TARA DEVI HARAKH CHAND KANKARIA JAIN COLLEGE

Program Outcome (PO) - Course Outcome (CO) of BBA/B.Com/B.A/B.Sc. of CCF 2022 (under NEP 2020)

➢ Department of Business Administration:

- **Program Outcome**

BBA (Hons.)	To ensure holistic development of the students by providing an academic environment as well as practical exposure which is conducive to the formation of corporate leaders of tomorrow
	An Understanding of Business Functions and its Operations
	Developing Critical and Analytical Thinking Abilities
	Developing Personality and Inter personal skills conducive for corporate world
	Acquire qualitative and quantitative skills to consolidate, synthesize, and analyze business information

- **Course Outcome**

Course Code and Course Name	Course Outcomes
SEMESTER 1	
BBAA101CC1 Principles of Management & Organizational Behavior	To acquaint the students with the fundamentals of managing business
	To understand individual and group behavior at work place so as to improve the effectiveness of an organization.
BBAA102 M1 Business Ethics	The objective of this paper is to make the students more clear about the importance of ethics in business
	The paper covers aspects of good corporate governance and corporate social responsibility.
BBAA103 MD1 Financial Institutions and Markets	The objective of this paper is to introduce students to the different aspects and components of financial Institutions and financial markets.
	The course will enable the students to take rational decision in

	financial environment
BBAA104 AEC1 Business Communication/ Communicative English	To familiarize students with the process and elements of corporate communication
	To familiarize students with the tools of communication and also teach about drafting various corporate communications messages
BBAA105 SEC1 Information Technology in Business	To introduce the concepts of worksheets , concepts of DBMS, security and encryption, cyber-crime as well as using formula and functions to familiarize students with various information technology tools used in business
SEMESTER 2	
BBAA201CC2 Statistics for Business Decisions	To familiarize the students with various Statistical Data Analysis tools that can be used for effective decision making
BBAA202M2 Macro Economics	The course covers determination of and linkages between major economic variables; level of output and prices, inflation, interest rates and exchange rates.
	The course is designed to study the impact of monetary and fiscal policy on the aggregate behavior of individuals.
BBAA 203MD2 Entrepreneurship Concept , Theory & Practices	The course provides students with a solid introduction to the entrepreneurial process of creating new businesses
	To make understand the role of Creativity and innovation in Entrepreneurial start-ups and manage family owned businesses.
BBAA 204SEC2: Digital Empowerment	Understand the fundamentals of digital technologies and their impact on society
	Enhance online communication and collaboration skills
	Promote digital citizenship and responsible online behavior
BBAA204AEC2 Case Analysis, Copy Writing and Content Writing in English	The course delves into developing a base of knowledge about cases.
	Further the course is intended to develop the knowledge regarding copywriting and content writing
BBAA207VA4 Hands on Machine Learning	To familiarize students about the application of Linear Regression, Logistic regression in Python Language
	To teach students about coding in python Language

➢ Department of Commerce

- **Program Outcome**

✓ This four-year commerce program, aligned with the New Education Policy (NEP), prepares students for diverse careers in accounting, taxation, banking, insurance, and corporate law.

✓ The curriculum focuses on fostering effective and efficient work practices, equipping students to thrive in a dynamic business landscape.

✓ Graduates will be well-prepared for various roles, such as Tax Consultant, Audit Assistant, Financial Services Professional.

✓ The program also cultivates essential managerial skills, enabling students to assume key roles as entrepreneurs, managers, and consultants, and to approach critical decision-making with confidence.

✓ With a strong foundation, graduates can pursue advanced studies, such as M.Com, or professional certifications, including CA, MBA, CMA, ICMA, and CS, enhancing their career prospects in the competitive job market.

✓ The program emphasizes skill development through practical training, critical thinking, and innovation, ensuring that graduates are not only knowledgeable but also adaptable and ready to meet the demands of the evolving business environment.

✓ This program involves a paper on Value-oriented Life-skill Education (VOLS), essential for developing personal and professional skills like self-awareness, resilience, and ethical decision-making, which are crucial for students' career success and integrity in the field.

✓ From this program students will demonstrate and understand major concepts of Environment in association with multidisciplinary subjects.

✓ Students will be capable of self –directed learning aimed at personal development and for improving knowledge.

- **Course Outcome**

Paper Code & Paper Name	Course Outcome
Semester I	
Major Paper I Financial Accounting I	✓ Gain a comprehensive understanding of various accounting concepts, conventions, and principles, and their practical application in the business environment. ✓ Explore emerging trends in accounting and analyze their implications for financial reporting and decision-making. ✓ Acquire knowledge about single entry systems and learn the process of converting single entry accounting into a double entry system. ✓ Understand the conceptual framework of Goods and Services Tax (GST) and its impact on financial transactions and reporting. ✓ Familiarize Students with various accounting standards and their application in preparing final accounts and inventory valuation

Minor Paper I Principles and Practice of Management	✓ Recognize opportunities and challenges associated with strategy-making in dynamic business environments. ✓ Identify how various factors—such as environment, strategy, structure, culture, tasks, people, and outputs—inform and influence managerial decisions. ✓ Analyze how managers can effectively formulate and implement strategies to achieve organizational goals. ✓ Understand the planning process within an organization, including goal-setting, resource allocation, and performance measurement. ✓ Demonstrate the ability to direct, lead, and communicate effectively within teams and across the organization.
IDC/MDC 1 Micro Economics	✓ The students will be able to understand the concept of business economics and its practical applications while taking decision. ✓ Conceptualise demand and supply, and understand law of demand and law of supply. ✓ Studying production function and its importance and analyse law of variable proportion. ✓ To enable students to understand internal and external economies of scale. ✓ Understanding different types of cost and revenue of a business. ✓ Identify various types of market structure and its pricing mechanism and understanding various types of pricing of a product. ✓ Enabling students to understand various theories of rent, wages, profit and interest.

SEC Paper I Entrepreneurship Development	✓ Discover personal strengths and weaknesses in qualities and traits essential for successful entrepreneurship within a founding team context. ✓ Identify any gaps in required entrepreneurial qualities and traits, and develop a personal action plan to address and close those gaps. ✓ Cultivate an entrepreneurial mindset by enhancing business focus, creative thinking, and risk-taking abilities. ✓ Practice essential skills and traits for entrepreneurs, including problem-solving, creativity, communication, business mathematics, sales, and negotiation. ✓ Identify and list various methods for establishing new ventures, including different business models and structures. ✓ Understand the importance of generating innovative business ideas and the role of entrepreneurship policies in fostering business growth. ✓ Explain the significance of small and medium-sized enterprises (SMEs) in driving economic growth and job creation. ✓ Analyse the financial requirements of a business during the start-up phase, including funding sources and budgeting. ✓ Evaluate the potential for future success in the entrepreneurial process by analysing trends, challenges, and opportunities.
Semester II	
Major Paper II Cost Accounting I	✓ Understand how costs are allocated to specific products or services, enabling accurate pricing and profitability analysis. ✓ Learn to identify and evaluate the differences between actual costs and targeted costs, fostering effective cost management. ✓ Understand the role of cost data in management decision-making processes and its impact on organizational performance. ✓ Gain insights into the concepts of profit maximization and cost minimization, applying these principles to enhance financial performance. ✓ Critically assess relevant costs and provide recommendations to support effective decision-making.

Minor Paper II Marketing Management & Human Resource Management	✓ To understand various concepts related to communication design, emphasizing key aspects of effective marketing strategies. ✓ To familiarize students with marketing research methodologies and their utility in applying fundamental marketing principles in their careers. ✓ Analyse the importance of buyer behaviour to enhance skills in segmenting, targeting, and positioning within marketing strategies. ✓ Evaluate marketing opportunities by creating and utilizing suitable models for strategic decision-making. ✓ To understand the steps necessary to design and implement effective employee training and development programs. ✓ Recognize the importance of manpower planning and conduct job analysis to optimize workforce efficiency. ✓ Apply theoretical and practical aspects of human resource management to formulate effective business strategies. ✓ Evaluate personnel functions concerning their role in policy formulation and the creation of diverse HRM strategies.
IDC/MDC 2 Macro Economics	✓ Understand the concept national income and identify various difficulties in calculating it. ✓ Enabling students to understand the basics about money and its origin and types and its functions. ✓ To enable students to have insights about inflation and deflation- its causes, consequences and remedies. ✓ To enable students to understand the functions of commercial banks and credit creation & investment policy of commercial banks and to understand the concept and functions of central banking and various methods of credit control.
SEC Paper II Information Technology & Its Application in Business	✓ To understand the key concepts in information technology and its relevance to business. ✓ Enhancement of business processes and decision-making through IT. ✓ Collection and interpretation of business data using IT tools. ✓ Principles of e-commerce and development of digital marketing strategies. ✓ Enhancement of teamwork and communication within a business context. ✓ Role of IT strategy in achieving business objectives and governance frameworks.
VAC (Paper II) Value-oriented Life-skill Education	✓ Develop a deeper understanding of oneself, including strengths, areas for growth, and values. ✓ Recognize, express, and manage emotions effectively, enhancing workplace relationships and communication skills valuable in business. ✓ Build resilience to handle the stresses of the professional world, from tight deadlines to high-stakes decisions, maintaining a positive outlook and adaptability.

	✓ Strengthen communication and teamwork, essential for thriving in collaborative business environments and networking. ✓ Gain practical tools for setting goals, managing time, and handling stress, crucial for balancing academic and future career demands. ✓ Make responsible, values-driven decisions, enhancing ethical judgment and trustworthiness in business contexts. ✓ Embrace practices that support mental well-being, ensuring a strong, confident foundation for entrepreneurship, leadership, and personal growth.
Summer Internship	✓ Apply theoretical knowledge to real-world situations. ✓ Enhance communication skills. ✓ Develop teamwork abilities. ✓ Gain insights into industry practices. ✓ Understand workplace culture. ✓ Identify and solve workplace challenges. ✓ Develop innovative solutions. ✓ Identify strengths and areas for improvement. ✓ Explore various career paths. ✓ Set informed career goals.

➢ Department of Botany:

• Program Outcome

- ✓ Develop in depth understanding in various fields of plant science
- ✓ Motivate students for higher education and research
- ✓ Identify plants and their ethnobotanical, pharmaceutical importance and application in industries
- ✓ Develop Job Prospects and Entrepreneurship
- ✓ Laboratory skills, instrumentation, skill enhancement
- ✓ Social wellbeing, environment, sustainability, nature and conservation
- ✓ Presentations, report writing, project writing, scientific article writing, calculations and chart, model preparations
- ✓ Discipline, time management, application of theoretical knowledge , survey, testing in field study

• Course Outcome

Course Name & Course Code	Course Outcome
Semester I	
Plant diversity (Bot-H-CC1-1- Th & P)	This paper: (1) Make students aware about the diversity in various life forms of plant kingdom. (2) Give an idea about the simplest group of plants - algae and fungi. It would familiarize students not only with salient features but also provide an insight about their economic importance. (3) It also gives an idea about how different life forms have evolved from simpler to complex ones. (4) Understand the sequential evolutionary study ranging from bryophytes to pteridophytes and gymnosperms to angiosperms with their salient features and economic importance. Practical classes would help students to (1) identify different plant groups (2) learn the morphology of diverse plant forms (3) field study would infuse interest and help to learn the habitat and occurrence in nature

Mushroom cultivation technology (Bot-H-SEC-1- Th & P)	This course help students to enhance their skill on mushroom culture technology with the study of (1) classification of mushroom - edible & poisonous mushroom (2) nutritional and medicinal value of mushroom (3) cultivation technology of mushroom (4) storage of mushroom (5) different food preparation from mushroom (6) current overview of mushroom production in world (7) marketing of mushroom in India and abroad (8) mushroom diseases and management strategies (9) Research centres - regional & national level. Practical work would help them to (1) prepare fungal media (2) learn fungal tissue culture (3) cultivate mushroom or prepare spawn and promote entrepreneurship
Semester II	
Plant systematics (Bot-H-CC2-2 Th & P)	This paper deals with a highly advanced and evolved group of plants i.e. angiosperms. The systematics part of this paper is in fact the backbone of the study of botany. Without having knowledge of taxonomy and species concepts, no further research work can be pursued. The identification, nomenclature and classification of the concerned plants make the first step of any research work in botany. Plant systematics help students to get detailed knowledge about (1) phases of taxonomy (2) different systems of classification of angiosperms (3) numerical taxonomy (4) data sources in taxonomy (5) Diagnostic features of some prominent families in dicots and monocots. Practical includes (1) work out of specimen from different families (2) spot identification of common wild plants (3) different botanical excursion familiarize the students with the

	natural habitats & morphological features of angiospermic plants and give scope to collect & preserve specimens , in form of herberia for future study
Biofertilizer and Biopesticides (Bot-H-SEC-2-Th & P)	Students would learn (1) to develop their understanding on the concept of bio fertilizer and microbes used as bio fertilizers (2) To be able to know VAM and its future aspects as in crop improvement. (3) to help them understand the role of action and application of nitrogen fixing bacteria, nutrient solubilising microbes and PGPR as bio fertilizers (4) Learn the potency of fungi and bacteria as bio pesticides. Practical is application based and promotes skill enhancement. (1) They learn to isolate and (2) Culture different microbes that can be used as bio fertilisers and bio pesticides. This promotes entrepreneurship among the learning class.
BOTD (IDC 2) PLANTS AROUND US	The basic outcome of this paper is to: (1) Make students aware about the diversity in various life forms of plant kingdom. (2) Give an idea about the plant groups' algae fungi bryophyte pteridophyte, gymnosperm, and angiosperms. (3) it also gives an idea about the economically important plants and their names and uses (4) Understand the role of plants in ecology and its importance in society. Practical classes would help students to (1) identify different plant groups (2) learn the morphology of diverse plant forms (3) Understand the different parts of a flower through dissection.

➢ Department of Computer Science

- **Program Outcome**

✓ Knowledge in Hardware and Electronics Devices
✓ Proficient in Assembly, Procedural as well as Object Oriented Programming and Scripting Language
✓ Knowledge in Computer Networking Communications, Resource management algorithms
✓ Knowledge in handling Scientific Calculations in Computer
✓ Proficient in Image Compression, 2D Transformation, Video and Image Editing
✓ Proficient in Database Management and Query Language vii. Knowledge in various Cryptographic Algorithms viii. Proficient in Software Models and Data Flow Diagram

- **Course Outcome:**

Course Code & Course Name	Course Outcome
Semester I	
DSC/CC-1 COMPUTER FUNDAMENTALS AND DIGITAL LOGIC	Students should be able to: 1. Understanding of computer fundamentals, generations, classification of computers and brief understanding of languages used. 2. Understand the principles and terminology of digital logic. 3. Analyze and simplify boolean expressions using boolean algebra. 4. Design and implement combinational and sequential logic circuits, including flip-flops and registers using logic gates. 5. Utilize discrete logic gates and integrated circuits on breadboards for the design of digital circuits to enhance hands-on experience and practical understanding.
SEC – 1 DIGITAL VISUALIZATION USING SPREADSHEETS	Students should be able to: 1. Understand the purpose and potential applications of spreadsheets. 2. Use of formulas, functions, and calculations to perform data visualization. 3. Understanding and utilization of advanced spreadsheet features such as data validation, conditional formatting, and pivot tables. 4. Create informative reports and summaries on data. 5. Design visually appealing charts and graphs to represent data. 6. Apply spreadsheet skills to real-world scenarios and problem-solving; role of spreadsheets in data analysis.
MINOR COMPUTER FUNDAMENTALS AND DIGITAL LOGIC	Students should be able to: 1. Understanding of computer fundamentals, generations, classification of computers and brief understanding of languages used. 2. understand the principles and terminology of digital logic; 3. Analyze and simplify boolean expressions using boolean algebra. 4. Design and implement combinational and sequential logic circuits, including flip-flops and registers using logic gates. 5. Utilize discrete logic gates and integrated circuits on breadboards for the design of digital circuits to enhance hands-on experience and practical understanding.
Semester II	
	Students will be able to:

DSC/CC-2 PROBLEM SOLVING USING C	1. Develop efficient algorithms for solving a problem. 2. Use the various constructs of a programming language viz. conditional, iteration and recursion. 3. Implement the algorithms in “c” language. 4. Use simple data structures like arrays, stacks and linked list in solving problems. 5. Handling file in “c”.
SEC-2 WEB DEVELOPMENT	Students will be able to: 1. Understand the basics of web development and the role of HTML and CSS. 2. Create well-structured HTML documents using proper tags and elements. 3. Apply CSS to style web pages, including layout, typography, colors, and images. 4. Implement responsive design techniques to ensure optimal display on different devices. 5. Incorporate multimedia elements, such as images, videos, and audio, into web pages. 6. Understand best practices for organizing and maintaining code in web development projects. 7. Develop and deploy a basic website using HTML and CSS.
MINOR PROBLEM SOLVING USING C	Students will be able to: 1. Develop efficient algorithms for solving a problem. 2. Use the various constructs of a programming language viz. conditional, iteration and recursion. 3. Implement the algorithms in “c” language. 4. Use simple data structures like arrays, stacks and linked list in solving problems. 5. Handling file in “c”.
SEC-2 ARTIFICIAL INTELLIGENCE (AI for Everyone)	Students will be able to: 1. Define and explain the fundamental concepts and sub fields of AI. 2. Identify real-world applications of AI across various industries. 3. Analyze the ethical, social, and economic implications of AI. 4. Recognize the potential of AI to drive innovation and transformation in different domains.
SEC-2 DIGITAL EMPOWERMENT	Students will be able to: 1. Use ICT and digital services in daily life. 2. Develop skills to communicate and collaborate in cyberspace using social platforms, teaching/learning tools. 3. Understand the significance of security and privacy in the digital world. 4. Evaluate ethical issues in the Cyber world.
CVAC-2 HANDS ON MACHINE LEARNING	Students will be able to: 1. Demonstrate the basic concepts of Machine Learning. 2. Demonstrate various types of machine learning algorithms and their pros and cons. 3. Implement these algorithms with the help of large datasets using Python Programming Language. 4. Use algorithms and techniques to solve real-world problems using Machine Learning.

➢ Department of English

- **Program Outcome**
  - The learner will develop an understanding of the major concepts, theoretical perspectives and recent areas of studies in English literature.
  - The student will be able to exercise critical thinking in understanding a text and relating them to real life situations.
  - The student will develop a critical approach towards the socio-political and cultural contexts through the study of literary texts.
  - The learner will develop effective communicative skills that will be of advantage in and outside the classroom
  - It will help the student to demonstrate professional competencies in other areas of contemporary relevance and application such as digital learning, creative writing and translation and in research areas.
  - The student will be able to demonstrate competencies required for employment in avenues related to the discipline.

- **Course Outcome:**

Semester I

Course Code and Course Name	Course Outcome
DSC1 and MDC1 HISTORY OF ENGLISH POETRY (FROM ELIZABETHAN AGE TO MODERN PERIOD)	1. To help the students to understand the range, significance and scope of English poetry and the growth and evolution of the language. 2. To acquaint the students with various literary movements, genres and poets that are held to be the representatives of their times. 3. It helps the students to assess the way socio cultural and historical occurrence influence the literary production of a particular period.
SEC1 Skill Enhancement Course (For Major and MDC students)	1. To help the students to understand the significance of business communication in any organized job sector and also how to write formal letter to bank, post office, newspaper and so on. 2. To make students understand how business communication is not only relevant for a working professional but for anyone in need of communication of various types. 3. Help the students to write their curriculum vitae for applying to any jobs or even the letters of acceptance or rejection afterwards and to acquaint the students with e-correspondence, which in today's world is an absolute necessity
AEC-1 Ability Enhancement Course	1. To familiarize the students with Indian and World English Literature. 2. To inculcate in the students social values, ethics and sense of the aesthetic. 3. To enhance the English reading, writing and vocabulary skills.

Semester II

Course Code and Course Name	Course Outcome
DSC2 and MDC2 HISTORY OF ENGLISH PROSE (FROM ELIZABETHAN AGE TO MODERN PERIOD)	1. To help the students to understand the range, significance and scope of English prose and the growth and evolution of the language. 2. To acquaint the students with various literary movements, genres and prose writers that are held to be the representatives of their times. 3. It helps the students to assess the way socio cultural and historical occurrence influence the literary production of a particular period.
SEC2 Skill Enhancement Course (For Major and MDC students)	To understand what necessitate in an academic writing and how is it different from any other creative piece of writing. 2. To acquaint the students with ethical work, free from plagiarism. 3. To enhance the ability of creative writing in students
AEC-2 Ability Enhancement Course	1. To familiarize the students with Indian and World English Literature. 2. To inculcate in the students social values, ethics and sense of the aesthetic. 3. To enhance the English reading, writing and vocabulary skills.

➢ Department of Food & Nutrition

- **Program outcome**

1. Utilize knowledge from the food science, human physiology, nutritional biochemistry, public health, therapeutic diet and food microbiology as a basis for understanding the role of food and nutrients in health and disease prevention.
2. To develop skill and confidence to make informed decisions about healthy diet in health and disease.
3. To apply the knowledge of food microbiology, sanitation and hygiene in food production and service
4. To understand the working and management of the dietary departments of the various organizations.
5. To gain concepts of food safety and quality managements, national and international food laws and regulations as well as importance of food engineering and packaging in food industry.
6. To make the students familiar with the technologies of food processing and preservation of plant and animal foods, cereals, pulses, oilseeds, fruits vegetables, spices, meat, fish, poultry, sea food, milk and dairy products.
7. Explore the science of therapeutic nutrition and learn to design specific dietary plans for individuals with various medical conditions, such as diabetes, cardiovascular diseases, and obesity.
8. Gain insights into food processing techniques, food preservation, and the impact of technology on the nutritional value of food.
9. Gather knowledge with the process of planning and management of public health nutrition programme.

Course Code and Course Name	Course Outcome
Semester I	
DSC/CORE (MAJOR) (C-1)-BASIC FOOD SCIENCE- I	1. To gain knowledge about some basic definitions. 2. To learn about the composition of food, chemistry of macro nutrients, role of each nutrients in our body and their interaction. 3. To understand the functional aspects of food components and to study their role in food 4. To gain knowledge about digestion & absorption of macro nutrients of foods (proteins, carbohydrates, lipids).
SEC 1 Nutrition and Health Education	1. To gain knowledge about various nutrition education method for our local community to improve nutritional status condition, it helps people in rural and urban areas with adequate information, skills and motivation to procure and to consume appropriate diets. 2. To learn various methods of assessment of nutritional status. 3. To distinguish between the different levels of malnutrition in the community. 4. It gives knowledge about importance of communication method in nutrition education.

Semester II	
DSC/CORE (MAJOR)- (C-2) BASIC FOOD SCIENCE- II	1.To gain knowledge about the role of micro nutrients (vitamins and minerals) in foods. 2. To know about sources and functions of different vitamins and minerals & their interactions. 3. Students will be able to know about different vitamins & minerals deficiency diseases, excess intake, their transport, and metabolism. 4.to learn about functions of water & how water balance is maintained in our body
SEC 2 Nutritional Epidemiology and Public health	1. To understand nutritional epidemiology and its role in health and disease. 2. To gain knowledge about the food and nutrition security in India. 3. To develop the knowledge about importance of different types of visual aids suitable to public health nutrition programmes. 4. To gain knowledge about various communicable and non-communicable disease in the community, their risk factors and knowledge about preventive measures such as sanitation, hygiene 5. To get the knowledge of various health data of the country and community people
IDC Basic Nutrition and Food Science	1. Students will learn about the different types of food and food groups, nutritional imbalances, and chronic diseases. 2. Students will learn about the nutrient needs of different age groups, including infants, children, adolescents, adults, pregnant and lactating females. 3. Students will learn how to establish dietary patterns to promote health and reduce the impact of chronic diseases. 4. Students will learn about the structure and classification of different components of food.
CVAC 2.2 Common Value added Course (CVAC) on: "Lifestyle Diseases and Their Prevention"	1. Students will learn about the lifestyle diseases and distinguish them from other health conditions. 2. Students will identify common lifestyle-related diseases, their risk factors, and prevalence. 3. They will analyze the impact of nutrition, physical activity, sleep, and stress management on health. 4. Students will be able to evaluate the role of public health initiatives in promoting healthier lifestyles. 5. Students will also learn about a personalized plan for improving their own lifestyle and preventing lifestyle diseases.

➢ Department of Geography

• Program Outcome

Develop a strong foundation of Geotectonics, Geomorphology, Biogeography, Soil Geography and instrumentation techniques and their applications to examine and appreciate the inherent complexity of landscape systems at the micro level.

- ✓ Understanding the history of the subject; over viewing ancient and contemporary geographical thought and its relationship with modern concepts of empiricism, positivism, radicalism, behaviouralism, idealism etc.
- ✓ Knowledge of demographic patterns, cultural traits, distribution of natural resources, factors of economic growth and development will help to understand the Geo-political situation of the Modern World.
- ✓ Sensitization and awareness about the hazards and disasters to which the subcontinent is vulnerable, and their management.
- ✓ Develop advanced level concepts of Remote Sensing and Geographical Information System and their applications in present-day situations.
- ✓ Improving research abilities through reviewing literature, framing the research problems, preparing a project report collecting physical and socio-economic data, data processing and analysis.
- ✓ Recognize, synthesize and evaluate diverse sources of knowledge, arguments and approaches pertinent to exploring human-environment problems and inculcate a sense of environmental ethics that focus research and concerns on sustainability.

- **Course Outcome**

Course Code and Course Name	Course Outcome
Semester I	
GEOM-H-CC01-1-Th – Physical Geography & GEOM-H-CC01-1-P – Physical Geography Lab	● Develop an idea about scale and draw different types of scale like linear, diagonal and vernier. ● Understand the work of internal and external forces and their associated landforms. ● Understand the types of winds and composition of the atmosphere. Atmospheric pressure of belts. ● Gain knowledge about the character and profile of different soil types. ● Gathering knowledge about plant adaptation and distribution according to water availability.

	● Gain knowledge about topographical maps to identify drainage basins with their ordering. ● Assessing the nature, impact and management of major natural and man-made hazards affecting the Indian subcontinent.
GEOM-H-SEC01-1-Th_ Methods in Geography	● Develop a strong foundation in creating research questions, formulating hypotheses, and choosing appropriate methodologies for geographical research. ● Gain proficiency in qualitative and quantitative data collection methods, such as field surveys, interviews, GIS data, remote sensing, and sampling techniques. ● Learn to apply statistical and spatial analysis tools to interpret geographical data. ● Develop skills in using minor survey instruments: Brunton compass, distometer, smartphone levelling applications. ● Understand how satellite images and Survey of India maps are integrated into mapping techniques, including the interpretation of river bank-coastline shift and extraction of flooded areas. ● Acquire the ability to prepare accessibility maps and flowcharts. ● Gain proficiency in knowledge about the proportional relationships and classification of three interacting occupational patterns.
Semester II	
GEOM-H-CC02-2-Th – Human Geography & GEOM-H-CC02-2-P – Human Geography Lab (Semester II)	● Gain knowledge about major themes of human geography. ● Develop an idea about space and society. ● Studies of races of mankind's. ● Build an idea about population growth and distribution of population. ● Know about population –resource relationship. ● Develop an idea about different types of age-sex structures and growth rate of population. ● Understand the significance and uses of cartograms.

- **IDC paper**

GEOD-H-IDC01-1/2/3-Th_ Geomatics and Spatial Analysis	● Gain a comprehensive understanding of the fundamental principles and technologies in geomatics, including GPS, remote sensing, GIS and GNSS. ● Develop skills in various methods of spatial data collection, such as surveying, photogrammetry, and satellite imagery analysis. ● Develop expertise in creating accurate maps and visual representations of spatial data, employing cartographic principles for effective communication. ● Provides knowledge in precise data collection techniques, geodesy, topographic mapping, geometric calculations, error analysis, software processing, project management, and adherence to regulatory standards through Total Station.

	● Learn techniques to transform three-dimensional geographic coordinates onto a two-dimensional plane through map projection. ● Enhances understanding of spatial dynamics, coordinate frameworks, cartographic techniques, distance and area calculations, thematic visualisations, spatial data analysis, GIS applications, scale significance, analytical reasoning, and the cultural and historical context of geographic representations. ● Assess and analyse riverbank or coastline shifts from multi-dated maps and images.

➢ Department of Hindi

- **Program Outcome**

The outcomes of learning Hindi:

Language Skills

- ✓ Reading Comprehension: Understand various Hindi texts, including literature, articles, and news.
- ✓ Writing Skills: Write coherent and grammatically correct Hindi sentences and paragraphs.
- ✓ Speaking Skills: Communicate effectively in Hindi, using appropriate vocabulary and pronunciation.
- ✓ Listening Skills: Understand spoken Hindi, including conversations and audio/video recordings.

Cultural and Literary Understanding

- ✓ Appreciation of Hindi Literature: Understand and analyze Hindi poetry, stories, and novels.
- ✓ Cultural Awareness: Learn about Indian culture, customs, and traditions.
- ✓ Historical Context: Understand the historical development of Hindi language and literature.

Communication and Career

- ✓ Effective Communication: Communicate fluently and accurately in Hindi.
- ✓ Career Opportunities: Enhance job prospects in government, education, and media sectors.
- ✓ Language Proficiency: Demonstrate proficiency in Hindi for academic or professional purposes.

Cognitive and Analytical Skills

- ✓ Critical Thinking: Analyze and interpret Hindi texts, identifying key points and themes.
- ✓ Vocabulary Expansion: Enhance knowledge of Hindi vocabulary and usage.
- ✓ Grammar and Syntax: Understand Hindi grammar rules and sentence structure.
- ✓ These outcomes highlight the benefits of learning Hindi, from language skills and cultural understanding to career opportunities and cognitive development.

- **Course Outcome**

Course Code and Course Name	Course Outcome
HNDM/MDC -CC-1-1 ADIKALIN EVAM MADHYAKALIN HINDI KAVITA (Semester 1)	• Studying the love aspects and cultural diversity in Kavi Vidyapati's padas. • Studying the prescribed padas and sakhis of sant Kabirdas. Describing thesocial factors and secular thoughts of the poet. Also a detailed study of the sadhukkadi language used by the poet. • Going through the manasarodak khand of Padmavat penned by Malik Muhammad Jayasi. Describing the various aspects of love and beauty in his writings. • Studying the prescribed padas of Krishna Bhakt Kavi Surdas. Depicting the concepts of virah, vatsalya and bhakti in Surdas Kavya.

	• Knowing Tulsi das as a devotional poet and describing the Bhakti cult in his poems. • Describing the various aspects of life and society as explained in the Dohas penned by Rahim. • Studying the bhakti and virah bhavna as depicted in the poems of Meerabai. • Studying the aspects of life, social norms, bhakti and love in the dohas authored by Ritikaleen Kavi Biharilal. • Describing and studying the virah bhavna and intensity of love in the poems penned by Kavi Ghananand. • Knowing poet Raskhan as a Krishna devotee of the Medieval era.
HNDM/MDC-A-SEC LOK SAHITYA (Semester I)	• Understanding the conception about folklore and folk culture. • Describing the relation and inter relation of folk culture and literature, relation of folkliterature with other social sciences, facing difficulties in study of folk literature. • Knowing the history of Lok Sahitya in India. Describing the classification and forms offolk literature in India. • Studying Lok geet : sanskar geet,vrat geet, shram geet etc. • Describing in details the forms of folk songs,folk drama.Knowing the tradition andtechniques of hindi folk drama. • Knowing how folk drama affected Hindi Drama and Rangmanch. • Understanding the folk tales, folk language,folk dance and music.

Course Code and Course Name	**Course Outcome**
HNDM/MDC- CC-2-2 **1.** AADHUNIK HINDI KAVITA (UPTO CHHAYAVAAD) (Semester II)	• Studying the prescribed text from naye zamane ki mukriyan by Kavi Bhartendu Harishchandra. Describing the satiristic viewpoint regardingthe socio-political scenario by the poet during British Raj. • Studying the shades of life, freedom struggle in the prescribed poems of Ayodhya Singh HariAudh. • Going through the Mahabhinishkraman Khand of Yashodhara KhandKavya written by Rashtrakavi Maithalisharan Gupta. Describing the thoughts of Yashodhara and the feelings of Gautam Buddha while leaving the palace and going for Sanyas. • Knowing about Ram Naresh Tripati,a famous poet from the Pre- Chhayavad era.
Karyalayi Hindi	1. Letter Writing: Follow standard format and style for official letters. 2. Report Writing: Reports should be clear, concise, and detailed. 3. Minute Writing: Meeting minutes should be clear and detailed. 4. Issuing Instructions: Instructions should be clear, concise, and time-bound. 5. File Noting: File notings should be clear and concise. 6. Annual Reports: Annual reports should be submitted on time and be comprehensive. 7. Press Releases: Press releases should be clear, concise, and timely.

	8. Translation Work: Translations should be accurate and timely. 9. Hindi Terminology: Use official Hindi terminology in office communications. 10. Hindi Typing: Ensure accuracy and attention to detail in Hindi typing.

➢ Department of Journalism & Mass Communication

- **Program Outcome**

✓ Students are going to learn introduction to journalism along with idea on news reporting and editing, basic structure of newspaper along with the page set up in print journalism.

✓ Students will learn the news, feature & editorial writing techniques, designing a newspaper with techniques of page make up and agency copy editing techniques.

✓ Students would have an introductory idea on Radio and TV, their history, growth and function.

- **Course Outcome**

Course Code and Course Name	Course Outcome
DSCC1-Basics of Journalism & Mass Communication (Semester I)	1. General idea of news reporting 2. Reporting and editing techniques 3. Basic structure of news writing 4. Basic idea of print media and print journalism 5. Basic understanding of communication and its elements 6. Basic understandings about the types and levels of communication 7. Basic understanding about the functions of communication and mass communication
SEC-1-Practicing Journalism (Practical) (Semester I)	1. Practical knowledge about news writing and composition 2. Practical knowledge about the editing of agency copies and other news sources. 3. Practical knowledge on writing reviews for print media such as film, book and TV programmes. 4. Practical knowledge on the fundamentals of newspaper layout designing and application of page designing software. 5. Practical knowledge on the techniques of non-news writing for print media such as column, feature, post-editorial, editorial etc.
DSCC2-Broadcasting principles (Semester II)	1. Understanding history and growth of Radio in India 2. The function and autonomy of All India Radio 3. Understanding the role of Prasar Bharati 4. Getting an idea of structuring radio news, magazine, interview, feature, talk, talk-show etc. 5. Understanding TV news production, programme format, packaging, audience segmentation and viewership rating 6. Understanding the basics of TV reality shows and live TV broadcasting 7. Learning the basics of TV documentary production
SEC-1-Practicing audio-visual (Practical) (Semester II)	1. Practical knowledge and skills about audio recording 2. Practical knowledge and skills about radio script writing 3. Practical knowledge and skills about power-point making and presentation 4. Practical knowledge and skills about writing for TV such as TV news script, entertainment programme etc.

IDC-JMC: Introduction to Journalism & Mass Communication.	1. The students are going to understand basic structure and elements of news making. 2. They shall also know different types of news, and various components of news. 3. News Agencies and their functions. 4. Students would learn the basics of communication including definition and process. 5. They will also learn different forms, levels and Functions of communication.

- **Department of Microbiology**
  - **Program Outcome:**

Program Name	Program Outcome
B.Sc. (Hons.) in Microbiology	i. Students will be acquainted with a wide range of contemporary subjects spanning various aspects of basic microbiology such as Biochemistry, Immunology, Cell biology, Genetics, Molecular Biology and many more. ii. Students will get idea of laboratory safety rules and regulations and can develop skills applicable for analytical and applied research. iii. Students will gain the concepts of scientific methodology, hypothesis generation and testing, design and execution of experiments, reporting observations. iv. This course makes students competent enough to use various molecular techniques necessary to analyse biological problems. v. This program is designed for making students well-versed in different language(s) and in subject like Environmental Science. vi. To make students knowledgeable about the concept micobial and plant diseases, dissemination patterns, management and eradication from society. vii. Students can pursue careers in different fields such as in scientific writing, in health, environment, pharmaceutical, agriculture, biotechnology industries or in entrepreneurship.

- **Course Outcome**

Course Code and Course Name	Course Outcome
CC101 Introduction to Microbiology and Microbial Diversity (Semester I)	1. Students will be acquainted with laboratory safety rules and regulations and can develop skills applicable to both clinical and analytical research. 2. Students will gain the concepts of scientific methodology, hypothesis generation and testing, design and execution of experiments, reporting observations. 3. Students will learn about the different fields in microbiology, different types of microorganisms. 4. Students will gain knowledge about the physiological characteristics of different types of microorganisms and their significance in environment and agriculture. 5. Students will study different techniques used in microbiology.
SEC101 Food Fermentation Techniques and Packaging (Semester I)	1. Students will learn the techniques for the fermentation of different foods that are based on different raw materials, for example, milk, vegetable, grain, meat, fish, etc. 2. Students will be able to analyse the biochemistry of fermented food products. 3. The syllabus also gives a detailed account regarding food packaging, its categories, and safety and health aspects and testing of packaging materials. 4. Students can identify the packaging requirement of different categories of food.
CC102: Bacteriology (Semester II)	1. Students will get to know the basic nutritional requirements of bacteria. 2. Students will be acquainted with various types of nutrient media required for cultivation and isolation of bacteria. 3. Students will gain the concepts about the conditions required for growth of bacteria and the features of different growth phases of microorganisms. 4. Students will be able to understand mechanisms of various staining techniques used for visualization of bacteria. 5. To make students knowledgeable about basic principles and different kinds of microscopes and their applications in studying microbial morphology.
MCB IDC: Introduction and Scope of Microbiology (Semester II)	1. Students will be acquainted with different fields in microbiology. 2. Students can learn about the impact of microorganisms on human health development and environment. 3. Students will learn about different types of fermentation processes, equipment and microbiological processes involved in industrial sectors. 4. Students will gain the knowledge about types of spoilage of food items and activity of microorganisms behind spoilage.

➢ Department of Zoology

- **Program Outcome:**
  - ✓ Taxonomic studies will help the students to learn about animal diversity and help them to identify different organisms and also to group animals systematically.
  - ✓ Students will be able to generate understanding on the mendelian & non-mendelian principles in experimental studies while gaining deeper insight in the altercations.Gain knowledge about mutations & its causes.
  - ✓ Students will understand life cycles & diseases associated with insects & take measures to prevent them

- **Course Outcome**

Course Code and Course Name	Course Outcome
ZOOM-CC-1 Cell Biology (Semester I)	1. To develop the foundational knowledge of the membrane structure and composition, transport and trafficking of protein, the cytoskeleton, cell movement and extra cellular matrix. 2. To thoroughly understand the mechanism of cell division and their regulation through different check points. 3.To understand the means of communication among cells and to understand the mechanism of disruption of this pathway for gaining an insight into disease and medical biology. 4.To have comprehensive knowledge on the working of tools, equipments, preparation of temporary & permanent slides, cell cultures, etc., which are relevant in modern lab technology.
ZOOM-SEC-1: Applied Entomology (Semester I)	1.Students will be familiar with insect diversity, distribution, structural and behavioural peculiarities. 2. Students will be able to understand the concept of ecological importance and Agroeconomics & apply the same in the actual field. 3.Students will get to learn to collect, preserve and identify various common insects, understand life cycles & diseases associated with insects & take measures to prevent them.
ZOOM-CC-2: Biochemistry	1.Gain knowledge about cellular metabolism & the structure of major biomolecules: carbohydrates, proteins, lipids and nucleic acids along with pathways leading to their synthesis and regulation. 2.Comprehensive understanding of the basics of enzyme biochemistry, cellular bioenergetics, anabolic and catabolic processes operating for maintaining cellular physiological

(Semester II)	homeostasis. 3.On completing this course, the students are expected to be able to relate to the theoretical knowledge on enzyme biochemistry and translate them in real life situations like understanding the basis for action of medicines which often modulate enzyme activities within the system. 4. Learn to analyze a biological sample for detection of carbohydrate protein, lipid which is a basic knowledge requirement for all pathological laboratories as well as for students of biomedical field.
ZOOM-SEC-2 Aquaculture (Semester II)	1.Gain knowledge on various cultivable fishes. 2.Students will learn sustainable aquaculture from the basics including water quality maintenance, preparation of culture ponds, fish feeds, breeding techniques, pathology, transport & marketing. Be aware of recent advancements such as aquaponics, application of GIS, Fishery laws & regulations. 3.Gain theoretical knowledge on pearl culture & sea weed culture. 4.Learn to maintain aquariums of ornamental fishes. 5.Harness practical knowledge of identification of various fishes available in the Indian fish markets & understand their economic importance.
IDC-2 Animal Biology IDC-2-TH & P	1. Acquire knowledge about cellular, biochemical and molecular processes that control cellular physiology and pathology, occurrence of inherited and non-inherited human diseases as well as parasite growth and development. 2. Apply advanced techniques in cell and molecular biology and recombinant DNA technology which will enable them to select a career in biomedical research. 3. Prospects of employment in reputed organizations like ZSI, DBT, DRDO, ASTEC, IUCN, DST, Government administrative jobs such as IFS, WBFS.

➢ Department of History:

Understand the background of our religion, customs institutions, administration and so on. Understanding the relationship between the past and the present is lively presented in history. Develop practical skills which helpful in the study and understanding of historical events. They Draw historical maps, charts, diagrams etc. Understand the present existing social, political, religious and economic conditions of the people. Develop interests in the study of history and activities relating to history. They are to collect ancient art, old coins and other historical materials; Visit places of historical interest, archaeological sites, museums and archives; Read historical documents, Write articles on historical topics etc. The study of history helps to impart moral education. History installs the feeling of patriotism in the hearts of the pupils.

- **Course Outcome:**

Course Code and Course Name	Course Outcome
M1/MD-CC- 1 History of India From the earliest times to C 300 BCE	• This course intends to provide an extensive and deeper understanding of early Indian history to students. • They will be introduced to how diverse aspects of ancient Indian history have been recovered from a rich variety of sources, archaeological, literary, numismatic, and epigraphist. • Students will become familiar with the tools required for studying history and explore the diverse histories and regional variations in the Indian subcontinent and also study various facets of ancient India social, cultural, political, and environmental concerns.
M1/MD-CC- 2 Social Formations and Cultural Patterns of the ancient world other than India	• This course aims to introduce the students to the significant developments in world history that have shaped the complexity of human existence. • To begin with, it offers a historical survey of human evolution. • It details the transition from a hunting-gathering subsistence pattern to more advanced adaptations to a sedentary farming economy.
SEC-1: Repositories of History: Museum and Archives	• This course introduces students to the institutions that house and maintain documentary, visual and material remains of the past. • Museums and archives are among the most important such repositories and this course explains their significance and how they work. • Students will be encouraged to undertake the collection, documentation and exhibition of such materials in their localities and colleges. • Visits to the National Archives and National Museum are an integral part of the course.
IDC -Making of Contemporary India (1919 - 1964)	• This course focuses on the major national movements that led to India's independence in 1947. • It also discusses the impact of Partition on society and culture and finally the evolution of Parliamentary democracy and Indian foreign policy during its early days.

➢ Department of Political Science:

- **Outcome of the subject:**

✓ **Critical Understanding of Politics, Society and Culture**

Students develop an understanding of politics, administration, society, culture, and international relations through exposure to theories and empirical methods.

✓ **Analysis of Political Issues**

Analyse different political issues and models of democracy.

✓ **Understanding of Indian Constitutionalism**

Students develop an understanding of the values and goals embedded in the Constitution and Indian Constitutionalism, including Constitutional Architecture, Institutional Design, and the Practice of Constitutional Democracy.

✓ **Awareness of the Government's functioning**

Students develop an awareness of how the Government functions through its various organs at various levels.

✓ **Understanding of the Division of Power**

Students develop an understanding of the division of power between various organs of the Government.

✓ **Some other skills that students may develop include**:

- Accessing and evaluating data from various sources of information
- Making logical inferences about social and political issues
- Improve working knowledge of affirming one's rights
- Be aware of duties to explore opportunities and challenges for different sections of people in India
- Students will be acquainted with the changing nature of Governance in the era of globalisation and will become familiar with a rigorous introduction to the best practices in India on Governance
- Taking individual and team responsibility
- Working effectively in multi-disciplinary teams

- **Course Outcome:**

Course Code and Course Name	Course Outcome
Semester I	
PLS-MD-CC-1-1-TH+TU Political Theory: Foundational Concepts	✓ Understanding the entry points through which the 'political' is interpreted, understanding the core concepts that guide the theorization of politics and finally understanding how such theories relate to practice
PLS-MD-CVAC-1- TH CVAC- Constitutional Values and Fundamental Duties	✓ This course aims to enrich students with knowledge and relevance of the Indian constitution ✓ It develops awareness about the values of basic tenets of Constitution and duties of citizens to inculcate a sense of constitutionalism
Semester II	
PLS-MD-CC-2- 2-TH+TU Constitutional Government in India	✓ To enable students to know the constitutional design of government and political institutions in India. ✓ To relate such institutions to the ideals of liberty, equality and justice, and to the process of decentralization and federalism, development and democracy, on which the constitutional democracy in India is visualized. ✓ To encourage students to see how institutional practices and constitutional design are impacted by the political contexts within which they unfold. ✓ To develop the ability to comprehend the relationships between constitutionalism, democracy and governance
PLS-MD-IDC- 2-TH+TU IDC: Understanding Governance	✓ This paper deals with concepts and different dimensions of governance highlighting the major issues in contemporary times. ✓ It will facilitate understanding of the importance of the concept of and practice governance, which is essential for students across disciplines. ✓ It simultaneously focuses on environment, administration, development
PLS-MD-SEC-2- TH+TU SEC: Democratic Awareness with Legal Literacy	✓ Acquaint undergraduate students with different terms of the legal structure of India

➢ Department of Economics:

Economics is a diverse field. A study of economics makes a person understand daily economic issues as appearing in popular press. The students will have acquired following knowledge:

1. An in-depth knowledge and understanding of fundamental concepts in economics and will be exposed to the real-world data related to industries and society, identifying the problems and working towards their solutions through various analytical techniques.
2. The ability to understand the economic way of thinking and to write clearly expressing an economic point of view and analyze economic behavior in practice.

- **Course Outcome:**

Course Code and Course Name	Course Outcome
MN-1 Microeconomics (I)	In this course students acquire comprehensive knowledge about • the subject matter of economics and the various economic agents, along with the behaviour of market, through demand supply interaction • the concept of demand and elasticity of demand with mathematical foundation. • Along with it, it also gives an idea about the basics of cardinal and ordinal theory of demand determination • Concept of TP, AP, MP, revenue • Concepts of Public good, Private good & Externalities
MN-2 Macroeconomics (II)	In this course, the students acquire knowledge on • The basic concepts of national income accounting which includes GDP, GNP, NDP, NNP, along with the different methods of its measurement. • The Simple Keynesian model in a closed Economy – the concept of multiplier, income determination, role of the government • Basic ideas of classical system-Say‘s Law and Quantity Theory of Money- classical theory of income and employment determination. • Basic idea of money like Quantity Theory of Money, Keynesian Liquidity Preference, • Inflation – types of inflation, Phillip’s Curve- trade-off between inflation and unemployment. Hyperinflation, anti-inflationary policies
IDC1/2/3 Elementary Economics	The course exposes students to the basic of Elementary Economics. They will get the basic idea about – • How demand and supply interact in various market structures to determine price and quantity of a good, Elasticity concepts. • Learn about production and cost theory, perfect competition and monopoly with diagrams.

	• Macroeconomics studies economies as a whole. The basic concepts of National Income accounting - The Circular Flow, Concepts of GNP, GDP, NNP, and NDP at market price and at factor cost. National Income measurement methods. • Students will be able to describe the contemporary banking and monetary system, and analyse the role of money, inflation and its consequences, analyse fiscal and monetary policy. • Concepts of BOP and accommodating transactions, IMF, World Bank, WTO. • The concepts of Development and Growth and the basic characteristics of economic development and economic growth. • The indices of economic development - HDI, GDI, MPI, Inequality Indices – Indian's rank; causes and measures of poverty inequalities; concepts of sustainable development and its goals. • An overall understanding about various sectors of the Indian economy; analyzing the sector specific policies. • Students will be exposed to economic reforms in India and problems of Indian economy; basic steps of trade, NITI AYOG – structures and its objectives.

➢ Department of Bengali

Bengali is a beautiful language with a rich historical and cultural significance. Bengali language has a profound impact on the cultural, social, and economic landscape of Bangladesh and India. After successful completion of the course, students will be able to develop on Bengali language and literature. Communication skill, critical thinking, moral and ethical awareness, child literature, multi-cultural competence, team work, self-directed lifelong learning will be gain by this course.

Course Code and Course Name	Course Outcome
BNG-MD-CC/MIN-1-1/3-TH-TU Bangla Sahityer Itihas (upto 1800 AD) (Semester I)	This course gives Ideas about the history of Ancient and Medieval Bengali literature. It gives the knowledge of society and Religious history, ancient Indian Epic- Ramayana Mahabharata anad Bhagavad Gita and Vaishnav religion and 'Shakta Padabali'.
BNG-MD-CC-MIN-2-2/4-TH-TU Barnanamulak Bhasabigyan o Bangla Bhasa -1 (Semester II)	This course gives the basic knowledge about linguistics. Student also get a chance to learn about different aspects of modern linguistics. Reading different aspects of Bengali Grammar has increased their ideas about the structure of language.

➢ Department of Chemistry

The Syllabus is well-designed so that students graduating with Chemistry Minor will have a firm foundation in the fundamentals and application of theories of Physical Organic and Inorganic Chemistry. The students will be able to apply the basic principles of the subject to solve problems of not only Chemistry but also their Core subjects. The basic experimental techniques will help the students to be well equipped with the expertise and knowledge of the subject to enable themselves to work in industry and also become successful entrepreneurs. The students will thus be prepared for a successful career in industry or higher education and research.

Course code	Course Outcome
MN-1	• A comprehensive understanding of the extra-nuclear structure of atoms and their influence on chemical behavior. • Exploring the periodictable, periodic trends, and their correlation with atomic structure. • Fundamental concepts of organic chemistry, the nature of chemical bonding and the relationship between molecular structure and physical properties. • Basic understanding of thermodynamics and chemical kinetics. • Understanding concepts of titration which includes Acid-Base as well as Oxidation-Reduction by performing practical experiments of this paper.
MN-2	• Basic knowledge of kinetic theory and Gaseous state, real gas and virial equation and solving numerical problems. • Learning the basic concepts and types of chemical bonding, rules, solubility, dipole moment. • To understand theoretical principles of inorganic qualitative analysis. • Syllabus also provides some important concepts to understand the stability, reactivity and behaviour of organic reactive intermediates. • To study reaction mechanism, thermodynamics and kinetics of various organicreactions. • To know the free radical mechanism, certain postulates to be discussed. • The Practical syllabus is to understand qualitative inorganic semi-micro analysis of mixtures containing three radicals.

➢ Department of Physics

Physics is a natural science that studies the fundamental nature of how the world works, and it's important for many reasons, including:

- **Understanding the world**

  Physics helps us understand the universe and the world around us, from the microscopic level of particles to the macroscopic level of space.

- **Technological advances**

  Physics is the basis for most modern technology, including transport, construction, telecommunications, and MRI scanners.

- **Developing skills**

  Physics majors develop skills like problem solving, advanced mathematics, computing, data analysis, and experimental techniques. These skills are valuable in many areas, including engineering, medicine, economics, finance, management, law, and public policy.

- **Preparing for graduate study**

  A physics major prepares students for graduate study in physics, engineering, computer science, life sciences, earth science, finance, economics, public policy, and journalism.

- **Improving quality of life**

  Physics helps improve quality of life by providing the basic understanding needed for developing new medical applications.

- **Teaching method**

Physics can be taught in a way that helps students develop practical skills and a deeper understanding of concepts.

- **Course outcomes:**

Course Code and Course Name	Course Outcome
MPHS, MN-1 (Theory)	On successful completion of the course, the students will be able to 1) Units and dimensions of various fundamental physical quantities. 2) Understand basic concepts of 3D vectors, vector calculus and its physical interpretation and curvilinear coordinate 3) Provide a basic knowledge of Partial Differential equations and develops knowledge on handle practical problems. 4) Adopt techniques in solving problems involving vector and scalar functions. Also, provide skills on finding derivatives and gradients on vector differentiation and Integration. 5) Understand the fundamentals of classical mechanics in inertial frame of reference, such as, Newton's laws of motion, Dynamics of the

	system of particle, Conservation of Linear and Angular momentum, Work energy theorem and Collision. 6) Realize the general properties of matter, such as, gravitation and motion of central force, and fluid dynamics
Practical	The student will learn to determine the following physical properties: 1) Measurement of length, diameter and depth of a body. 2) Elastic properties of solids. 3) Moment of inertia of matter. 4) Physical properties of liquids 5) Suitable vertical height calculation.
MPHS, MN-2	**After the completion this Course, the student would acquire the following:** 1) Explain the basic laws of electrostatics and their applications to capacitor. 2) Realize the concept of Lorentz force and Basic principle of cyclotron, and magnetic field of various systems. 3) Understood the kinetic theory of gases and gas laws. 4) Get an idea about the specific heat capacity and its determination methods. 5) Learnt the thermodynamic system and its associated laws.
Practical	On completion of the course students will have the following capabilities: 1) Calibration of Ammeter and Voltmeter. 2) Determination of an unknown low resistance, resistivity of wire and circuit connection. 3) Measurement of current flowing through an external circuit and concept of electromotive force (emf) in cells. 4) Concept on pressure coefficient of air at constant volume. 5) The thermal expansion of materials can be measured.

➢ Department of Human Development

The students will acquire following knowledge:

- ✓ Empowering students to advocate basic principles of human development to families and community.
- ✓ Contributing to the well-being of individuals and families across life span by building sustainable professional relationships with industry, community and state bodies.
- ✓ Advocating a rights-based, inclusive, gender and culture sensitive curriculum covering the human life span in response to contemporary social challenges.
- ✓ To gain a better understanding of an individual's life experiences.
- ✓ To gain knowledge of how social contexts impacts growth and development.
- ✓ To understand how societal change can support growth and development.
- ✓ To support physical and mental health of individuals throughout their life span.
- ✓ To understand the contemporary societal challenges and the different human rights to overcome these challenges.

- **Course Outcome:**

Course Code and Course Name	Course Outcome
CORE (MINOR) INTRODUCTION TO HUMAN DEVELOPMENT	1. To gain knowledge about the concept of human development. 2. To gain knowledge about some basic definitions related to human development. 3. To understand the life span approaches to human development. 4. To learn the various methods of human development. 5. To have an idea about the concept of growth and development and its differences. 6. To gain knowledge about the different stages of life. 7. To gain an idea about the developmental highlights of different stages of life. 8. Students will be able to understand the different development problems that occurs during the life span of an individual.
CORE (MINOR) HIGHLIGHTS OF LIFE SPAN DEVELOPMENT	1. To gain knowledge about some basic definitions. 2. To gain knowledge about different developmental stages in depth. 3. To understand the characteristics and developmental tasks of different stages of life. 4. To gain knowledge about the problems in different developmental stages of life.

IDC INTRODUCTION TO HUMAN DEVELOPMEN	1. To gain knowledge about the concept of human development. 2. To gain knowledge about some basic definitions related to human development 3. To understand the life span approaches to human development. 4. To learn the various methods of human development. 5. To have an idea about the concept of growth and development and its differences 6. To gain knowledge about the different stages of life 7. To gain an idea about the developmental highlights of different stages of life.

➢ Department of Film Studies:

Students who study Film studies as general subjects are introduced to Indian cinema and world cinema. They are introduced to methods employed by film makers to communicate of how to make a film and various concept to film release like Pre-Production, Production, and Post-Production. They gain knowledge on cinematography (shot, angle, movements), editing (transition, time & space), sound (sync sound & non-sync Sound) etc. They also learn on how to do film analysis- the process of shot, mise-en-scene etc.

- **Course Outcome:**

Course Code and Course Name	Course Outcome
MFST MINOR –I (Semester I)	1. Screenwriting and storytelling. 2. Film direction and production. 3. Cinematography and Editing. 4. Sound design and music composition. 5. Film criticism and Journalism. 6. Film archiving and preservation. 7. Media and entertainment industry roles.
MFST MINOR -2 (Semester II)	1. Conduct original research in film studies. 2. Contribute to film theory and criticism. 3. Develop innovative film- related methodologies. 4. Evaluate film's impact on cultural policy and social change. Demonstrate expertise in film scholarship and academic leadership.

Environmental studies:

Environmental studies courses have a variety of outcomes, including:

- Students can learn to understand the environment as a system, and how human activities may affect
- Students can learn to use critical thinking and problem solving skills to address environmental issues.
- Students can learn to recognize the interdisciplinary nature of environmental issues like natural sciences, social sciences and humanities to solve environmental problems.
- Students can learn to apply analytical methods to environmental problems.
- Students can learn to reflect on their roles as citizens, consumers and environmental factors. They can also learn to develop values and attitudes that support environmental protection, conservation and sustainable development**.**

Course Code and Course Name	Course Outcome
CVAC (Paper I) ENVS01 Fundamentals of Environment	✓ Gain knowledge about Environment ✓ Gain knowledge about interdependence of man and nature ✓ Students will learn about natural resources, its importance and environmental impacts of human activities on natural resources. ✓ Gain knowledge about the conservation of biodiversity and its importance. ✓ Aware students about problem of environmental pollution, Its impact on human and ecosystem and control measures.
CVAC (Paper II) ENVS02 Environmental Education	✓ Understanding natural process, Predicting consequences ✓ Critical thinking, values and attitudes, problem solving etc. ✓ Students learn about the legislative measures that protect the environment and the spirit of Indian Constitution ✓ Students will use critical thinking, problem solving and methodological approaches from various disciplines and understand the interconnectedness of environmental issues.