COURSE OUTCOMES

After completing the corresponding course students will be able to:

**B.Sc. with Mathematics**

| **Sr.**  **No.** | **Class/Year** | **Code** | **Course** | **Expected Outcome** |
| --- | --- | --- | --- | --- |
| 1. | I | MATH101TH | Differential Calculus | Solve problems based on limit, continuity, differentiability, asymptotes etc. and their applications |
| 2. | I | MATH102TH | Differential Equations | To know the order , degree, exactness of a differential equation, their formation and different methods for their solutions |
| 3. | II | MATH201TH | Real Analysis | Search countable and uncountable sets Differentiate bounded unbounded sets bounded sequences and unbounded sequences  Apply the concept of convergence and uniform convergence Solve problems based on series of functions and power series. |
| 4. | II | MATH202TH | Algebra | To identify the various algebraic structures with their corresponding binary operations, generalize the groups on the basis of their orders, elements  Distinguish sets, groups, semigroups,  subgroups normal subgroups and quotient subgroups  Examine the homomorphisms of group Characterize rings, ID, fields, subrings ideals. Apply theorem based on homeomorphisms and isomorphism’s |
| 5. | II | MATH309TH | Integral Calculus | To find area and volume of curves |
| 6. | II | MATH310TH | Vector Calculus | To find dot and cross products of vectors, vector differentiation, gradient, divergence, curl and vector integration. |
| 7. | III | MATH303TH | Linear Algebra | To know about the vector space and linear transformation, dual space, rank and null space  Find basis dimensions quotient subspaces of given vector space Make use of linear transformations to find matrices dual spaces dual basis double dual Eigen values and vectors and characteristic polynomials. |
| 8. | III | MATH304TH | Numerical Methods | Make use of iterative methods, bisection method and newton raphson method in solving Nonlinear equations  Distinguish interpolation and extrapolations Apply gauss’s central difference formulae sterling formulae  Numerically integrate the functions using the Trpezoidal, Simpson and Wddele Rule  Problem solved on complex numbers and analytic functions. |
| 9. | III | MATH313 TH | Probability and Statistics | To know about sample space, probability axioms, mathematical expectations, binomial poisson, continuous distribution, etc. |
| 10. | III | MATH317 TH | Transportation and game Theory | Problems related with north west corner method, least count method, voggel approximation method, algorithm, assignment problem and its mathematical formulation, etc. |

B.Sc. with Botany

PROGRAM OUTCOMES:

* Knowledge of Botany and its branches makes one capable to identify different plants belonging to different groups and its uses for the benefits of mankind.
* In the U.G. level, a basic knowledge is provided to the students for better understanding of the Plants science specific fields such as Taxonomy, Plant Anatomy, Plant Physiology, Molecular Biology, Floriculture, Biofertilizers, Biotechnology and Mushroom cultivation
* In fields like Plant Pathology, we get knowledge of different disease causing organisms and their control measures. In Economic Botany and Ethnobotany the students are apprised about uses and importance of different plant species.

| **Sr.**  **No.** | **Class/Year** | **Code** | **Course** | **Expected Outcome** |
| --- | --- | --- | --- | --- |
| 1. | I | BOTA101  TH | Biodiversity  (Microbes, Algae, Fungi & Archegoniates) | Knowledge of Botany and its branches makes one capable to identify different plants belonging to different groups and its uses for the benefits of mankind.  -To make students aware about microbial diversity.  –To understand the structure, general characteristics, ecology, distribution , reproduction & life cycles of the Algae, Fungi, Bryophytes Pteridophytes & Gymnosperms with various genera.  - To understand the stellar evolution & seed formation habitat in Pteridophytes.  - To explore economic importance of Algae, Fungi, Bryophytes, Pteridophytes & Gymnosperms. |
| 2. | I | BOTA101  PR | Biodiversity  (Microbes, Algae, Fungi & Archegoniates) | To identify the specimen \structure of Algae, Fungi, Bryophytes, Pteridophytes & Gymnosperms.  -To understand the morphology, thallus structure and reproduction among them |
| 3. | I | BOTA102  TH | Plant Ecology &Taxonomy | Study of prokaryotic and eukaryotic cell ,cell organelles etc.  -To understand ecological relationships between organisms and their environment.  -To identify diversity of life forms in an ecosystem.  -To understand the role that biodiversity plays in conservation Science.  - To recognize the major groups of vascular plants and their phylogenetic relationships.  -To gain the knowledge of Herbarium, Botanical gardens, ICBN (Principles & rules). |
| 4. | I | BOTA102  PR | Plant Ecology &Taxonomy | -Study of instruments used to measure microclimatic variables. Soil thermometer, anemometer, rain gauge & lux meter. -Study of morphological adaptations of Hydrophytes & Xerophytes. - Study of vegetative & floral characters of flowers-Field visit. -Mounting of a properly dried & pressed specimen of any wild angiosperm with herbarium label. |
| 5. | II | BOTA201 | Plant Anatomy & Embryology | | Study of biomolecules and their structure | | --- | | and functioning | |
| 6. | II | BOTA202  TH | Plant Physiology & Metabolism | Introduction of ecosystem types structure and its functioning  -To understand plant physiological and Metabolism processes and metabolism. -To explain the role of micronutrients in plant growth and development. -To understand the importance of plant growth regulators |
| 7. | II | BOTA202  PR | Plant Physiology & Metabolism | -To gain practical knowledge of Osmosis by potato osmoscope experiment. -Structure of stomata. -Demonstration of transpiration by Ganong’s photometer. -Demonstration of ascent of sap\Transpiration pull. -Study of mineral deficiency symptoms using plant photographs\material. -Separation of chloroplast pigments using paper chromatography technique. |
| 8. | II | BOTA203 | Bio-Fertilizers | Study of interaction between environment and plant species and their classification |
| 9. | II | BOTA204 | Gardening & Floriculture | To gain the knowledge of factors affecting growth & flower production of ornamentals.  -To understand the cultivation of important flower crops (Carnation, Chrysanthemum, Gladiolus, Marigold, Rose, Lilium)  To gain the knowledge of packaging, storage and transport of flower crops. To gain the Post-harvest handling of important flower crops, flower arrangements and other floral crafts |
| 10. | III | BOTA-301 | Economic Botany &  Biotechnology | - study of economically important cultivated plants such as cereals, pulses, vegetables, spices, beverages like tea and coffee, oil crops, sugarcane, fiber yielding and medicinal plants.  -contents related to biotechnology, biotechnological techniques, transgenic plants, plant tissue culture techniques and applications of plant tissue culture in agriculture, horticulture and forestry.  -able to learn about different economically important plants and implement the biotechnological techniques in their higher studies and research careers. |
| 11. | III | BOTA-303 | Cell and Molecular Biology | - course is related to the study of techniques in cell biology, cell, cell organelles, cell cycle, genetic material and regulation of gene expression in prokaryotic and eukaryotic cells  -able to implement these studies and techniques in their higher studies and research careers. |
| 12. | III | BOTA-306 | Medicinal Botany and Ethno-Botany | -course has contents related to the traditional systems of medicine; indigenous systems of medicines such as Ayurveda, Unani and Siddha system of medicine; ethnobotany; plants used by the tribals; methodology of ethnobotanical studies; role of ethnobotany in modern medicine; medico-ethnobotanical sources in India; role of ethnobotany in modern medicine; role of ethnic groups in conservation of plant genetic resources and legal aspects of ethnobotany  -able to learn the various aspects of ethnobotany and implement the same in their higher studies and research careers |
| 13. | III | BOTA-307 | Mushroom Cultivation Technology | -the study of various aspects of Mushroom Cultivation Technology.  - contents such as nutritional and medicinal value of edible mushrooms; poisonous mushrooms; cultivation practices of *Agaricus bisporus*, *Pleurotus sp*. and *Volvoriella volvacea*; Composting technology in mushroom production; mushroom storage; food preparation; mushroom marketing in India and abroad and diseases and pests of mushrooms.  -able to learn the various aspects of Mushroom Cultivation Technology and implement the same in their higher studies research careers and entrepreneurship. |

**B. Sc .with Chemistry**

Programme Outcomes –

1. Demonstrate, solve and understands different concepts of chemistry
2. Understand the some basic chemical changes around him in day to day life
3. Categories the various foods in sense of chemistry and is also able to understand food metabolism.
4. Understand problem of pollution and its impact in his/her own area as well as able to put his ideas related to some chemical changes in the environment due to pollution.
5. Guide the society in use of material chemicals introduced by the chemical industry.
6. Have basic Knowledge of simple medicines used to cure infection, fever, pain reliever.
7. Operate and use of various instruments like conductivity meter , pH meter, Colorimeter for various chemicals analysis

| **Sr.**  **No.** | **Class/Year** | **Code** | **Course** | **Expected Outcome** |
| --- | --- | --- | --- | --- |
| 1. | I | CHEM101TH | Atomic Structure ,Bonding, General Organic Chemistry & Aliphatic Hydrocarbons | Predict atomic structure, chemical bonding and molecular geometry based on accepted models To study the subject initially by understanding the basic things for chemical reactions i.e. Substrate and Reagents Types of reagents Electrophilic and Nucleophilic Homolytic and heterolytic fission, Electron mobility Inductive effect etc Predict the major and minor products of a variety of organic reactions with appropriate stereochemistry and regiochemistry. Understand and reproduce accepted mechanisms of organic reactions including all intermediates, arrows, charges, and resonance structures. |
| 2. | I | CHEM 101 (PR) | ATOMIC STRUCTURE, BONDING, GENERAL ORGANIC CHEMISTRY & ALIPHATIC HYDROCARBONS | Define chemistry as the study of the composition, structure, properties, and reactions of matter. Purification of organic compounds by crystallization and distillation. |
| 3. | I | CHEM 102 (TH) | STATES OF MATTER,CHEMICAL KINETICS & FUNCTIONAL ORGANIC CHEMISTRY | Apply quantitative reasoning skills to determine quantities of matter and energy involved in physical and chemical changes. Manipulate the gas laws to describe real and ideal gas behavior. Identify the physical and chemical properties of common organic functional groups. |
| 4. | I | CHEM1O2 PR | States of Matter Chemical Kinetics &Functional Organic Chemistry | Systematic analysis of organic compounds of Various organic chemicals like phenols, Alcohols, Carbonyl compounds, amines and acids |
| 5. | II | CHEM201 TH | Solution, Phase, Equilibrium, Conductance, Electrochemistry & Organic Chemistry | In this course, the students studied about the basic concepts of physical chemistry and organic chemistry. In physical chemistry, students got the knowledge about solution chemistry including phase equilibrium of one component and two component system, concepts related to conductance of solution and basic concepts of electrochemistry. In organic chemistry portion, students came to know about methods of synthesis, physical and chemical properties of carboxylic acids and their derivatives, amines, diazonium salts and carbohydrates. |
| 6. | II | CHEM201PR | Solution, Phase, Equilibrium, Conductance, Electrochemistry & Organic Chemistry | Describe the method for the determination of conductance, degree of dissociation in case of strong acid vs strong base and weak acid vs strong base. Systematic analysis of organic compound |
| 7. | II | CHEM202TH &  PR | Chemistry of Main Group Elements , Chemical Energetics & Equillibria Basic Analytical Chemistry | in this course, the students studied about the chemistry of s-block and p-block elements (main group elements) of the periodic table. Other than this, basic concepts of thermodynamics of chemical reactions, thermochemistry and chemical as well as ionic equilibrium of reactions were also discussed with the students. |
| 8. | II | CHEM203TH | Basic Analytical Chemistry | To understand the various methods for soil, water, food product and cosmetic analysis by various Chromatographic techniques  Recognize the role played by transition metal complexes in Inorganic Chemistry. Describe the structure and bonding theories in coordination compound electronic and magnetic properties of the transition metal complexes |
| 9. | II | CHEM204TH | Fuel Chemistry &Chemistry of Cosmetics & Perfumes | To study energy sources, fuels, lubricants, essential oils and cosmetics. |
| 10. | III | CHEM301  TH+ PR | POLYNUCLEAR HYDROCARBONS, DYES, HETEROCYCLIC COMPOUNDS AND SPECTROSCOPY (UV, IR, NMR) | Here synthesis and chemical reactions of polynuclear hydrocarbons including anthracene, naphthalene and phenanthrene were discussed with the students. Beside this, the students also got the knowledge of chemistry of heterocyclic compounds comprising of furan, thiophene, pyrrole, pyridine, indole, quinoline and isoquinoline. Moreover, basic principles of various spectroscopic techniques such as UV, IR and NMR and their utility for structure identification of organic compound were also elaborated to the students. |
| 11. | III | CHEM305TH+ PR | Polymer Chemistry | | Classify various types of polymers | | --- | | Explain and identify preparation methods, properties and uses of various types of polymers. In this coursework, students were first introduced to polymers including their classification, methods of preparation and kinetics of polymerization reactions. Further, morphology and molecular weight analysis of polymers was discussed. Lastly, the preparation, structure, properties and applications of few well known polymers such as polystyrene, PVC, Bakelite, Novalac and silicon polymers were explained to the students. | |
| 12. | III | CHEM306TH+ PR  CHEM307 | Molecules of Life  Chemical Technology& Society & Business Skills for Chemistry |  |
| 13. | III | CHEM308 | Pesticide Chemistry & Pharmaceutical Chemistry |  |

.  **BSc with Physics Programme**

| **Sr.**  **No.** | **Class/Year** | **Code** | **Course** | **Expected Outcome** |
| --- | --- | --- | --- | --- |
| 1. | I | PHYS101TH+PR | Mechanics Theory  Mechanics Lab | * Draw the diagram of the problem of mechanics. * Understand the various forces acting in the problem. * Solve the problem by using various principles of physics. * Solve the problems of coriolis forces and pseudo forces acting in a system. * Understand the concepts of Relativity and to solve various problems of Relativity |
| 2. | I | PHYS102TH  +PR | Electricity ,Magnetism& EMT Electricity ,Magnetism& EMT Lab | * Draw the diagram of the problem of Electrostatics and Magneto statics. * Understand the concept of electric field, Magnetic field and electric potential. * Solve the problem of electrostatics by using various principles of physics. * Solve the problems of monopole, dipole and multi poles. * Understand the concepts of EMT and to solve various problems of EMT. * Understand the Maxwell equations and concept of EM waves |
| 3. | I | PHYS201TH+PR | Statistical & Thermal Physics  Statistical & Thermal Physics Lab | * To understand the basic idea of probability. * To understand how to distribute n particles in different number of compartments. * To study the state of maximum probability and its deviation from most probable state * To understand the concept of phase space and elementary cells. * To distinguish between classical and quantum statistics. * Use of Quantum statistics for Bosons and Fermions. Using the concept of entropy to understand heat death of the universe * Use the concept of thermodynamic probability to derive entropy. * To understand the Maxwell’s Thermodynamic relations and their applications |
| 4. | I | PHYS202TH+PR | Waves & Optics  Waves & Optics Lab | * To understand the concept of simple harmonic motion. Able to understand the terms involved in the solution of undamped oscillator, damped oscillator and forced oscillator and their plots. * To understand the concept of quality factor * To understand the basics of wave theory of light. * To understand the concept of interference of light and different methods to obtained the interference. * Using the concept of diffraction and polarisation, study the methods for obtaining and their applications in daily life |
| 5. | II | PHYS203TH+SE  OR  PHYS204TH+SE | Physics Workshop Skills Theory + Skill Exam OR  Physics Workshop Skills Theory + Skill Exam | * Introduced students to various instruments like Vernier callipers, screw gauge, Sextant etc. |
| 6. | II | PHYS205TH+SE  PHYS206TH+SE | Electrical Circuits &Network Skills Theory +Skill Exam  OR  Basic Instrumentation Skills Theory +Skill Exam | * Gain the knowledge of Physics through theory and practicals. * Understand good laboratory practices and safety. * Develop research oriented skills. * Make aware and handle the sophisticated instruments/equipments. * Able to make the knowledge based projects |
| 7. | II | PHYS302TH  +IA+PR | Solid State Physics and Electronics Theory  Solid State Physics and Electronics Lab | * Introduced students to details of solid state and Electronics |
| 8. | II | PHYS304TH+IA  +TU | Nuclear and Particle Physics Theory  Nuclear and Particle Physics Tutorial | * Introduced students to Nuclear and particle Physics. |
| 9. | II | PHYS307TH+IA  PHYS307SE | Radiation Safety |  |
| 10. | III | PHYS310TH  PHYS310IA  PHYS310SE | Renewable Energy and Energy Harvesting | * Describe sources and uses of energy. * Define renewable and non-renewable energy. * Provide examples of common types of renewable and nonrenewable resources. * Understand and explain general ways to save energy at a personal, community and global level. * Understand and explain, in general terms, how passive solar heating, hydropower and wind power work. * Describe some general characteristics of solar power, hydropower and wind power. * Understand the benefits and disadvantages to using renewable resources |

**BSc with Zoology**

| **Sr.**  **No.** | **Class/Year** | **Code** | **Course** | **Expected Outcome** |
| --- | --- | --- | --- | --- |
| 1. | I | ZOOL101 TH+ PR | Animal Diversity | Classification of non chordates and chordates with examples |
| 2. | I | ZOOL102 TH+ PR | Comparative Anatomy & Development Biology of Vertebrates | Differences in different physiological systems and embryological development in vertebrates |
| 3. | II | ZOOL201 TH+PR | Physiology and Biochemistry | Different human physiological system and metabolic processes; structure of biomolecules and molecular mechanisms of various metabolic processes such as respiration |
| 4. | II | ZOOL202  TH+ PR | Genetics & Evolutionary Biology | Understanding of basic concepts of heredity and variation in the organisms, also provides information about causes of various genetic abnormalities; different evolutionary events |
| 5. | II | ZOOL203  TH | Medical Diagnostics | Various bio medical diagnostic techniques such as CT scan, MRI and X-rays |
| 6. | II | ZOOL204  TH | Apiculture | Culturing of the honey bees, their social life, techniques involved in apiary and different bee diseases |
| 7. | III | ZOOL301  (A)TH+PR | Applied Zoology | Usefulness of organisms and their benefits to mankind as well as disease causing organisms which spread various diseases like malaria, dengue and sleeping sickness |
| 8. | III | ZOOL302  TH+PR | Immunology | Human immune system and various cells and organs of the body playing role in immunity. |
| 9. | III | ZOOL303  TH | Sericulture | Culturing and rearing of silk worm for the production of silk |
| 10. | III | ZOOL304  (B)TH | Aquarium Fish Keeping | Aquatic life of fishes and their culturing, production and transportation and different fish diseases |

**BA with Economics**

Programme Outcomes :

By studying economics at graduation level, student can develop the ability to :

* Explain terms, concept and theories of economics
* How a market function and prices and other economic variables are affected when there are changes in demand and supply factors
* Know and identify the main indicators of economic growth and how the changes can be brought in economic variable like income, output, employment etc.
* Identify the laws of failure of markets. Besides students gets acknowledged with the allocative mechanism of the economy especially in country like India where a large portion of population is still living below the poverty line and where government is seen trying hard to revive the inequality of income and wealth.
* Developed the ability to collect, process, interpret data including statistical methods
* Calculate, present and discuss statistic in descriptive manner. They can become professional by getting higher education and serve the nation in many fronts

| **Sr.**  **No.** | **Class/Year** | **Code** | **Course** | **Expected Outcome** |
| --- | --- | --- | --- | --- |
| 1. | I | ECONA101 | **Principles of Microeconomics-I** | * To know the problems of scarcity, different theories of consumer and producer equilibrium. * The equilibrium of firm under perfect competition, Monopoly and imperfect competition and also different theory of factor prices. * To know and calculate national income and different related concepts. The employment determination by classical and Keynesian money and banking. * To drive accelerator and multipliers and understand their working, inflation causes and measure to control, about IS-LM curves and balance of payment (BOP). * To know about the different consumer concept and consumer activities of Indian Economy. * The student will we able to understand the chronological evolution and development of different concept, and theories in economies. * The student can understand section wise economies of Himachal Pradesh viz agriculture, industry, service and economic infrastructure of HP. * The student will we able to distinguish among different concept of development, factors responsible for development or under development of an economy. * The student can understand different factor of rural area, the specific economic problem and solution for these problems. * The student can know and understand different concept of demography, theories of demography migration and role of population in economic growth. * The student will we able to know about theories of public finance govt. budget and its components. * The student will we able to know and understand money its function, banking system, central bank, marketing policy and financial market. |
| 2. | I | ECONA102 | **Principles of Microeconomics-II** |
| 3. | II | ECONA201 | **Principles of Macroeconomics-I** |
| 4. | II | ECONA202 | **Principles of Macroeconomics-II** |
| 5. | II | ECONA204 | **Economics Of Rural Development** |
| 6. | II | ECONA206 | **Demography** |
| 7. | III | ECONA303 | **Economy of Himachal Pradesh** |
| 8. | III | ECONA305 | **Development Economics** |
| 9. | III | ECONA310 | **Public Finance** |
| 10. | III | ECONA311 | **Money & Banking** |

**BA with English**

| **Sr.**  **No.** | **Class/Year** | **Code** | **Course** | **Expected Outcome** |
| --- | --- | --- | --- | --- |
| 1. | I | ENG CE 101 | English-1 Compulsory (B.A.&B.Com) | Curriculum designed to impart basic knowledge about English language and Literature. These courses are inclusive of genres such as Poetry, Prose, and story. These courses are elementary and practical introduction to the analytical and terminological distinctions that are relevant to the study of the structure of English words and sentences. Topics include: Word structure and word-formation, lexical and phrasal categories, grammatical functions and semantic roles, coordination and subordination, clause types, tense and aspect, mood, information structure. |
| 2, | II | & ENG CE 201 | English-II, Compulsory(B.A.&B.Com) | This is a continuation of first year compulsory course. This improves the language of the students |
| 3. | I | ENGAECC104 | Writing Skills (B.A., B.Sc.&B.Com.) | Skills in Writing letters, official/business correspondence, CV’s ,Diary entry ,Report writing and Interviews |
| 4. | I | ENG DSC102 | English Literature-I | Courses designed to give a student the following insights:  A. identifies and articulates the main themes in the text by discerning ideas and issues that recur throughout the text   * analyzing how plot, character, setting and atmosphere, and style synthesize to create meaning * making connections between literary texts and their knowledge of self, the world, other texts and other readers * exploring what texts reveal about their writers’ beliefs and perspectives   B. recognizes the significance of the contexts (e.g., cultural, historical, social, economic, political) in which texts are written, in shaping the texts’ main concerns  C. consider the ways in which texts explore socio -cultural practices, beliefs and values in relation to the human condition |
| 5. | I | ENGDSC 103 | English Literature-II |
| 6. | II | ENG DSC202 | British Literature(Play & Novel) |
| 7. | II | ENG DSC203 | Literary Cross Currents |
| 8. | II | ENGAEEC/SEC204 | Creative Writing :Book and Media Reviews | This course designed to give students the knowledge of literary terms and students build on connections between their literary text and other texts (e.g., poems, short stories, novels, and films) |
| 9. | II | ENGAEEC/SEC 205 | Translation Studies and Principles of Translation | Definition of Translation—translating from source language to target language Purpose of Translation—Translation as a literary, cultural, and knowledge bridge, self-other interaction & Approaches to Translation:  1. Domestication: Readability in the target language  2. Foreignisation: Faithfulness to the source language |
| 10. | III | ENGAEEC/SEC 301 | Technical Writing | Prepare Manual, Memorandum, Agenda, Minutes of a Meeting, And PowerPoint Presentation & also read the followings: Basic Research Methodology Project Report a) Format Margins Headings Indentation Pagination Type Face and Fonts Common Abbreviations & Data Analysis (i) Qualitative Interpretation (ii) Quantitative Interpretation |
| 11. | III | ENGAEEC/SEC 302 | Business Communication | Basic Forms of Communication like: Communication Models and Processes: Linear, Transitional and Interactive Effective Communication Principles of Effective Communication Formal and Informal Communication Barriers and Gateways to Communication Practices in Business Communication - Group Discussion - Mock Interview - Seminars - Individual and Group Presentations |
| 12. | III | ENG DSE 303 | Soft Skills | This course highlights the importance of soft skills Listening Skills: Comprehending Retaining, Responding, Barriers to Listening, over, coming Barriers to Listening Teamwork: Working Cooperatively • Contributing to groups with ideas, suggestions, and effort • Sense of Responsibility • Healthy respect for different opinions, customs, and Individual preferences Emotional Intelligence: Characteristics of Emotional Intelligence: • Self-Awareness • Self-Regulation • Motivation • Empathy • Social and Cultural Sensitivity |
| 13. | III | ENG DSE 304 | Academic Writing and Composition | The course gives the following details: Descriptive Analytical Persuasive Critical |
| 14. | III | ENG GE 306 | Contemporary India : Women and Empowerment | Key Concepts of the course are: Sex and Gender, Socialization, Discrimination - Gendered and Sexual, Stereotyping, Feminism, Patriarchy, Femininities and Masculinities, Transgender. |

**BA with Geography**

| **Sr.**  **No.** | **Class/Year** | **Code** | **Course** | **Expected Outcome** |
| --- | --- | --- | --- | --- |
| 1. | I | GEOGP101CC | Physical Geography | * The meaning, nature, scope and fundamentals of Physical Geography. * The Solar system and its functioning. * To examine the origin of the earth scientifically. * Understand and recognize the rock types and their formation. * Evaluate and understand the concept of cycle of the erosion. * Understand, explain and examine the process of weathering and internal structure of the earth. * Understand, explain and examine the structure and composition of atmosphere and various phenomenon occur in it. * Understand the mechanism of hydrological cycle. * Understand the phenomenon of Tides and oceanic currents |
| 2. | I | GEOGP102CC | General Cartography | * The historical background, meaning, nature, and scope of Cartography. * The map, its necessity, classifications and significance. * The different units of measurement through making of scales practically. * The map projection, their classification and preparation of maps with the help of these projections. Construct map projection of cylindrical, conical and zenithal types. * The statistical representation of the Data by using line graphs and bar diagrams. * The art of construction of climograph, hythergraph and different types of maps like Dot Map Isopleth Map and Choropleth Map. |
| 3. | II | GEOGP201CC | Human Geography | * The nature, scope and major subfields of Human geography. * The origin and distribution of races of mankind in the world. * The major cultural realms of the world. * Examine the causes of unequal distribution and density of the population. * The demographic transition theory. * Examine and evaluate the types and patters of rural and urban settlements. * The process of Urbanization in the world. |
| 4. | II | GEOGP202CC | Environmental Geography | * The meaning, nature, scope and fundamentals of Environmental geography. * The structure and functions of ecosystem. * Examine and evaluate the man and environment relationship along with the concepts of environmental determinism and possibilism. * Examine and evaluate Biomes , environmental Problems ,environmental protection Act and Environmental Policies of India |
| 5. | II | GEOGP203SEC | Regional Planning & Development | * The concept, need and types of regional Planning and methods of delineation of planning regions * Examine and evaluate the regionalization in India ,the agro ecological regions of India, Growth Pole Theory and Core Periphery model ,the development initiative programmes in India like ITDP, IWDP, BADP and Damodar Valley Corporation (DVC) |
| 6. | II | GEOGP204SEC | Remote Sensing &GPS | * The concept of remote sensing , types and various platforms. * Examine the aerial photographs and geometry of the aerial photography , EMR and interaction EMR with the atmosphere and earth surface and use of EMR in remote sensing ,the satellite sensors of LANDSAT and IRS, the visual interpretation of remote sensing images and the concept and use of GPS. |
| 7. | III | GEOGP 301 | Geographic Information System(PR) | * The meaning and scope of GIS along with its history. * Examine and evaluate data structure: vector and raster, georeffrencing and Editing * Practical exercise on land use land cover mapping through GIS software. |
| 8. | III | GEOGP 302 | Field Techniques &Survey  Based Project Report(PR) | * The role, value and importance of the field work. * Examine and evaluate the various methods of data collection, the questionnaire. * Write a project report on the basis of field visit and data collected and analysed. * Work in any social research project in future |
| 9. | III | GEOGP 303 | Geography of India | * Examine the location and major physiographic divisions of India. * Examine and evaluate the climatic factors and climate of India , the Soils of India ,the population and its attributes like: distribution, density, literacy and sex ratio in India, the settlements types and patterns along with problems of Urbanization in India and the power, agricultural and industrial resources in India. |
| 10. | III | GEOGP 304 | Disaster Management | * The concept of hazards, risk, vulnerability and disaster. * Examine the causes, impacts and distribution of landslide, earthquake and cyclones. * Human induced disasters like forest fires and road accidents * Examine and evaluate the mitigation process , the NDMA and Disaster management at community level * Do`s and dont`s during the disaster. |
| 11. | III | GEOGP 305 | Disaster Risk Reduction | * Understanding risk, its types and assessment. * To study the risk reduction measures and major national initiative. |
| 12. | III | GEOGP 306 | Sustainability & Development | * The concept of sustainable development. * Examine and evaluate the sustainable development goals of the millennium, the national strategies and international experience of the development. * The concept of inclusive development with special reference to health and education * Development policies and programs |

**BA with Political Science Program**

| **Sr.**  **No.** | **Class/Year** | **Code** | **Course** | **Expected Outcome** |
| --- | --- | --- | --- | --- |
| 1. | I | POLS-101 | Introduction to Political Theory | Students know about different theories and concepts of political science |
| 2. | I | POLS-102 | Indian Govt.& Politics | Students get awareness about their constitution and their rights and duties |
| 3. | II | POLS201 | Comparative Govt.& Politics |  |
| 4. | II | POLS202 | Introduction to International Politics | Understanding of current issues and interdependencies within global politics and area studies. |
| 5. | II | POLS203 | Legislative Support | process to acquaints the student broadly with legislative in India at various levels, to provide elementary skills to be part of a legislative support team |
| 6. | II | POLS204 | Public Opinion &Survey Research | It will familiarize the students with how to conceptualize and measure public opinion using quantitative methods with special reference to India |
| 7. | III | POLS 301 A  OR  POLS 301 B | Themes in Comparative Political Theory  Administration &Public Policy : Concepts & Theories | To appreciate the value and distinctiveness of comparative political theory |
| 8. | III | POLS 302 A  POLS 302 B | Democracy &Governance  OR  Understanding Globalization | working of democratic institutions to explain the institutional aspect of democracy and how institutions function within a constitutional framework |
| 9. | III | POLS 303 | Democratic Awareness Through Legal Literacy | Students get awareness through laws about their rights |
| 10. | III | POLS 304 | Conflict &Peace Building |  |
| 11. | III | POLS 305 | Society, Economy& Politics in Himachal Pradesh |  |
| 12. | III | POLS 306 | Human Rights, Gender & Environment | know about history of human rights |

**B.A. with Hindi**

| **Sr.**  **No.** | **Class/Year** | **Code** | **Course** | **Expected Outcome** | |
| --- | --- | --- | --- | --- | --- |
| 1. | I | Hindi-102 | हिंदी साहित्य का इतिहास | हिंदी इतिहास का परिचय आदिकाल ,आधुनिक काल के बारे में जानकारी | |
| 2. | I | Hindi-103 | मध्यकालिन हिंदी कविता | मध्यकालीन कवियों और उनकी लिखी गई कविताओं की जानकारी | |
| 3. | I | Hindi-101 | प्रयोजनमूलक हिंदी | पत्र व्यवहार और कंप्यूटर के बारे में जानकारी | |
| 4. | II | Hind-202 | आधुनिक हिंदी कविता | आधुनिक कवियों और उनकी कविता के बारे में जानकारी | |
| 5. | II | Hind-203 | हिंदी गद्य साहित्य | उपन्यास कहानी और निबंध के बारे में जानकारी | |
| 6. | II | Hind-204 | कार्यकारी हिंदी | हिंदी भाषा के माध्यम से पत्रों के प्रारूप शब्दावली और कंप्यूटर के बारे में जानकारी | |
| 7. | II | Hind-206 | अनुवाद विज्ञानं | अनुवाद के प्रकार ,कार्यकारी अनुवाद भाषा के अनुवाद शब्दावली की जानकारी | |
| 8. | II | Hind-201 | अनिवार्य हिंदी | कवि लेखक कहानी और निबंध के बारे में जानकारी | |
| 9. | III |  | रंग आलेख और रंगमंच | नाटक और नाटककारों के बारे में जानकारी | |
| **B.A. with Sanskrit** | | | | | |
| **Sr.**  **No.** | **Class/Year** | **Code** | **Expected Outcome** | |
| 1. | I | SKT-DSC-101 | संस्कृत काव्य के द्वारा निति इतिहास और साहित्य की अजस्रधारा का सम्मान्य जीवन में व्यवहार व् निष्पादन | |
| 2. | I | SKT-DSC-102 | संस्कृत साहित्य के भाषा सौष्ठव तथा भाषा संरचना का काव्यातमक प्रयोग। | |
| 3. | I | SKT-DSC-104 | भारतीय अध्यात्म चेतना के चरम ग्रंथो के द्वारा अध्यातम का परिशीलन | |
| 4. | II | SKT-DSC-201 | भारतीय बालिकाओ में से एक नाट्यकला का परिचय और अध्यन | |
| 5. | II | SKT-DSC-202 | भाषिक सरचना का शास्त्रीय अध्यन | |
| 6. | II | SKT-AEEC-205 | जीवेत शरद शतम की भावना और अनुशीलन का अध्यन | |
| 7. | II | SKT-AEEC-206 | साहित्यक अनुबन्धन का शास्त्रीय अध्ययन | |
| 8. | III | SKT-DSC-301 | व्यक्तिगत मानवता के विकास का अनुशाशन अध्ययन | |
| 9. | III | SKT-DSC-302 | साहित्य निर्माण के सिधांतिक सरूप का अध्ययन | |
| 10. | III | SKT-DSC-303 | भारतीय आर्ष पद्ति के अनुसार देहिक मानसिक व् आद्यात्मिक उन्नति के सूत्रों का अध्ययन | |
| 11. | III | SKT-DSC-304 | भाषा की उत्पति विकास व्यवहार का अध्ययन | |
| 12. | III | SKT-DSC-305 | जीवन के विभिन पक्षों के रंग कर्म का तात्विक अध्ययन | |
|  |  | SKT-DSC-306 | सुखमय जीवन के लिए ऋषियों द्वआरा निर्धारित वस्तु निर्माण विधि का शिक्षण | |

**BA with History: Course Outcome**

| **Sr. No.** | **Ciass/Year** | **Course Type & Course Code** | **Course Title** | **Expected Outcomes** |
| --- | --- | --- | --- | --- |
| 1. | I | **DSC-1A: HIST(A)101** | 1. History of India From the Earliest Times up to 300 CE | Students learned about   * Importance of Indian culture and its rich diversity. Students learned about main * Physical features of India and sources of Indian History. |
| 2. | I | **DSC-1B: HIST(A)102** | 2. History of India From C. 300 to 1206 | Students learned about   * Gupta Administration, Golden Age of Indian History and rich literary development. * The changes in political, social, economic and cultural scenario happening during this chronological span. * It will also teach them how to study sources to the changing historical processes. |
| 3. | II | **DSC-1C: HIST(A)203** | 3. History of India From C. 1206-1707 | The course is expected to familiarize the student to theories of state, feudalism, political structure and different periods in history, based on the Indian examples from early medieval period. |
| 4. | II | **DSC-1D: HIST(A)204** | 4. History of India From C.1707-1950 | The British signed treaties and made military and trading alliances with many of the independent states that made up India. The British were very effective at infiltrating these states and gradually taking control. They often left the local princes in charge of the various parts of India. Up to independence. |
| 5. | II | **SEC-1 : HIST(A) 213** | **1.** Historical Tourism | Students learn about our heritage. The main positive outcomes of tourism include economic benefits such as tax revenues, job creation, or diversification of local economies |
| 6. | II | **SEC-2 : HIST(A) 215** | **3.** An Introduction to Archaeology | By the end of the course students will be able to understand basic features of various theories and thoughts used in archaeological interpretations. They will also learn the practical methods of doing archaeological work. |
| 7. | III | **DSE:1A: HIST(A)305** | 1. Modern and Contemporary World History I: 1871-1919 | Students learn about the modern world history, the modern era or the modern period is the global, linear, historical-geographical approach to the time frame that comes post the classical history. |
| 8. | III | **DSE:1B: HIST(A)307** | 3. Modern and Contemporary World History II:1919-1992 | In this course the contemporary history includes the span of historical events starting from 1945. These events are most relevant to the present time and scenario. |
| 9. | III | **SEC-3 : HIST(A) 317** | Indian History and Culture | The main objective of this course will be to introduce the students to   * The concept of history and culture of India . * The meaning of the term, its broader socio-economic processes and political outcome are few important things the participants are expected to learn. |
| 10. | III | **SEC-3 : HIST(A) 319** | Introduction to Indian Art | * The student is prepared to identify the characters and features of Indian art from different regions of the given period. * The course also helps them to understand art  as source for historical studies |
| 11. | III | **GE-1 : HIST(A)310** | 2. Social Religious Reform Movements in India (19th and 20th Centuries) | The main objective of the course is:  How socio-religious reform movements were strive to sustain the social justice in India and also curbing on the social evils and promote women education in the society. |
| 12. | III | **GE-2 : HIST(A) 312** | 4.History of Himachal Pradesh | This subject taught to provide knowledge about culture and heritage of Himachal Pradesh |

**B. Com .**

**Programme Outcome**

Bachelor of commerce develops in students the ability to understand current forms of business organization and challenges faced by it, change in business environment which is caused mainly by Technology, Political, Economic and Demography of nation. Fabricate understanding about importance of Finance to any organization (Profit or Non Profit Org.): Specially planning of finance at micro and macro level of Economy. Students are able to illustrate their understanding about Security Market and Securities in India, and also able to describe various Investment avenues available for an individual Programme articulate the knowledge of Accounting concept, principles to find out profits of business organization, interpretation of its financial result . Students are also able to interpret financial statements of sole proprietor, Partnership Firms and company. Develops understanding about various Laws which affect business such as Business Law, Company Law, Income Tax and practices. Students get familiar with Banking, Insurance and other private and public sectors of Economy. Develops understanding about various Mathematical and Statistical approaches to interpret Data develops understanding about qualities of Leadership and Entrepreneurship.

| Course Code | Course Title | Expected Out come |
| --- | --- | --- |
| BC 1.1 | FINANCIAL | The objective of this paper is to help students to |
| ACCOUNTING | acquire conceptual knowledge of the |
|  | Financial accounting and to impart skills for |
|  | recording various kinds of business |
|  | transactions |
| BC 1.2 | BUSINESS | The course aims to provide basic knowledge to |
| ORGANISATION AND | the students about the organization and |
| MANAGEMENT | Management of a business enterprise |
| BC 1.4 | BUSINESS | The objective of this course is to familiarize |
| MATHEMATICS AND | students with the applications of mathematics |
| STATISTICS | and statistical techniques in business decision making. |
|  |  |  |
| BC 2.1 | COMPANY LAW | The objective of the course is to impart basic |
| knowledge of the provisions of the |
| Companies Act 2013. Case studies involving |
| issues in company law are required to be discussed |
|  |  |  |
| BC 2.2 | INCOME TAX LAW | To provide basic knowledge and equip students |
| AND PRACTICE | with application of principles and |
|  | provisions of Income-tax Act, 1961 and the |
|  | relevant Rules |
| BC 2.3 | COMPUTER | To provide computer skills and knowledge for |
| APPLICATIONS IN | commerce students and to enhance the |
| BUSINESS | student understands of usefulness of |  |
|  | information technology tools for business |
|  | operations. |
| B.C. 2.4 | CORPORATE | To enable the students to acquire the basic |
| ACCOUNTING | knowledge of the corporate accounting and to |
|  | learn the techniques of preparing the financial |
|  | statements. |
| BC 2.5 | COST ACCOUNTING | To acquaint the students with basic concepts |
| used in cost accounting, various methods |
| involved in cost ascertainment and cost |
| accounting book keeping systems. |
| BC 2.6 | E-COMMERCE | To enable the student t o become familiar with |
| the mechanism for conducting |
| Business transactions through electronic means. |
| BC 3.1 | PRINCIPLES OF | The objective of this course is to provide basic |
| MARKETING | knowledge of concepts, principles, tools and |
|  | Techniques of marketing. |
| BC 3.2 | FUNDAMENTALS OF | To familiarize the students with the principles |
| FINANCIAL | and practices of financial management. |
| MANAGEMENT |  |
| BC 3.3 | ENTREORENEURSHIP | The purpose of the paper is to orient the learner |
| toward entrepreneurship as a career option and |
| creative thinking and behavior. |
| BC 3.4 | PRINCIPLES OF | To make the students familiar with basic |
| MICRO ECONOMICS | concepts of micro economics. |
|  | |  |
|  |