be able to comprehend and apply the methods & tools of dispersion in economics.

**C04.** The students after the completion of this course will be able to comprehend and apply coefficient of correlation in economics.

**C05.** The students after the completion of this course will be able to comprehend and apply index number and measurement of trend in economics.

### **Course 13: Political Theory**

**C01.** The students after the completion of this course will be able to contemplate and comprehend and recognize the nature and scope of political theory.

**C02.** The students after the completion of this course will be able to contemplate and comprehend and recognize the concept of state, nation and civil society.

**C03.** The students after the completion of this course will be able to contemplate and comprehend and recognize the meaning of organs of government and theory of separation of power.

### **Course 14: Indian Government and Politics**

**C01.** The students after the completion of this course will be able to contemplate and comprehend and recognize the salient features in making of Indian Constitution.

**C02.** The students after the completion of this course will be able to contemplate and comprehend and recognize and appreciate the fundamental rights and duties and the directive principle of state policy.

**C03.** The students after the completion of this course will be able to contemplate and comprehend and recognize and evaluate the evolution, functioning and consequences of political parties in India.

### **Course 15: Western Political Thought**

**C01.** The students after the completion of this course will be able to contemplate and comprehend and recognize the nature, methods and significance of political thought.

**C02.** The students after the completion of this course will be able to contemplate and comprehend and recognize and appreciate various social and political ideas of political thinkers.

**C03.** The students after the completion of this course will be able to contemplate and comprehend and recognize and demonstrate the knowledge of political thinkers and political concepts.

## **Course 16:Comparative Politics and Government**

**C01.** The students after the completion of this course will be able to contemplate and comprehend and recognize and critically assess presidential and parliamentary system.

**C02.** The students after the completion of this course will be able to contemplate and comprehend and recognize the difference between federal and unitary systems of government.

## **Course 17:International Politics**

**C01.** The students after the completion of this course will be able to contemplate and comprehend and recognize and critically assess the international political system.

**C02.** The students after the completion of this course will be able to contemplate and comprehend and recognize the relations of India with neighboring countries.

## **Course 18:Public Administration**

**C01.** The students after the completion of this course will be able to contemplate and comprehend and recognize and critically assess the administrative system of the nation.

**C02.** The students after the completion of this course will be able to contemplate and comprehend and recognize various concepts in public administration.

## **Course 19: History of India from the Beginning to 1206 A.D.**

**C01.** The students after the completion of this course will be able to contemplate and comprehend and recognize India's geographical structure, historical and archeological sources, Stone Age, Harappa civilization.

**C02.** The students after the completion of this course will be able to contemplate and comprehend and recognize Vedic era, Mahajanapada era, Jainism, Buddhism, Alexander's Invasion, rise of Magadha, Mauraya dynasty.

**C03.** The students after the completion of this course will be able to contemplate and comprehend and recognize Chola dynasty, Pandian dynasty, Gupta dynasty, Pallava dynasty, Chalukya dynasty, Vardhan dynasty.

**C04.** The students after the completion of this course will be able to contemplate and comprehend and recognize historical relation between India & Srilanka, invasions by Mohammad Bin Kasim, Mohammad Ghazhvani, Mohammad Gauri, caste system, societal status of women – marriage system, sati system, pardah system, devdasi system, dasa system.

**C05.**Students will be able to demonstrate a breadth of training across historical time and space.Students will be able to develop an in-depth understanding of a field, theme or region.

**C06.**Students will be able to demonstrate an historical awareness of the diversity of the human experience across time and space.Students will be able to apply, assess and debate the major historical schools of thought, methodology and types of sources that historians use to make original arguments.Students will acquire basic historical research skills, and the effective use of libraries, archives, and databases.

**C07.**Students will learn to organize and express their thoughts clearly and coherently both in writing and orally.Students will be able to formulate historical arguments and communicate those arguments in clear and persuasive prose.

## **Course 20: World History from 1453 to 1789 A.D.**

**C01.** The students after the completion of this course will be able to contemplate and comprehend and recognize end of feudalism, Renaissance, religious reforms, rise of nation states – England, France, Spain, Russia, division of Poland.

**C02.** The students after the completion of this course will be able to contemplate and comprehend and recognize modern western world – revolution in commerce & trade - Capitalism, industrial revolution.

**C03.** The students after the completion of this course will be able to contemplate and comprehend and recognize beginning of colonialism, civil war in England, glorious revolution, rule of Louis 14<sup>th</sup>, America's war of Independence, French revolution and national assembly.

## **Course 21: History of India from 1206 to 1761 A.D.**

**C01.** The students after the completion of this course will be able to contemplate and comprehend and recognize Sultanate rule, Slave dynasty, Khilji dynasty, Tughlaq dynasty, Taimur's Invasion.

**C02.** The students after the completion of this course will be able to contemplate and comprehend and recognize Babur's Mughal dynasty, Sher Shah Suri administration, policies of Akbar to Aurangzeb, Mughal administration.

**C03.** The students after the completion of this course will be able to contemplate and comprehend and recognize socio-economic aspects of Sultanate era, socio-economic aspects of Mughal era, religious and cultural aspects of medieval era – Bhakti movement, Sufism, art & establishment in Sultanate era, art & establishment in Mughal era, education & literature in Sultanate era, education & literature in Mughal era.

**C04.** The students after the completion of this course will be able to contemplate and comprehend and recognize Vijaya Nagar Kingdom – Raja Krishnadeva Raya, Chhatrapati Shivaji kingdom, Battle of Panipat.

## **Course 22: World History from 1789 to 1871 A.D.**

**C01.** The students after the completion of this course will be able to contemplate and comprehend and recognize French revolution – National convention, Napoleon Bonaparte – rise & fall.

**C02.** The students after the completion of this course will be able to contemplate and comprehend and recognize Vienna Congress – combined system of Europe, Conservatism.

**C03.** The students after the completion of this course will be able to contemplate and comprehend and recognize revolutions of 1830 & 1848, Industrial revolution, England's Liberalism.

**C04.** The students after the completion of this course will be able to contemplate and comprehend and recognize reforms of 1832 & 1867, achievements of Napoleon III<sup>rd</sup>, rise of east, Greece's war of Independence, battle of Creamia, Russia – Czar Alexander II<sup>nd</sup>, unification of Italy, unification of Germany.

## **Course 23: History of India from 1761 to 1950 A.D.**

**C01.** The students after the completion of this course will be able to contemplate and comprehend and recognize expansion of British rule – war & diplomacy – battle of Karnataka, Plasi, Buxor, alliance treaties.

**C02.** The students after the completion of this course will be able to contemplate and comprehend and recognize reforms in British rule, Capitalism – fall of industries & trade, fall of Agriculture and farmer's revolution, land revenue system.



**C03.** The students after the completion of this course will be able to contemplate and comprehend and recognize Indian renaissance – Brahma samaj, Aryasamaj, Ram Krishna mission, Theosophical society, Aligarh movement.

**C04.** The students after the completion of this course will be able to contemplate and comprehend and recognize progress of western education and Press, social classification of farmers, labors, middle class and women, rise of Nationalism and revolution of 1857.

**C05.** The students after the completion of this course will be able to contemplate and comprehend and recognize Indian National Congress – Moderates & Extremists, Gandhi's freedom movement, Communalism – rise & progress, Subhash Chandra Bose & Azad Hind Fauj, India's Constitutional development – 1919-1935 – Federal system – Provincial autonomy, India's Independence and Indian Constitution.

#### **Course 24: World History from 1871 to 1945 A.D.**

**C01.** The students after the completion of this course will be able to contemplate and comprehend and recognize the third republic of France, Bismarck – foreign policy, William II<sup>nd</sup> – foreign policy, division of Africa.

**C02.** The students after the completion of this course will be able to contemplate and comprehend and recognize modernization of Japan, Japan-Russia war, Chinese revolution.

**C03.** The students after the completion of this course will be able to contemplate and comprehend and recognize Young Turk movement, Balkan war, World War – I.

**C04.** The students after the completion of this course will be able to contemplate and comprehend and recognize Russian revolution-1917, Warsaw Treaty.

**C05.** The students after the completion of this course will be able to contemplate and comprehend and recognize Italy's Fascism – Mussolini, Germany's Nazism – Hitler, Japan's Imperialism – Tajo, World War – II.

**C06.** The students after the completion of this course will be able to contemplate and comprehend and recognize United Nations Organization (UNO) – establishment, composition, achievements.

#### **Course 25: Introduction to Sociology**

**C01.** The students after the completion of this course will be able to contemplate and comprehend and recognize the nature and scope of sociology.

**C02.** The students after the completion of this course will be able to contemplate and comprehend and recognize the basic concepts of society, community, institution, association etc.

**C03.** The students after the completion of this course will be able to contemplate and comprehend and recognize different social groups.

**C04.** The students after the completion of this course will be able to contemplate and comprehend and recognize various social processes.

#### **Course 26: Contemporary Indian Society**

**C01.** The students after the completion of this course will be able to contemplate and comprehend and recognize the classical view about Indian Society and Varna Vyavastha.

**C02.** The students after the completion of this course will be able to contemplate and comprehend and recognize the structure and composition of Indian society.

### **Course 27:Society in India**

**C01.** The students after the completion of this course will be able to contemplate and comprehend and recognize various social problems like Casteism, Regionalism, and Communalism etc.

**C02.** The students after the completion of this course will be able to contemplate and comprehend and recognize various social problems like Dowry, Domestic Violence, Divorce etc.

**C03.** The students after the completion of this course will be able to contemplate and comprehend and recognize basic Institutions of society.

### **Course 28:Crime and Society**

**C01.** The students after the completion of this course will be able to contemplate and comprehend and recognize social structure and anomalies.

**C02.** The students after the completion of this course will be able to contemplate and comprehend and recognize meanings, causes, consequences and remedies of Terrorism.

### **Course 29:Sociology of Tribal Society**

**C01.** The students after the completion of this course will be able to contemplate and comprehend and recognize classification of tribal people.

**C02.** The students after the completion of this course will be able to contemplate and comprehend and recognize socio cultural profile of tribe.

**C03.** The students after the completion of this course will be able to contemplate and comprehend and recognize various tribal problems.

**C04.** The students after the completion of this course will be able to contemplate and comprehend and recognize various tribal movements.

### **Course 30:Social Research Methods**

**C01.** The students after the completion of this course will be able to contemplate and comprehend and recognize & apply social survey and research.

**C02.** The students after the completion of this course will be able to contemplate and comprehend and recognize & apply research design.

**C03.** The students after the completion of this course will be able to contemplate and comprehend and recognize & apply techniques of data collection and statistics.

### **Course 31:Physical Geography - Elements of Geomorphology**

**C01.** The students after the completion of this course will be able to contemplate and comprehend and recognize the effect of rotation and revolution the earth.

**C02.** The students after the completion of this course will be able to contemplate and comprehend and recognize the interior structure of the earth.

**C03.** The students after the completion of this course will be able to contemplate and comprehend and recognize theory regarding of origin of continents and oceans.

**C04.** The students after the completion of this course will be able to contemplate and comprehend and recognize the formation of rocks.

**C05.** The students after the completion of this course will be able to contemplate and comprehend and recognize the work of internal and external forces and their associated land forms.

### **Course 32: Introduction to Geography and Human Geography**

**C01.** The students after the completion of this course will be able to contemplate and comprehend and recognize the relationship of man and environment.

**C02.** The students after the completion of this course will be able to contemplate and comprehend and recognize the races of man kinds.

**C03.** The students after the completion of this course will be able to contemplate and comprehend and recognize the modes of life of pigmy, Bushman, Eskimos, Masai, Gond and Nagar.

### **Course 33: Physical Geography - Climatology and Oceanography**

**C01.** The students after the completion of this course will be able to contemplate and comprehend and recognize the weather and climate.

**C02.** The students after the completion of this course will be able to contemplate and comprehend and recognize the atmospheric moisture.

**C03.** The students after the completion of this course will be able to contemplate and comprehend and recognize the air masses and fronts.

**C04.** The students after the completion of this course will be able to contemplate and comprehend and recognize the surface configuration of the ocean floor.

**C05.** The students after the completion of this course will be able to contemplate and comprehend and recognize the circulation of oceanic water.

**C06.** The students after the completion of this course will be able to contemplate and comprehend and recognize the marine deposits, coral reefs.

### **Course 34: Regional Geography with Special Reference to North America**

**C01.** The students after the completion of this course will be able to contemplate and comprehend and recognize the regional concept, bases of regionalization.

**C02.** The students after the completion of this course will be able to contemplate and comprehend and recognize the structure, relief, climate and soils of North America.

**C03.** The students after the completion of this course will be able to contemplate and comprehend and recognize the mineral and energy resources, Forests and North America.

**C04.** The students after the completion of this course will be able to contemplate and comprehend and recognize the Agriculture belts, line stock and dairy farming in North America.

**C05.** The students after the completion of this course will be able to contemplate and comprehend and recognize the Industries and Regions of North America.

### **Course 35: Geography - Resources and Environment**

**C01.** The students after the completion of this course will be able to contemplate and comprehend and recognize the resources: meaning, nature and components.

**C02.** The students after the completion of this course will be able to contemplate and comprehend and recognize the distribution and utilization of resources.

**C03.** The students after the completion of this course will be able to contemplate and comprehend and recognize the man environment interrelations.

**C04.** The students after the completion of this course will be able to contemplate and comprehend and recognize the environmental conservation and management.

### **Course 36: Geography of India (with special reference to Chhattisgarh)**

**C01.** The students after the completion of this course will be able to contemplate and comprehend and recognize the geo-physical features of India.

**C02.** The students after the completion of this course will be able to contemplate and comprehend and recognize the drainage, climate of India.

**C03.** The students after the completion of this course will be able to contemplate and comprehend and recognize the resources, geo-cultural features of India.

**C04.** The students after the completion of this course will be able to contemplate and comprehend and recognize the geo-physical features, geo-cultural features of Chhattisgarh.

### **Course 37: Home Science - Extension Education**

**C01.** The students after the completion of this course will be able to describe, recognize and apply in Home Science - Concepts, goals and Areas of Home Science & their inter relationship with extension, Principles and methods of home science extension education general concepts of extension work, Objectives of extension education in qualities of extension workers, extension education process.

**C02.** The students after the completion of this course will be able to describe, recognize and apply principles of community development organization and function of community development, Role of home scientists in community development, programmes of extension education for community, programmes of community development at central, state, district, block and village level, Family planning programme, Community problems, child marriage, Dowry system, pardapratha, rural indebtedness unemployment.

**C03.** The students after the completion of this course will be able to describe, recognize and apply methods of learning - Discussion, demonstration, observation and their application to home science teaching, Extension Methods - their scope advantages and application, Scope and use in Home Science teaching, Extension Methods - their scope advantages and application.

**C04.** The students after the completion of this course will be able to describe, recognize and apply in attitude towards Home Science, Motivation towards Home Science, Application of Home Science towards improvement in family living, Job opportunities in Home Science, National and International agencies and their collaboration with Home Science, Official organization Home Science Association of India, W.H.O. FAG, CARE, ICAR, ICDS, ICSSR, ICMR, IRDP, Adult education.

**C05.** The students after the completion of this course will be able to describe, recognize and apply basic concept of curriculum planning, components of curriculum planning, implementation, evaluation and improvement required in the existing system of H.Sc. education policy and its relevance to H.Sc.

Programme planning-concept, principles, objectives and steps in programme planning.

### **Course 38: Fabric & Cloth Science**

**C01.** The students after the completion of this course will be able to describe, recognize and apply in fabric science and its testing, cloth weaving and its styling.

**C02.** The students after the completion of this course will be able to describe, recognize and apply textile ornamentation, selection of dyes and fabrics.

**C03.** The students after the completion of this course will be able to describe, recognize and apply textile & cloth printing and its types, tie & dye methods.

**C04.** The students after the completion of this course will be able to describe, recognize and apply laundry methods for various fabrics and cloth materials, stain removal.

**C05.** The students after the completion of this course will be able to describe, recognize and apply dress designing, fashion designing according to personality types, types of dress designing & ornamentation.

### **Course 39: Family Resource Management**

**C01.** The students after the completion of this course will be able to describe, recognize and apply in Home management process, role of home-maker, decision making.

**C02.** The students after the completion of this course will be able to describe, recognize and apply in Home decoration, interior designing, selection of colors for home, furniture selection, flower decoration.

**C03.** The students after the completion of this course will be able to describe, recognize and apply in family resource management, time management, man-power management, income management, family income and budget, family savings, standard of living, account / book keeping.

**C04.** The students after the completion of this course will be able to describe, recognize and apply in Kitchen planning & management, modernization of kitchen and kitchen space, use of alternative energy sources like solar, water distribution system, ventilation, lighting and storage.

**C05.** The students after the completion of this course will be able to describe, recognize and apply in simplification of work, process charts, tools and methods for saving time, energy, labor and money.

### **Course 40: Home Science - Human Development**

**C01.** The students after the completion of this course will be able to describe, recognize and apply in child growth and development, different aspects of growth, principles of development, factors affecting child development, heredity and environment.

**C02.** The students after the completion of this course will be able to describe, recognize and apply in stages of development - Physiology of pregnancy, Prenatal - Reproductive system, Prenatal development, Infancy, Early infancy, Babyhood, Childhood, Early childhood, Late childhood, Adolescence, Early adolescence, Late adolescence, prenatal growth and development - Sources of studying prenatal life, Stages of growth prenatal and development, Factors affecting prenatal and development growth, Mother's food, Health of mother, Narcotics, Age of parents, Effect of season, Emotion of mother.

**C03.** The students after the completion of this course will be able to describe, recognize and apply in effect of normal and caesarean delivery, Adjustment to new environment – Temperature, Respiration, Food consumption, Excretion, Physical development of infant-Physical proportion, Height, Weight, Pulse rate, Respiration rate, Bodytemperature, Frequency of hunger, Sensory development of infant – Light, Sound, Taste, Smell, Skin sensitivity, Motor activity of infants -Mass activities, Specific activities -Reflex

activities, Advantages of reflex action, Emotions of infants -Types of emotions, Significance of emotions, Characteristics of infant behavior- Dependency, Individual difference, Adjustment.

**C04.** The students after the completion of this course will be able to describe, recognize and apply in childhood : Adolescence, Characteristics of this stage, Factors affecting growth and development during childhood and adolescence, Physical growth height, weight, body proportion, teeth, Growth and development of internal organs – Nervous, Mental, Circulatory system, Digestive system, Respiratory system, Tissues and muscles systems, Development of motor abilities, Types of motor abilities, importance and characteristics of motor abilities in childhood, Development of motor skills, Types of motor skills, Delayed motor development.

**C05.** The students after the completion of this course will be able to describe, recognize and apply in development of emotional behavior-characteristics special emotions (affection, anger, fear, jealousy and worries) factors affecting emotional behavior, Social developments stages - during infancy, nursery school period, elementary school period, Factor affecting social development, Development of intelligence - Types according to Thorndike, theories regarding intelligence.

**C06.** The students after the completion of this course will be able to describe, recognize and apply in Play, work and play, theories of play, characteristics of children's play, types of play, factors effecting play and importance of play, Habits : Definition, Functions performed by habits, Habits and learning, Laws of habit formation-identical to laws of learning, Habit formation, Principles of habit formation, Rules for habit formation, Children delinquency-Types causes and remedial measures.

#### **Course 41: Food & Nutrition Science**

**C01.** The students after the completion of this course will be able to describe, recognize and apply the principles and components of nutrition like carbohydrates, lipids, proteins, minerals, vitamins & water and their sources, RDA, metabolism and deficiency.

**C02.** The students after the completion of this course will be able to describe, recognize and apply the principles and components of foods like food groups, cereals & grains, pulses & legumes, milk & dairy products, vegetables & fruits, egg, meat, fish & poultry, sugar, jiggery & honey, beverages & spices and their types, composition, nutrition, cooking and processing.

**C03.** The students after the completion of this course will be able to describe, recognize and apply the principles and components of food preservation, food spoilage, food toxicity, food adulteration, food hygiene and food storage.

**C04.** The students after the completion of this course will be able to describe, recognize and apply the principles and components of dietary management & menu planning, RDA, economics of menu planning, infant nutrition, pediatric nutrition, child nutrition, student & youth nutrition, nutrition during pregnancy and lactation, geriatric nutrition.

**C05.** The students after the completion of this course will be able to describe, recognize and apply the principles and components of therapeutic nutrition, therapeutic nutrition for - diabetics, under-weight & over-weight, anemic, vitamin deficiency, protein energy malnutrition, liver diseases, peptic ulcer, indigestion, diarrhea, constipation, hypertension.

#### **M.A. SOCIOLOGY – 4 Semesters Postgraduate programme**

##### **Programme Outcomes (PO)**

**P01.** Students would be able to think critically on societal issues and its national & global implications.

**P02.** Students would be able to shoulder social and ethical responsibilities in its true form and hence

develop into a better citizen.

**P03.** Students would be able to perceive social issues both objectively and subjectively.

**P04.** Students would be able to develop better social interaction skills for greater exchange of thoughts and ideas.

**P05.** The students will be able to think critically and take informed decisions after identifying the accuracy and validity of their assumptions and ideas from intellectual, organizational, and personal perspectives.

**P06.** The students will be able to communicate effectively through speaking, reading, writing and listening clearly in one Indian language and thereby express themselves to the world by connecting with different ideas, books, people, media and technology.

**P07.** The students will be able to interact socially and stimulate views, reconcile disagreements and help reach consensual conclusions.

**P08.** The students will be able to demonstrate compassionate social concern and act with a cognizant awareness of issues to contribute in civic life by volunteering impartially towards national development and thereby deliver effective citizenship.

**P09.** The students will be able to ethically recognize different value systems, understand the moral dimensions of individual decisions and accept responsibility for them.

**P010.** The students will be able to recognize the issues of environmental perspectives and appreciate sustainable development for long term environmental sustainability.

**P011.** The students will be able to engage themselves in life-long self-determining and learning in the comprehensive background of socio-technological changes for continued self-directed and life-long learning.

### **Programme Specific Outcomes (PSO)**

**PSO1.** The students after the completion of this programme will be able to contemplate and comprehend Classical Sociological Tradition. Students would be able to understand sociological phenomena of individuals, socio-ethnic structures, socio-cultural institutions and socio-economic inequality.

**PSO2.** The students after the completion of this programme will be able to contemplate and comprehend Philosophical and Conceptual Foundation of Social Research. Students would be able to effectively communicate and draft sociological concepts and theories associated with real life situations.

**PSO3.** The students after the completion of this programme will be able to contemplate and comprehend Social Change in India. Students would be able to perform analytical thinking on the basis of survey, census & research of qualitative and quantitative data & information.

**PSO4.** The students after the completion of this programme will be able to contemplate and comprehend Rural Sociology. Students would be able to become a thorough professional with social intellect so as to have career opportunities galore social welfare, rural development, public policy, governance, business, social foundations, NGO and academia.

**PSO5.** The students after the completion of this programme will be able to contemplate and comprehend

Classical Sociological Thinkers.

**PS06.**The students after the completion of this programme will be able to contemplate and comprehend and apply Quantitative Research Techniques in Sociology.

**PS07.**The students after the completion of this programme will be able to contemplate and comprehend Sociology of Development.

**PS08.**The students after the completion of this programme will be able to contemplate and comprehend Indian Rural Society.

**PS09.**The students after the completion of this programme will be able to contemplate and comprehend Classical Sociological Theories.

**PS010.**The students after the completion of this programme will be able to contemplate and comprehend Social Movements in India.

**PS011.**The students after the completion of this programme will be able to contemplate and comprehend Perspectives of Study to Indian Society.

**PS012.**The students after the completion of this programme will be able to contemplate and comprehend Industry and Society in India.

**PS013.**The students after the completion of this programme will be able to contemplate and comprehend Criminology.

**PS014.**The students after the completion of this programme will be able to contemplate and comprehend Modern Sociological Theories.

**PS015.**The students after the completion of this programme will be able to contemplate and comprehend Comparative Sociology.

**PS016.**The students after the completion of this programme will be able to contemplate and comprehend Contemporary issues in Industry.

### **Course Outcomes (CO)**

#### **Course 1: Classical Sociological Tradition**

**CO1.**Students will be able to make sense of modernity by identifying the emergence of sociology as a discipline.

**CO2.**Students will be able to understand critically and comparatively the methodological preferences of the founders of sociology.

#### **Course 2: Philosophical and Conceptual Foundation of Social Research**

**CO1.**Students will be able to recognize various issues in social research.

**CO2.** Students will be able to undertake research by selectively choosing and formulating a social research problem.

#### **Course 3: Social Change in India**

**CO1.**Students will be able to perceive disciplinary & inter-disciplinary ideas about the sociology and



social change in India.

**C02.** Students will be able to recognize the various factors of sociology and social change in India.

#### **Course 4: Rural Sociology**

**C01.** Students will be able to assimilate the theoretical and empirical knowledge of the past and present rural scenario and approach in rural sociology.

**C02.** Students will be able to identify with the various changes and development in rural sociology.

#### **Course 5: Classical Sociological Thinkers**

**C01.** Students will be able to explain the major themes of Marxian and Weberian perspectives on the social world.

**C02.** Students will be able to compare and differentiate between Marxian and Weberian perspectives on the social world.

#### **Course 6: Quantitative Research Techniques in Sociology**

**C01.** Students will be able to assess, interlink, correlate and use the measures of central tendency and measures of variation involved in social research.

#### **Course 7: Sociology of Development**

**C01.** Students will be able to distinguish development theory from development as project and relate project development to environmental degradation and social use/abuse.

#### **Course 8: Indian Rural Society**

**C01.** Students will be able to absorb the theoretical and empirical knowledge of the past and present rural scenario and intricacies of social fabric in India.

#### **Course 9: Classical Sociological Theories**

**C01.** Students will be able to recognize the role of a sociological theory in the application of conceptual frameworks in a social research progress.

**C02.** Students will be able to comprehend various sociological theories like structuralism and exchange theory.

#### **Course 10: Social Movements in India**

**C01.** Students will be able to understand the nature and types of social movements in India.

**C02.** Students will be able to comprehend the theoretical perspectives of social movements in India.

#### **Course 11: Perspectives of Study to Indian Society**

**C01.** Students will be able to explain the major methods and concepts used in the systematic study of Indian society, its social classes, its social fabric and its sociological issues.

#### **Course 12: Industry and Society in India**

**C01.** Students will be able to identify the trends of Industrial disputes in Indian society and their impacts on Indian social classes & sociology.

#### **Course 13: Criminology**

**C01.** Students will be able to familiarize with mainstream criminological theories.

**C02.** Students will be able to apply theories of crime and criminal justice to explain actual and hypothetical scenarios, behaviors and trends.

#### **Course 14: Modern Sociological Theories**

**C01.** Students will be able to debate on modern sociological theories.

**C02.** Students will be able to identify the origin and development of modern sociological theories.

#### **Course 15: Comparative Sociology**

**C01.** Students will be able to compare the historical and social context of emergence of sociology.

**C02.** Students will be able to identify various theoretical concerns in comparative sociology.

#### **Course 16: Contemporary issues in Industry**

**C01.** Students will be able to ascertain the history, objectives and functions of trade unionism in India.

**C02.** Students will be able to contemplate on Industrialization in the third world countries.

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### **M.A. Political Science – 4 Semesters Postgraduate programme**

#### **Programme Outcomes (PO)**

**P01.** Students would be able to think critically on political issues and its national & global implications.

**P02.** Students would be able to shoulder socio-political responsibilities in its true form and hence develop into a better citizen.

**P03.** Students would be able to perceive political issues both objectively and subjectively.

**P04.** Students would be able to develop better socio-political awareness and interaction skills for greater exchange of political thoughts and socio-political ideas.

**P05.** The students will be able to think critically and take informed decisions after identifying the accuracy and validity of their assumptions and ideas from intellectual, organizational, and personal perspectives.

**P06.** The students will be able to communicate effectively through speaking, reading, writing and listening clearly in one Indian language and thereby express themselves to the world by connecting with different ideas, books, people, media and technology.

**P07.** The students will be able to interact socially and stimulate views, reconcile disagreements and help reach consensual conclusions.

**P08.** The students will be able to demonstrate compassionate social concern and act with a cognizant awareness of issues to contribute in civic life by volunteering impartially towards national development and thereby deliver effective citizenship.

**P09.** The students will be able to ethically recognize different value systems, understand the moral dimensions of individual decisions and accept responsibility for them.

**P010.** The students will be able to recognize the issues of environmental perspectives and appreciate

sustainable development for long term environmental sustainability.

**P011.** The students will be able to engage themselves in life-long self-determining and learning in the comprehensive background of socio-technological changes for continued self-directed and life-long learning.

### **Programme Specific Outcomes (PSO)**

**PS01.** The students after the completion of this programme will be able to proactively contemplate and comprehend Indian Political Thought.

**PS02.** The students after the completion of this programme will be able to proactively contemplate and comprehend Indian Government and Politics.

**PS03.** The students after the completion of this programme will be able to proactively contemplate and comprehend Comparative Politics.

**PS04.** The students after the completion of this programme will be able to proactively contemplate and comprehend International Organization.

**PS05.** The students after the completion of this programme will be able to critically contemplate and comprehend Western Political Thought.

**PS06.** The students after the completion of this programme will be able to proactively contemplate and comprehend and actively participate in State Politics in India.

**PS07.** The students after the completion of this programme will be able to critically contemplate and comprehend Comparative Politics of Developing Countries.

**PS08.** The students after the completion of this programme will be able to critically contemplate and comprehend Indian Foreign Policy.

**PS09.** The students after the completion of this programme will be able to deeply contemplate and comprehend Principles of International Politics.

**PS010.** The students after the completion of this programme will be able to proactively contemplate and comprehend and critically gauge Public Administration – I.

**PS011.** The students after the completion of this programme will be able to proactively contemplate and comprehend and apply the principles of Research Methodology - I in political issues.

**PS012.** The students after the completion of this programme will be able to proactively and critically contemplate and comprehend and perform a participatory role in Government and Politics of Chhattisgarh.

**PS013.** The students after the completion of this programme will be able to critically contemplate and comprehend Contemporary of International Politics.

**PS014.** The students after the completion of this programme will be able to proactively contemplate and comprehend and critically gauge Public Administration – II.

**PS015.**The students after the completion of this programme will be able to proactively contemplate and comprehend and apply the principles of Research Methodology - II in political issues.

**PS016.**The students after the completion of this programme will be able to critically and proactively contemplate and comprehend Political Ideologies and Modern Political Thought and choose the best suitable one for individual's, society's, state's and nation's uprising.

### **Course Outcomes (CO)**

#### **Course 1: Indian Political Thought**

**CO1.**The students will be able to critically contemplate and comprehend on Indian Political thought and philosophical thinkers.

**CO2.**The students will be able to critically contemplate and comprehend about the new thinkers like Nehru, DeendayalUpadhyay, AbdulKalam etc.

#### **Course 2: Indian Government and Politics**

**CO1.**The students will be able to critically explain the politics, governance and authority of India.

**CO2.**The students will be able to critically assess the information about racism, regionalism, communalism, criminalization and corruption and be refrained from such politics and politicians.

#### **Course 3: Comparative Politics**

**CO1.**The students will be able to critically judge the useful information about the probable consequences of different political order.

**CO2.**The students will be able to critically assess the constitutions or party systems of different countries and voluntarily participate to bring positive changes in Indian political atmosphere.

#### **Course 4: International Organization**

**CO1.**The students will be able to critically decide upon the scope and subject matter of International relation.

**CO2.**The students will be able to critically assess the basic concepts like Globalization in contemporary world order.

#### **Course 5: Western Political Thought**

**CO1.**The students will be able to critically understand the dominant feature of ancient western political thought.

**CO2.**The students will be able to critically assess features of medieval political thought.

#### **Course 6: State Politics in India**

**CO1.**The students will be able to critically understand the State Legislature and State Executives.

**CO2.**The students will be able to critically assess the demand for State Autonomy.

#### **Course 7: Comparative Politics of Developing Countries**

**CO1.**The students will be able to critically understand the classification of Government.

**C02.**The students will be able to critically assess the political development, political Elites, Political socialization, Political Modernization.

### **Course 8: Indian Foreign Policy**

**C01.**The students will be able to critically ascertain the increasing India's influence in the international platform.

**C02.**The students will be able to critically assess India's foreign policy and India's engagement with the rest of the world.

**C03.**The students will be able to critically examine India's foreign relations with her neighbors.

### **Course 9: Principles of International Politics**

**C01.**The students will be able to critically assess the evolution of International politics.

**C02.**The students will be able to critically contemplate the theories of International politics.

**C03.**The students will be able to critically examine the nature and developments in International politics.

### **Course 10: Public Administration – I**

**C01.**The students will be able to critically ascertain the concept of administration in India.

**C02.**The students will be able to critically compare traditional approach and new approaches.

**C03.**The students will be able to critically examine the structure and operation of public organizations.

### **Course 11: Research Methodology – I**

**C01.**The students will be able to critically ascertain and apply various research methods used in social science by drawing upon a range of theoretical and empirical research in survey studies of political science.

**C02.**The students will be able to critically examine the theoretical aspects comprising an exploration of various theories, concepts and term that are part of the research methodology in survey studies of political science.

### **Course 12: Government and Politics of Chhattisgarh**

**C01.**The students will be able to critically ascertain and comprehend the main determining factors and features of state politics in Chhattisgarh.

**C02.**The students will be able to critically assess the various national movements in Chhattisgarh and major social reformist and political leaders.

### **Course 13: Contemporary of International Politics**

**C01.**The students will be able to critically ascertain and comprehend the fundamental theories and themes of contemporary International politics.

**C02.**The students will be able to critically think, analyze information, and express their ideas clearly in the practice of International politics.

### **Course 14: Public Administration – II**

**C01.**The students will be able to critically ascertain the importance of public administration in India.

**C02.**The students will be able to critically examine the characteristics of public administration in India.

**C03.**The students will be able to critically assess the operations of public organizations in India.

### **Course 15: Research Methodology – II**

**C01.**The students will be able to perform the critical review of published political science literature and research for advancement of new research and development in political science.

**C02.**The students will be able to critically examine the research methodology used in survey studies of political science.

**C03.**The students will be able to critically analyze the data used in survey studies of political science and comprehend the data based conclusive interpretations for political survey studies in India.

### **Course 16: Political Ideologies and Modern Political Thought**

**C01.**The students will be able to perform the critical comprehension, review and assessment of various concepts like Individualism, Existentialism, Feminism, Liberalism, Socialism etc prevalent in national and international political scene.

**C02.**The students will be able to critically contemplate, assess and review of political thinkers like Antonio Gramsci, Jean Paul Sartre and their political views and opinions.

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## **M.Com. – 4 Semesters Postgraduate programme**

### **Programme Outcomes (PO)**

**PO1.**The Master of Commerce (M.Com.) semester wise programme offered by the College accomplishes the students to cash in on the opportunities and overcome the challenges in the field of commerce by providing systematic learning of managerial economics, advance accounting, income tax law & account, statistical analysis, corporate legal framework, business economics, specialized accounting, tax planning & management, advanced statistics, business law, management concept, organizational behavior, advanced cost accounting, management accounting, accounting for managerial decisions, principles of marketing, advertising & sales management, marketing research, international marketing and research project work. The students after the completion of this programme become well prepared to take up various professional assignments, engagements and jobs in medium to large scale business establishments, industries, commercial set-ups and other public/private commercial sectors like banking, stock-exchange, insurance, NBFCs as accountants, investment bankers, business analysts, finance officers, business / financial advisors etc.

**PO2.** The students after the completion of this programme will be enabled to overcome the challenges and cash in the opportunities in the field of commerce.

**PO3.**The students after the completion of this programme will become well prepared to take up various professional assignments, engagements and jobs in medium to large scale business establishments, industries, commercial set-ups and other public/private commercial sectors like banking, stock-exchange, insurance, NBFCs as accountants, investment bankers, business analysts, finance officers, business / financial advisors etc.

**PO4.** The students will be able to think critically and take informed decisions after identifying the accuracy and validity of their assumptions and ideas from intellectual, organizational, and personal perspectives.

**P05.** The students will be able to communicate effectively through speaking, reading, writing and listening clearly in one Indian language and thereby express themselves to the world by connecting with different ideas, books, people, media and technology.

**P06.** The students will be able to interact socially and stimulate views, reconcile disagreements and help reach consensual conclusions.

**P07.** The students will be able to demonstrate compassionate social concern and act with cognizant awareness of issues to contribute in civic life by volunteering impartially towards national development and thereby deliver effective citizenship.

**P08.** The students will be able to ethically recognize different value systems, understand the moral dimensions of individual decisions and accept responsibility for them.

**P09.** The students will be able to recognize the issues of environmental perspectives and appreciate sustainable development for long term environmental sustainability.

**P010.** The students will be able to engage themselves in life-long self-determining and learning in the comprehensive background of socio-technological changes for continued self-directed and life-long learning.

### **Programme Specific Outcomes (PSO)**

**PS01.** The students after the completion of this programme will become well versed with Managerial Economics.

**PS02.** The students after the completion of this programme will become well versed with Advance Accounting.

**PS03.** The students after the completion of this programme will be able to understand Income Tax Law and Account.

**PS04.** The students after the completion of this programme will be able to understand Statistical Analysis.

**PS05.** The students after the completion of this programme will be able to identify a Corporate Legal Framework.

**PS06.** The students after the completion of this programme will be able to understand the Business Economics.

**PS07.** The students after the completion of this programme will be able to understand the essentials of Specialized Accounting.

**PS08.** The students after the completion of this programme will be able to understand the essentials of Tax Planning and Management.

**PS09.** The students after the completion of this programme will be able to understand the essentials of Advanced Statistics.

**PS010.** The students after the completion of this programme will be able to understand the principles of Business Law.

**PS011.** The students after the completion of this programme will be able to understand the essentials of Management Concept.

**PS012.** The students after the completion of this programme will be able to understand the fundamentals of Organizational Behaviour.

**PS013.** The students after the completion of this programme will be able to understand the principles of Advance Cost Accounting.

**PS014.** The students after the completion of this programme will be able to recognize the procedures of Management Accounting.

**PS015.** The students after the completion of this programme will be able to understand the essentials, principles and procedures of Accounting for Managerial Decisions.

**PS016.** The students after the completion of this programme will be able to understand the Principles of Marketing.

**PS017.** The students after the completion of this programme will be able to understand the procedures of Advertising and Sales Management.

**PS018.** The students after the completion of this programme will be able to understand the essentials and fundamentals of Marketing Research.

**PS019.** The students after the completion of this programme will be able to understand the essentials and fundamentals of International Marketing.

**PS020.** The students after the completion of this programme will be able to do Project Work in various fields of commerce studies.

### **Course Outcomes (CO)**

#### **Course 1: Managerial Economics**

**CO1.** The students after the completion of this course will be able to comprehend with the basic concepts, terms & provisions of managerial economics.

**CO2.** The students after the completion of this course will be able to determine the prices under different market forms.

**CO3.** The students after the completion of this course will be able to comprehend with the concepts of inflation, slowdown, deflation, stagflation and recession in an economy.

#### **Course 2: Advance Accounting**

**CO1.** The students after the completion of this course will be able to comprehend with the basic accounting structure of companies.

**CO2.** The students after the completion of this course will be able to find out how a company can dissolve by liquidating its assets or through bankruptcy and insolvency.

**CO3.** The students after the completion of this course will be able to comprehend with the viable and operational accounting format of companies.

#### **Course 3: Income Tax Law and Account**

**CO1.** The students after the completion of this course will be able to compute total income and define tax compliances & strictures.

**CO2.** The students after the completion of this course will be able to file IT return on individual basis.



**C03.** The students after the completion of this course will be able to comprehend with the amendments made from time to time in finance Act.

#### **Course 4: Statistical Analysis**

**C01.** The students after the completion of this course will be able to independently calculate basic statistical parameters applied in commerce and accounting.

**C02.** The students after the completion of this course will be able to comprehend probability theory and probability distributions in relation to general statistical analysis done in commerce and accounting.

#### **Course 5: Corporate Legal Framework**

**C01.** The students after the completion of this course will be able to comprehend the commercial and accounting concepts of a company and its shares for public listings.

**C02.** The students after the completion of this course will be able to comprehend the use of M/A and prospectus in a company of commerce and accounting.

**C03.** The students after the completion of this course will be able to get acquainted with the negotiable instruments (Cheque, Holder and Holder in due course).

#### **Course 6: Business Economics**

**C01.** The students after the completion of this course will be able to comprehend the causes and consequences of business cycle.

**C02.** The students after the completion of this course will be able to comprehend the factors in commerce and accounting that contribute to and detract from long-term economic growth.

#### **Course 7: Specialized Accounting**

**C01.** The students after the completion of this course will be able to ascertain the knowledge of Banking and insurance companies accounts.

**C02.** The students after the completion of this course will be able to comprehend the systems of double account system and maintenance accounts.

**C03.** The students after the completion of this course will be able to get acquainted with the basic concepts of royalty and Investments account.

#### **Course 8: Tax Planning and Management**

**C01.** The students after the completion of this course will be able to ascertain the concepts of TDS and advance payment of tax.

**C02.** The students after the completion of this course will be able to comprehend the provisions of various taxes rebates& reliefs and procedure to file IT return.

**C03.** The students after the completion of this course will be able to get acquainted with the concept of recovery and refund of tax.

#### **Course 9: Advanced Statistics**

**C01.** The students after the completion of this course will be able to ascertain the concepts of the statistical decision theory & statistical estimations in commerce and accounting.

**C02.** The students after the completion of this course will be able to comprehend the provisions of

statistical quality control & the procedures of sampling methods in commerce and accounting.

**C03.** The students after the completion of this course will be able to interpret the meaning of the calculated statistical indicators in commerce and accounting.

#### **Course 10: Business Law**

**C01.** The students after the completion of this course will be able to ascertain the consumer rights under consumer protection Act 1986.

**C02.** The students after the completion of this course will be able to comprehend the international trade concepts used in global market decisions.

**C03.** The students after the completion of this course will be able to comprehend and interpret the legal environments for security markets.

#### **Course 11: Management Concept**

**C01.** The students after the completion of this course will be able to ascertain the objectives of managerial reporting.

**C02.** The students after the completion of this course will be able to fulfill the reporting requirements at different levels of management.

**C03.** The students after the completion of this course will be able to get acquainted with the objectives of managerial reporting and reporting requirements.

**C04.** The students after the completion of this course will be able to comprehend and interpret the requirements of management.

#### **Course 12: Organizational Behaviour**

**C01.** The students after the completion of this course will be able to develop an understanding regarding the role of leaders in decision making process.

**C02.** The students after the completion of this course will be able to fulfill the requirements of communication skills at different levels of leadership.

**C03.** The students after the completion of this course will be able to analyze the challenges and opportunities in the field of organizational behavior.

#### **Course 13: Advance Cost Accounting**

**C01.** The students after the completion of this course will be able to develop the impact knowledge of basic cost concepts, elements of cost, ascertainment of materials and labor cost.

**C02.** The students after the completion of this course will be able to analyze the various methods of costing and their applications.

**C03.** The students after the completion of this course will be able to determine various levels of material cost i.e. – reorder level, minimum level, EOQ for managing working capital.

#### **Course 14: Management Accounting**

**C01.** The students after the completion of this course will be able to get acquainted with a separate branch of accounting.

**C02.** The students after the completion of this course will be able to analyze the management accounting

and its relevance in a business organization.

**C03.** The students after the completion of this course will be able to familiarize with the management control system.

**C04.** The students after the completion of this course will be able to fulfill the requirements of management sense and responsibilities.

### **Course 15: Accounting For Managerial Decisions**

**C01.** The students after the completion of this course will be able to ascertain the applicability of certain techniques of management i.e. – Target costing, ABC costing, Value chain analysis.

**C02.** The students after the completion of this course will be able to analyze the essentials of capital budgeting and use different techniques of capital budgeting.

**C03.** The students after the completion of this course will be able to familiarize with contemporary issues in management.

**C04.** The students after the completion of this course will be able to fulfill the requirements of accounting management sense and responsibilities.

### **Course 16: Principles of Marketing**

**C01.** The students after the completion of this course will be able to ascertain the applicability of certain principle techniques and fundamentals of marketing.

**C02.** The students after the completion of this course will be able to analyze product life-aide.

**C03.** The students after the completion of this course will be able to familiarize with the significance & contribution of marketing to the business enterprise.

### **Course 17: Advertising and Sales Management**

**C01.** The students after the completion of this course will be able to ascertain the applicability of concepts of advertising, media of advertising & its influence on buying habits of consumers.

**C02.** The students after the completion of this course will be able to promote sales by applying the methods and techniques of sales promotion.

### **Course 18: Marketing Research**

**C01.** The students after the completion of this course will be able to ascertain the applicability of concepts of marketing research.

**C02.** The students after the completion of this course will be able to apply & promote marketing research procedures, methods & techniques.

**C03.** The students after the completion of this course will be able to ascertain the significance, importance and requirements for introduction of new products and new markets.

### **Course 19: International Marketing**

**C01.** The students after the completion of this course will be able to ascertain the applicability of concepts of EXIM policy, International transport system & International product life cycle.

**C02.** The students after the completion of this course will be able to apply & promote themselves for employment as well as self employment in international businesses dealing with variety of innovative

products & services.

### **Course 20: Project Work**

**C01.** The students after the completion of this course will be able to ascertain the applicability of concepts of Research and Research Methodology.

**C02.** The students after the completion of this course will be able to represent data in tabular and graphic manner for convenient interpretation.

**C03.** The students after the completion of this course will be able to familiarize with Research and Research problems.

**C04.** The students after the completion of this course will be able to develop skills to write Research papers.

**C05.** The students after the completion of this course will be able to comprehend and apply the quantitative methods of Research.

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## **M.A. Economics – 4 Semesters Postgraduate programme**

### **Programme Outcomes (PO)**

**PO1.** The M.A. Economics semester wise programme offered by the College accomplishes the students to cash in on the opportunities and overcome the challenges in the field of economics by providing systematic learning of Economics – Micro, Macro, Quantitative, Indian, Industrial, Research, Indian policy, Labor, Growth, International, Public, Environmental, Demography, Development & Planning, Social sector and Viva-Voce. The students after the completion of this programme become well prepared to take up various professional assignments, engagements and jobs in medium to large scale business establishments, industries, commercial set-ups and other public/private commercial sectors like banking, stock-exchange, insurance, NBFCs as accountants, investment bankers, business analysts, finance officers, business / financial advisors, policy making etc.

**PO2.** The students after the completion of this programme will be enabled to overcome the challenges and cash in the opportunities in the field of economics.

**PO3.** The students after the completion of this programme will become well prepared to take up various professional assignments, engagements and jobs in medium to large scale business establishments, industries, commercial set-ups and other public/private commercial sectors like banking, stock-exchange, insurance, NBFCs as accountants, investment bankers, business analysts, finance officers, business / financial advisors, policy making etc.

**PO4.** The students will be able to think critically and take informed decisions after identifying the accuracy and validity of their assumptions and ideas from intellectual, organizational, and personal perspectives.

**PO5.** The students will be able to communicate effectively through speaking, reading, writing and listening clearly in one Indian language and thereby express themselves to the world by connecting with different ideas, books, people, media and technology.

**PO6.** The students will be able to interact socially and stimulate views, reconcile disagreements and help

reach consensual conclusions.

**P07.** The students will be able to demonstrate compassionate social concern and act with cognizant awareness of issues to contribute in civic life by volunteering impartially towards national development and thereby deliver effective citizenship.

**P08.** The students will be able to ethically recognize different value systems, understand the moral dimensions of individual decisions and accept responsibility for them.

**P09.** The students will be able to recognize the issues of environmental perspectives and appreciate sustainable development for long term environmental sustainability.

**P010.** The students will be able to engage themselves in life-long self-determining and learning in the comprehensive background of socio-technological changes for continued self-directed and life-long learning.

### **Programme Specific Outcomes (PSO)**

**PSO1.** The students after the completion of this programme will become well versed with Micro Economics-I.

**PSO2.** The students after the completion of this programme will become well versed with Macro Economics-I.

**PSO3.** The students after the completion of this programme will be able to understand Quantitative Methods.

**PSO4.** The students after the completion of this programme will be able to understand Indian Economy.

**PSO5.** The students after the completion of this programme will be able to identify Industrial Economics.

**PSO6.** The students after the completion of this programme will be able to understand the Micro Economics-II.

**PSO7.** The students after the completion of this programme will be able to understand the essentials of Macro Economics-II.

**PSO8.** The students after the completion of this programme will be able to understand the essentials of Research Methodology and Computer Application.

**PSO9.** The students after the completion of this programme will be able to understand the essentials of Indian Economic Policy.

**PSO10.** The students after the completion of this programme will be able to understand the principles of Labor Economics.

**PSO11.** The students after the completion of this programme will be able to understand the essentials of Economics of Growth.

**PSO12.** The students after the completion of this programme will be able to understand the fundamentals of International Trade.

**PSO13.** The students after the completion of this programme will be able to understand the principles of Public Finance.

**PSO14.** The students after the completion of this programme will be able to recognize the procedures of Environmental Economics.

**PS015.** The students after the completion of this programme will be able to understand the essentials, principles and procedures of Demography.

**PS016.** The students after the completion of this programme will be able to understand the principles of Economics of Development and Planning.

**PS017.** The students after the completion of this programme will be able to understand the procedures of International Economics.

**PS018.** The students after the completion of this programme will be able to understand the essentials and fundamentals of Public Economics.

**PS019.** The students after the completion of this programme will be able to understand the essentials and fundamentals of Economics of Social Sector.

**PS020.** The students after the completion of this programme will be able to do Viva-Voce in various fields of commerce studies.

## **M.A. Home Science – 4 Semesters Postgraduate programme**

### **Programme Outcomes (PO)**

**P01.** The M.A. Home Science semester wise programme offered by the College accomplishes the students to cash in on the opportunities and overcome the challenges in the field of Home Science by providing systematic learning of basics of food & nutrition, clinical & therapeutic nutrition, extension education, research methodology, textile & clothing, textile designing, statistics & computer application, human development, nutrition of women & children, health & fitness, resource management, food preservation, and entrepreneurship. The students after the completion of this programme become well prepared to take up various professional assignments, engagements and jobs in medium to large scale business establishments, industries, commercial set-ups and other public/private commercial sectors like hospitals, hotels, food processing sector, nutrition & dietetics sector, hospitality sector, pedagogy & education sector, research & development sector, health & fitness sector, policy making, fashion sector, textile sector etc.

**P02.** The students after the completion of this programme will be enabled to overcome the challenges and cash in the opportunities in the field of home science.

**P03.** The students after the completion of this programme will become well prepared to take up various professional assignments, engagements and jobs in medium to large scale business establishments, industries, commercial set-ups and other public/private commercial sectors like hospitals, hotels, food processing sector, nutrition & dietetics sector, hospitality sector, pedagogy & education sector, research & development sector, health & fitness sector, policy making, fashion sector, textile sector etc.

**P04.** The students will be able to think critically and take informed decisions after identifying the accuracy and validity of their assumptions and ideas from intellectual, organizational, and personal perspectives.

**P05.** The students will be able to communicate effectively through speaking, reading, writing and listening clearly in one Indian language and thereby express themselves to the world by connecting with different ideas, books, people, media and technology.

**P06.** The students will be able to interact socially and stimulate views, reconcile disagreements and help reach consensual conclusions.

**P07.** The students will be able to demonstrate compassionate social concern and act with cognizant

awareness of issues to contribute in civic life by volunteering impartially towards national development and thereby deliver effective citizenship.

**P08.** The students will be able to ethically recognize different value systems, understand the moral dimensions of individual decisions and accept responsibility for them.

**P09.** The students will be able to recognize the issues of environmental perspectives and appreciate sustainable development for long term environmental sustainability.

**P010.** The students will be able to engage themselves in life-long self-determining and learning in the comprehensive background of socio-technological changes for continued self-directed and life-long learning.

**P011.** The students will become well equipped with scientific & technical education of theoretical and practical knowledge of interdisciplinary subjects.

**P012.** The students will be able to improve their life quality through all round personality development by learning essential life skills.

**P013.** The students will be able to perform in varied professional careers leading to their socio-economic development through financial upliftment and improvement in socio-economic status.

**P014.** The postgraduate programme in Home Science is aimed at providing the students necessary inputs so as to set forth the task of bringing about new and innovative ideas/concepts so that the formulated model curricula in Home Science becomes in tune with the changing scenario and incorporate new and rapid advancements and multi-disciplinary skills, societal relevance, global interface, self-sustaining and supportive learning.

**P015.** It is desired that postgraduate programme in Home Science besides teaching the basic concepts of Home Science should in addition have broader vision for students so that the students therefore be exposed to societal interface of Home Science and the role of Home Science in the development of food, nutritional, textile and human development sciences & technologies.

### **Programme Specific Outcomes (PSO)**

**PSO1.** The students after the completion of this programme will become well versed with Basics of Food & Nutrition.

**PSO2.** The students after the completion of this programme will become well versed with Clinical & Therapeutic Nutrition.

**PSO3.** The students after the completion of this programme will be able to understand Extension Education -I.

**PSO4.** The students after the completion of this programme will be able to understand Research Methodology.

**PSO5.** The students after the completion of this programme will be able to identify Textile & Clothing.

**PSO6.** The students after the completion of this programme will be able to understand the Textile Designing.

**PSO7.** The students after the completion of this programme will be able to understand the essentials of Extension Education -II.

**PSO8.** The students after the completion of this programme will be able to understand the essentials of

Statistics & Computer Application.

**PS09.** The students after the completion of this programme will be able to understand the essentials of Human Development -I.

**PS010.** The students after the completion of this programme will be able to understand the principles of Human Development -II.

**PS011.** The students after the completion of this programme will be able to understand the essentials of Nutrition of Women & Children.

**PS012.** The students after the completion of this programme will be able to understand the fundamentals of Health & Fitness.

**PS013.** The students after the completion of this programme will be able to understand the principles of Resource Management-I.

**PS014.** The students after the completion of this programme will be able to recognize the procedures of Resource Management-I.

**PS015.** The students after the completion of this programme will be able to understand the essentials, principles and procedures of Food Preservation.

**PS016.** The students after the completion of this programme will be able to understand the principles of Entrepreneurship.

## **M.A. Hindi – 4 Semesters Postgraduate programme**

### **Programme Outcomes (PO), Programme Specific Outcomes (PSO), Course Outcomes (CO)**

#### **एम. ए. हिन्दी – प्रथम सेमेस्टर**

##### **प्रथम पत्र – हिन्दी साहित्य का इतिहास**

इतिहास ऐतिहासिक घटनाओं और वृत्तान्तों का लेख-जोख ही नहीं प्रस्तुत करता, इतिहास का निमाण भी करता है। इतिहास का स्वरूप का समझना सरल कार्य नहीं है। इतिहास में मनुष्य का संबंध पुराना है। हमारा संस्कार, हमारा व्यवहार हमारी संस्कृति, हमारी नीति अतीत से अनसुलझ एक अनवरत धारा है। अतीत का परिप्रेक्ष्य में वर्तमान का समझ सकते हैं। अतः विद्यार्थियों के लिए यह सर्वाधिक उपयोगी पाठ्यक्रम है।

##### **द्वितीय पत्र – प्राचीन एवं मध्यकालीन काव्य**

प्राचीन एवं मध्यकालीन काव्य में समाज का दिनां निर्दिष्ट करने के साथ धार्मिक एवं ऐतिहासिक तथ्यों से लोगों के अवगत करना साहित्य का मुख्य उद्देश्य है। काव्य में भक्तिकाल, जहाँ लोक जागरण को स्वर देने वाला है, वहीं रीतिकाल अपनलौकिक – श्रृंगारिक परिदृश्य में तत्कालीन सामाजिक, सांस्कृतिक, राजनीतिक स्थितियों को बेलोस अभिव्यक्ति करता है। अतः श्रृंगार, संस्कृति, विचार, मानवता काव्यरूपता, लौकिकता, पारलौकिकता आदि दृष्टियों से इसका अध्ययन आवश्यक है।

##### **तृतीय पत्र – द्वितीययुगों एवं छायावादी काव्य**

साहित्य समय का सहचर होता है समाज में आत बदलाव का साक्षी होता है। साहित्य सिर्फ समुन्नत समाज की कल्पना नहीं करता बल्कि सर्वांगीण विकास जिसमें समता, स्वतंत्रता और बहुता का भाव हो। साहित्य की आधुनिकता, लोक व



कलीन, इतिहास व वर्तमान सभी का ध्यान में रखकर चलता है। तथ्य और सत्य दोनों की आराधना साहित्य का विषय होता है। साहित्य का चिंतन मनन का केंद्र में मानव कल्याण का बीच छिपे हुए इन समस्त स्थितियों से विद्यार्थियों को अवगत कराना है ताकि उनमें चेतना का संचार हो, उनमें लेखन की भावना जागृत हो।

## चतुर्थ प्रश्न पत्र – हिन्दी गद्य साहित्य

आधुनिक काव्य गद्य की विधाओं पर आश्रित है। यह मानव के मन और मस्तिष्क में अनेक प्रयोजनों को प्रस्तुत करता है। उन्हें भावनाओं के आधार पर काव्य का सृजन होता है। इसमें चिंतन, मनन और रागात्मकता का प्रस्तुतीकरण को लक्ष्य होता है। प्राकृतिक परिवेश में काव्य वैभव का भाव एवं कला पक्ष इसमें गद्य साहित्य की विविध विधाओं में अत्यन्त विंगल बन गया है। हमारी सांस्कृतिक चेतना का इसमें अत्यन्त प्रभावित किया है। साहित्य के विद्यार्थी इसमें लक्षित होते हैं।

## एम. ए. हिन्दी – द्वितीय सेमेस्टर

### तृतीय प्रश्न पत्र – आधुनिक काव्य – 2 (प्रगतिवाद, प्रयागवाद, नई कविता एवं समकालीन कविता)

साहित्य एक सामाजिक स्थापना है। इसलिए समाज में परिवर्तन का अर्थ है साहित्य के स्वरूप और दृष्टिकोण में परिवर्तन। केवल हिन्दी कविता पर ध्यान देते हैं उसमें वीरगाथा काल, भक्तिकाल, रीतिकाल, भारतद्वय युग, द्विवेदी युग, छायावाद, प्रगतिवाद, नई कविता एवं समकालीन कविता जैसी विविध – काव्य दृष्टियाँ परिलक्षित होती हैं। जीवनानुभव और उन पर पड़े हुए तत्कालिक दबावों के कारगर ढंग से व्यक्त करने के लिए कविता आवश्यक है। अतः यह पाठ्यक्रम विद्यार्थियों के लिए उपयोगी है।

### चतुर्थ प्रश्न पत्र – आधुनिक गद्य साहित्य (उपन्यास, निबंध एवं कहानियाँ)

छात्रों में नाटक एवं एककी कला रसास्वाद को दृष्टि विकसित हुई। इनमें हिन्दी नाटक का स्वरूप, तत्व आदि मानदंडों के आधार पर समीक्षा की क्षमता निर्मित हुई। उनमें हिन्दी के प्रतिनिधि उपन्यास, निबंध, कहानीकारों का परिचय प्राप्त हुआ। उनकी कहानियाँ एवं नाटका में निहित तत्वों से अवगत हुए। ओछाइयाँ एवं बुराइयों को समझने की उनमें चेतना जागृत हुई।

### पंचम प्रश्न पत्र – उत्तर मध्यकाल से आधुनिक काल तक

छात्रों में हिन्दी साहित्य के विकास के समझ पैदा करना। उत्तर मध्यकाल की परिस्थितियों एवं प्रवृत्तियों से परिचित कराना। स्वाधीनता आंदोलन की पृष्ठभूमि में साहित्य की भूमिका को परिलक्षित करना। गद्य लेखन के प्रादुर्भाव एवं महत्व से भी छात्रों को परिचित कराना इस पाठ का उद्देश्य है। इस पाठ के माध्यम से विद्यार्थी आधुनिक काल के साहित्य को प्रमुख रचनाओं एवं प्रवृत्तियों को जान एवं समझ सकेंगे।

### षष्ठम प्रश्न पत्र – मध्यकालीन काव्य

विद्यार्थियों को मध्ययुग के कवियों के योगदान का परिचय प्राप्त हुआ। विद्यार्थियों में साहित्यिक कृतियों के मूल्य एवं सौन्दर्य को देखने की दृष्टि विकसित होती है। इनमें स्तुति एवं भक्ति का काव्य सौंदर्य को जानकारों को प्राप्त होता है। छात्रों को हिन्दी साहित्य के प्रतिनिधि रचनाकारों का महत्व प्रदेय, पंभाव आदि का ज्ञान प्राप्त हुआ।

## एम. ए. हिन्दी – तृतीय सेमेस्टर

### प्रथम प्रश्न पत्र – साहित्य के सिद्धांत तथा आलोचना शास्त्र

भारतीय काव्य शास्त्रीय आचार्य हित चिंतन के पक्षधर रहे हैं। साहित्य मानवीय मूल्यों की स्थापना व प्रतिष्ठा करने का बेजोड़ माध्यम है। वाट्सअप, फेसबुक, ई – मेल के छद्म व सतही प्रेम के दौर में साहित्य ही तो बचा है जो मानवीय प्रेमवस्तु को

मजबूती प्रदान करता है। साहित्य विद्यार्थियों में संवेदना के भाव को जगाता है राष्ट्रीय व अंतर्राष्ट्रीय मंचों पर हिन्दी भाषा व साहित्य की महत्ता व उपयोगिता को बताते हैं। हिन्दी साहित्य के विद्यार्थी जो स्नातकोत्तर कक्षाओं में अध्ययनरत हैं उनके ाोध, प्र'न, जिज्ञासा आदि के लिए यह उपयोगी सिद्ध होगा।

द्वितीय प्र'न पत्र — भाषा — विज्ञान

विद्यार्थियों को भाषा विज्ञान के माध्यम से हिन्दी भाषा के व्यवस्थित और यथोचित प्रयोग का ज्ञान प्राप्त कराना। छात्राओं में भाषा विज्ञान के वैज्ञानिक अध्ययन की दृष्टि से वि'व में फैली विभिन्न भाषाओं का तुलनात्मक, ऐतिहासिक कालक्रमानुसार अध्ययन कराना उद्दे'य है। जिससे विद्यार्थियों को विविध रूपों का ज्ञान प्राप्त हो सके। विद्यार्थियों को भाषा के स्वरूप परिभाषा और वि'शेषताओं की जानकारी प्राप्त कराना इसका उद्दे'य है।

तृतीय प्र'न पत्र — कामकाजी हिन्दी और पत्रकारिता

मानव की सामाजिक आव'यकताओं और जीवन में भाषा का वि'शेष महत्व है। कामकाजी हिन्दी में राजभाषा का वि'शेष प्रयोजन है। ज्ञान—विज्ञान के क्षेत्र में ज्ञानवर्धक सामग्री का प्रयोग किया जा सकता है। ासकीय एवं अ'ासकीय कार्यों की भाषा संबंधित ाब्दावली का सुन्दर प्रयोग करके इसे सरल बनाया जा सकता है। स्नातकोत्तर के विद्यार्थियों के लिए यह पाठ्यक्रम उपयोगी व सार्थक है।

चतुर्थ प्र'न पत्र — भारतीय साहित्य

मनुष्य विविध दे'ाकाल में भाषा, साहित्य और संस्कृति का सृजन और विकास करता आया है जिसमें अनेक प्रकार की विविधताएँ, भिन्नताएँ और समानताएँ पाई जाती हैं, इन भिन्नताओं और समानताओं का अध्ययन आव'यक है। वि'व साहित्य में जो कुछ भी श्रेष्ठतम उसका अध्ययन मनन और प्रचार करना चाहिए ताकि प्राणवान और सत्य विचारों की धारा प्रवाहित की जा सके। इसलिए पाठ्यक्रम उपयोगी है।

एम. ए. हिन्दी – चतुर्थ सेमेस्टर

प्रथम प्र'न पत्र – हिन्दी आलोचना तथा समीक्षा ास्त्र

हिन्दी आलोचना के अंतर्गत ास्त्रीय, व्यक्तिवादी, ऐतिहासिक, प्रभाववादी, समाज की मनोवि'लेशनवादी तुलनात्मक काव्यधाराओं का वर्णन समाहित है जो हिन्दी आलोचना का औचित्य प्रदर्ित करता है। हिन्दी आलोचना तथा समीक्षा'ास्त्र के अध्ययन से विद्यार्थियों को समझने व परखने का अवसर मिलता है। जिससे सामाजिक और सांस्कृतिक परिवे'ा को समझने में विद्यार्थियों को सहायता मिलती है।

द्वितीय प्र'न पत्र – हिन्दी भाशा

लोक मानस भाशा का व्यवहार अपनी जरूरतों के मुताबिक करता है। संविधान में हिन्दी भाशा को राजभाशा का दर्जा दिया गया है। कोई भी भाशा जनता के जितने करीब होती है, उनमें जनभाशा बनने की उतनी ही सामर्थ्य होती है। भाशा का विकास जनता की राश्ट्रीय भावना के विकास का प्रतीक है। अतः यह पाठ्यक्रम विद्यार्थियों के विकास में बहुत उपयोगी होगा।

तृतीय प्र'न पत्र – मीडिया – लेखन एवं अनुवाद

आज के युग में मीडिया लेखन का अत्यधिक महत्व है। मीडिया के माध्यम दे'ा विदे'ा में होने वाली घटनाओं, क्रियाकलापों

एवं गतिविधियों की जानकारी ाीघ्र प्राप्त होती है। ज्ञान विज्ञान तकनीकी, अनुसंधान, सामाजिक, आर्थिक, धार्मिक, सांस्कृतिक, राजनीतिक समस्त क्षेत्रों में घटित होने वाली समस्त प्रकार की जानकारी मीडिया के माध्यम से विद्यार्थियों को

प्राप्त होती है। उनमें चेतना जागृत होती है। यह पाठ्यक्रम छात्राओं के लिए उपयोगी है।

चतुर्थ प्र' न पत्र – छत्तीसगढ़ी भाशा

जनपदीय भाशा एवं साहित्य के माध्यम से छात्राओं को छत्तीसगढ़ की गौरवगाथा, ऐतिहासिकता, पौराणिकता का ज्ञान कराना है। छत्तीसगढ़ी साहित्य की सामाजिक, धार्मिक, सांस्कृतिक गतिविधियों का जीवंत दस्तावेज है। जनपदीय भाशा साहित्य के माध्यम से छत्तीसगढ़ी भाशा की विकास यात्रा का विस्तृत ज्ञान कराता है। विद्यार्थी छत्तीसगढ़ी साहित्य एवं साहित्यकारों का अध्ययन कर यहाँ की रीति-रिवाज, रहन-सहन, खान-पान, संस्कृति का ज्ञान प्राप्त कराता है।