

Programme Outcomes

**LBS Govt College Saraswati Nagar, Dsitt Shimal H.P. Affiliated to Himachal Pradesh University ,
Summer Hill Shimla -5.**

I. BSc Life Sciences (Botany , Chemistry and Zoology) & BSc Physical Science(Physics Chemistry and Mathematics)

1. BSc Botany

Programme outcomes (POs), Program Specific outcomes (PSOs) and Course outcomes (COs) of the Programmes offered by the College .

| Programme code | Programme Name | Department |
|-----------------------|--------------------------|-------------------|
| BOTA | BSc Life Sciences | Botany |

Programme outcome (POs): As per Syllabus (BOT: Botany):- The BSc Life Sciences (Botany). The curriculum is designed to equip students with subject domain knowledge and technical skills pertaining to plants knowledge. This aims to equip the students in all the areas of plant sciences with a unique combination of core, elective papers, Skill enhancing and with other significant interdisciplinary components as per CBCS. The students are made aware about the social and environmental issues, significance of plants and their relevance to the regional & national economy.

Programme Specific Outcomes (PSOs):

As per Syllabus (BOT, Botany):- Course Outcomes (COs):

PO1. Understanding of Plant Diversity and its importance in the maintenance of ecological balance.

PO2. Students learn to carry out practical work, in the field and in the laboratory, interpreting plant morphology and anatomy, Plant identification, Vegetation analysis techniques

PO3. Apply the knowledge of basic science, life sciences and fundamental process of plants.

PO4. Apply modern techniques and instruments for Biochemical estimation, Molecular Biology, Biotechnology, Plant Tissue culture experiments, cellular and physiological studies of plants with an understanding of the applications in human life.

PO5. Apply the knowledge gained from the studies for the upliftment of society via addressing health, environmental issues, food scarcity etc. They become competent enough in various analytical and technical skills related to plant sciences.

DISCIPLINE SPECIFIC COURSES (DSC)

1 Name of the course (Paper): Biodiversity (Microbes, Algae, Fungi and Archegoniates)

Course Code: BOTA 101

Course Outcome:

Course Objectives: This course aims to increase the understanding of the students about the diversity of lower plants, their classification, structure and growth.

Learning Outcomes: The students will develop understanding about the diversity, identification, classification, reproduction and economic importance of lower plants.

2. Name of the course (Paper): Plant Ecology and Taxonomy

Course Code: BOTA 102

Course Outcome:

Course Objectives: This course aims to introduce the concepts and principles of ecology, biological diversity, conservation, sustainable development, population, community, pollution and ecosystem structure and function. To understand about the diversity of plants, their Description, Identification, Nomenclature and their classification including recent advances in the field

Course Learning Outcomes: 1.The students will be learning to understand the concept, types, development and functions of various ecosystems and their communication application of these concepts to solve environmental problems. The various environmental factors governing these ecosystems are also clearly understood. .2. The students will know about the systematic position of Genera, Species and, Families. They will develop knowledge about plant nomenclature, identification and structure of flowers.

3. Name of the course (Paper) : Plant Anatomy and Embryology

Course Code: BOTA 201

Course Outcome:

Course Objectives: - To understand the individual cells and also tissues simultaneously This course aims at making the students acquainted with the fundamentals and present understanding of the mechanisms associated with development, differentiation and structure of various plant organs, the metabolic and physiological changes occurring in them. Also imparting an insight into the internal structure and reproduction of the most evolved group of plants, the Angiosperm.

Course Learning Outcomes: Student will develop the understanding of growth, development and reproduction in plants as well as understand the physiological and metabolic changes happening along with the environmental impact. They will also understand the process of reproduction in higher plants

4 Name of the course (Paper): Plant Physiology and metabolism

Course Code: BOTA 202

Course Outcome:

Course Objectives: This course aims to educate student about the mechanism and physiology life processes in plants. It focuses on the plant nutrient uptake and translocation, photosynthesis, respiration and nitrogen metabolism.

Course Learning Outcomes: The students will be able to understand the various physiological life processes occurring in plants. They will also gain knowledge about the various uptake and transport mechanisms. They understand the role of various hormones, signalling compounds, thermodynamics

and enzyme kinetics. During the course students will enrich themselves with the phenomenon of metabolism of primary and secondary metabolites and their role in plants

DISCIPLINE SPECIFIC ELECTIVE (DSE)

1. Name of the course (Paper) : Economic Botany and Biotechnology

Course Code: BOTA 301

Course Outcome:

Course Objectives: The paper deals with origin, diversification, utility and conservation strategies of natural resources. It focuses the roles of various organization related to the plant sciences. This course would also provide students with an understanding of principles and techniques of plant tissue culture, concepts and methods associated with development and analysis of transgenic plants, and their applications in basic and applied research.

Course Learning Outcomes: 1. They understand the pattern origin, diversification and cultivation of plants in nature. They are able to design the strategies for conservation of these natural resources.

2. The students will learn about the Concepts, tools and techniques related to in vitro propagation of plants. Different methods used for genetic transformation of plants, use of Agrobacterium as a vector for plant transformation, components of a binary vector system. Various case studies related to basic and applied research in plant sciences using transgenic technology.

2. Name of the course (Paper) : Analytical Techniques in Plant Sciences

Course Code: BOTA 302

Course Outcome:

Course Objectives To make the students acquaint with different tools and techniques used in research work.

Course Learning Outcomes: The students have first-hand knowledge of all the major equipment used in biological sciences. To make the students perfect in handling the major equipments.

3. Name of the course (Paper) : Cell and Molecular Biology

Course Code: BOTA 303

Course Outcome:

Course Objectives: This course is designed to provide a contextual and inquiry based learning of modern day advances in the field of recombinant DNA technology. The students will learn more about the fundamentals of cell.

Course Learning Outcomes: Students will acquire understanding of the Basic principles and modern age applications of recombinant DNA technology. Learn molecular and technical skills along with applications of the instrumentation. Designing/conducting experiments to show chromosomes at metaphasic stage.

4 .Name of the course (Paper): Bioinformatics

Course Code: BOTA 304

Course Outcome:

Course Objective: The course consists of the utilization of IT in biological sciences, with focus on basic parameters like computer design, OS, Networking, Databases design and up-gradation and various tools and software for studying the various biological molecules.

Course Learning Outcome: They will developed firm base for hardware, software, networking, processing of computers. The students are able to understand the designing and function of various databases and bioinformatics resources.

5. Name of the course (Paper) : Genetics and Plant Breeding

Course Code: BOTA 305

Course Outcome:

Course Objectives: The paper deals with Mendelian and non-Mendelian inheritance, quantitative genetics, molecular markers and linkage mapping, prokaryotic and eukaryotic genome-structure, gene function and regulation, epigenetics, crop breeding and crop evolution.

Course Learning Outcomes: To understand the pattern of inheritance in various life forms. To develop a strong fundamentals basics for further molecular studies. To understand the techniques of plant breeding and crop improvements.

Skill Enhancement Courses

1. Name of the course (Paper) : Biofertilizers

Course Code: BOTA 203

Course Outcome:

Course Objectives: The paper deals with various Biological fertilizers available in nature. Various types of fertilizers and their advantages and disadvantages, Brief account of microbes used as biofertilizers, Marketable forms of biofertilizers.

Course Learning Outcomes: 1. They understand the nature and mass production of Biological organisms used as Biofertilizers. 2. To develop a strong fundamentals basis for organic farming in future.

2. Name of the course (Paper) : Gardening and Floriculture

Course Code: BOTA 204

Course Outcome:

Course Objectives: Understand the propagation and cultural practices of useful ornamental plants. Designing and laying of Gardens.

Course Learning Outcomes: Understand the basic concepts of landscaping and garden designing. Inculcate interest in landscaping, gardening and floriculture.

3. Name of the course (Paper) : Medicinal Botany and Ethnobotany

Course Code: BOTA 306

Course Outcome:

Course Objectives: The paper deals with History and Use of Medicinal Plants. Important medicinal plants are also documented. Introduction to indigenous systems of medicines- Ayurveda, Unani and Siddha system of medicine. Endangered taxa and forest management (participatory forest management).

Course Learning Outcomes: 1. They understand the use of medicinal plants and its conservation.

2. To develop a concept of use, conserve and propagate medicinal plants. 3. To develop interest to conserve endangered taxa.

4. Name of the course (Paper) : Mushroom Cultivation Technology

Course Code: BOTA 307

Course Outcome:

Course Objectives: The paper deals with various type of edible mushroom available in the nature with its nutritional values. . Types of foods prepared from mushroom. Research Centres -National level and Regional level. Cost benefit ratio - Marketing in India and abroad,

Course Learning Outcomes: 1. To learn the technique of cultivation of mushrooms , hence enhancing their skill in future for self-employment.

2. BSc ZOOLOGY

U.G.C. Choice Based Credit System

(CBCS) Annual Pattern UG Courses

Codes of Courses

| Year | S.No. | Name of the Course | Codes of the Courses | Credits (TH + PR) |
|----------------------------|-------|---|----------------------------|-------------------|
| 1st Year | | Discipline Specific Courses (DSC) | | |
| | 1. | Animal Diversity (DSC IA) | ZOOL 101 TH ZOOL 101 PR | 4 + 2 |
| | 2. | Comparative Anatomy and Developmental Biology of Vertebrates (DSC IB) | ZOOL 102 TH ZOOL 102 PR | 4 + 2 |
| 2nd Year | | Discipline Specific Courses (DSC) | | |
| | 3. | Physiology and Biochemistry (DSC IC) | ZOOL 201 TH ZOOL 201 PR | 4 + 2 |
| | 4. | Genetics and Evolutionary Biology (DSC ID) | ZOOL 202 TH ZOOL 202 PR | 4 + 2 |
| | | Skill Enhancement Courses (SEC) | | |
| | 5. | Medical Diagnostics (SEC I) | ZOOL 203 TH | 4 |
| | 6 | Apiculture (SEC II) | ZOOL 204 TH | 4 |
| 3rd | | Discipline specific Elective (DSE) | | |

| | | | | |
|-------------|-----|---|--|-------|
| Year | 7. | Applied Zoology (DSE IA) OR Animal Biotechnology OR Aquatic Biology | ZOOL 301 (A) TH ZOOL 301 (A) PR OR ZOOL 301 (B) TH ZOOL 301 (B) PR OR ZOOL 301 (C) TH ZOOL 301 (C) PR | 4 + 2 |
| | 8. | Insect, vector & diseases (DSE IB) OR Immunology OR Reproductive Biology | ZOOL 302 (A) TH ZOOL 302 (A) PR OR ZOOL 302 (B) TH ZOOL 302 (B) PR OR ZOOL 302 (C) TH ZOOL 302 (C) PR | 4 + 2 |
| | | Skill Enhancement Courses (SEC) | | |
| | 9. | Sericulture (SEC III) | ZOOL 303 TH | 4 |
| | 10. | Aquarium Fish Keeping (SEC IV) OR Research Methodology | ZOOL 304 (A) (TH) OR ZOOL 304 (B) TH | 4 |

ZOOLOGY PROGRAMME :

Department of Zoology is distinctive internationally for its focus on whole organism biology. It makes students to understand structure, behaviour, evolutionary processes, relationship among diverse group of animals, and their relation with nature using variety of outlooks from genes to molecular and cellular biology, physiology, anatomy, taxonomy and ecology.

The department was established with an aim to provide quality education to the students to contribute for the development of Animal Sciences and Zoological studies and also towards their holistic progress with the help of well-designed course work and co-curricular programmes.

The Department tries to achieve the overall goals and objectives of the college and also focuses on the following special departmental objectives:

- To train students in a wide range of science-based skills that provide the learning base for future careers in disciplines of teaching, research and management such as health sciences, agriculture, fisheries, environmental management and emerging biotechnology.
- To provide quality education and inculcate the spirit of resource conservation and love for nature.
- To motivate the students for self employment in various applied branches of Zoology.
- To impart value based education and make them members of civil society and provide opportunities for professional and personal development through curricular and co-curricular activities.
- To offer periodic activities like quizzes, seminars, declamations, debates, power point presentations by the department to provide academic excellence to undergraduate students.
- To conduct various academic and co curricular activities throughout the year to shape up students into smart and confident individuals with emphasis on personality development and career building.
- To provide constructive feedback on their progress, individual student is assessed throughout the year in their written work, practical work, project work and participation in various curricular and co- curricular activities organised time to time.
- The faculty is constantly engaged with the students so as to boost up their morale and curiosity. Student grievances are also taken care of by the faculty members.

2. FUTURE CAREER PROSPECTS:

Zoology is a subject for the B.Sc. students of Medical stream. It is the branch of science which deals with the study of animal kingdom including the classification, structure, distribution, development, heredity, embryology, and evolution of all the animals. This subject is offered for candidates who are interested in the study of animals. Department aims to provide the students with the knowledge of proper ethical and professional practices relevant to Zoology. After completion of B.Sc. (Medical) candidates can opt for further higher studies such as:

- Master of Science in Zoology
- Master of Science in Applied Zoology (Fisheries, Environmental science, Ecology Entomology, Microbiology, Biotechnology)
- Doctorate of Philosophy in Zoology

3. PROGRAMME OUTCOMES:

- **Career opportunities:** A student with graduation in Zoology has a vast range of career opportunities in the field of Research, Forensics, Teaching, Wildlife Biologist, Administrative Services, Fisheries, Poultry Farms, Apiculture, Sericulture, Medical Laboratories, Zoo Curators, Wildlife Educator and Museum Curators, Animal Behaviourist, Conservationist etc.
- **Problem solving skills:** Students will be able to apply the fundamental concept of zoological science through accessing data and literature. They will be able to apply the knowledge to solve any problem relating animal science.
- **Leadership and team work:** Students will be able to function effectively as an individual, as a member or a leader in a team.

- **Research Aptitude:** Graduates develop research skills which include the ability to gather information about the topic, review that information and analyze and interpret the information in a manner that brings them to a solution which improves their cognitive areas.
- **Communication Skills:** Students studied from Science background is expected to have a good communication skills. They develop insight and improve their analytical communication and professional skills.
- **Social welfare:** Well-designed curriculum stresses on scientific reasoning and problem solving. Furthermore, practical and theoretical skills gained in this programme will be helpful in designing different public health strategies for social welfare.
- **Self-reliance:** The students will become confident and self-sufficient through constant learning and knowledge on diverse areas of the subject.

4. PROGRAMME SPECIFIC OUTCOMES:

1. **Scientific Knowledge:** Students will be able to identify, classify and differentiate major groups of organisms and understand their phylogenetic relationships. They will be able to explain how theory of evolution offers scientific explanation for the unity and diversity of life on earth and can use specific examples to explicate how descent with modification has shaped animal morphology, physiology and behaviour. They will be able to explain the functioning of organisms at gene, cellular, tissue, organ and organ-system level and integrate and analyze the information to formulate arguments and critically evaluate scientific claims. Students will be able to acquire complete knowledge of disciplinary as well as allied biological sciences.
2. **Professional skills:** Understand the applications of biological sciences in apiculture, sericulture, aquaculture, poultry, agriculture, enzymology, immunology, pest control and medicine etc.
3. **Environmental concerns:** Students will be able to relate the physical features of environment to the structure of population, communities and ecosystems. This will make them recognize the dire and urgent need to conserve the ecosystems and its components worldwide.
4. **Practical Outcomes:** Practical activities have huge significance in the learning process which improves engagement and knowledge retention because students learn more easily by actually ‘doing’ activities. It also enhances the technical skills for experimental purposes. During the course students learn the practical skills and get able to use basic laboratory techniques and biological instrumentation correctly, preparing them for higher studies. They learn to work in team and develop skills to understand the process of scientific investigation and develop a broad understanding of scientific concepts.

5. COURSE OUTCOMES:

| Year | S.No. | Name of the Course | Course Outcomes |
|-------------------------|-------|----------------------------|---|
| 1 st Year | 1. | Animal Diversity | <ul style="list-style-type: none"> • Understand characteristic features of diverse group of fauna present on this earth. • To understand taxonomic positions of these animals. • Phylogenetic relationship among the animals. • Understand the process of evolution |
| | 2. | Comparative anatomy | <ul style="list-style-type: none"> • To understand anatomy and different physiological systems of animals. |

| | | | |
|----------------------------|-----|---|--|
| | | and developmental biology of vertebrates | <ul style="list-style-type: none"> To understand evolution and increasing complexity of physiological systems in higher groups of animals. Understand the development of embryo, various organs, organ-systems, placentation, implantation, IVF, ageing and regeneration etc. |
| 2nd Year | 3. | Physiology and biochemistry | <ul style="list-style-type: none"> Understand the functioning of various physiological systems of vertebrates including human beings and abnormalities related to these systems. Understand medical techniques and procedures related with functioning of physiological systems. To understand structure and functions of bio/macromolecules of life and intermediary metabolism. |
| | 4. | Genetics and evolutionary biology | <ul style="list-style-type: none"> Understand the structure and functioning of gene, DNA, RNA, chromosomes, genome, mutations, variations, laws of heredity, gene regulation etc. To know the theories and processes of evolution. Types of evolution, adaptive radiations, geological time scale, fossils and geographical realms. |
| | 5. | Medical diagnostics | <ul style="list-style-type: none"> Understand various laboratory techniques. Diagnosis methods of various diseases. |
| | 6. | Apiculture | <ul style="list-style-type: none"> Learning different species of honey bee. Composition and uses of honey. Understand requirements, scenario and scope of bee- keeping industry. |
| 3rd Year | 7.1 | Applied Zoology OR | <ul style="list-style-type: none"> Understand practical applications of zoological sciences. Life cycle of important parasites/pests. Understand pest control. |
| | 7.2 | Animal Biotechnology OR | <ul style="list-style-type: none"> Understand various biochemical/biotechnological processes and techniques. To understand cell/tissue- culture, and genetic- engineering. To understand industrial biotechnology including production of enzymes, hormones, drugs, metabolites, monoclonal antibodies etc. |
| | 7.3 | Aquatic biology | <ul style="list-style-type: none"> To understand life inside water. To know features, taxonomic positions and importance of these aquatic creatures. |
| | 8.1 | Insect, vector and diseases OR | <ul style="list-style-type: none"> To understand the morphology and life cycle of important insect vectors and diseases transmitted by them. Understand different types of host, host – parasite interactions. Epidemiology, pathogenicity, treatment and prophylaxis of these diseases. |

| | | |
|------|---|--|
| 8.2 | Immunology OR | <ul style="list-style-type: none"> To understand various components (cells and organs) of immune system. Functioning of immune system. To understand complement system, MHC, hypersensitivity, anaphylactic reactions and vaccines. |
| 8.3 | Reproductive biology | <ul style="list-style-type: none"> To understand reproduction and reproductive organs. |
| 9. | Sericulture | <ul style="list-style-type: none"> Understand different genera and species of silkworm. Sericulture techniques and industry. |
| 10.1 | Aquarium fish keeping OR | <ul style="list-style-type: none"> Understand indigenous and exotic fishes of aquarium. Aquarium keeping techniques and significance. |
| 10.2 | Research methodology | <ul style="list-style-type: none"> Understand different methods to be used in research. Paper writing and publishing. To understand writing of hypothesis. |

3.BSc CHEMISTRY

Under Graduate Program in Chemistry Under Choice Based Credit System (CBCS)

| | |
|----------------------------------|------------------|
| Name of the Department | Chemistry |
| Year of Establishment | 1986 |
| Names of Programmes / Courses | UG |
| No. Of Teaching Posts Sanctioned | 02 |
| No. Of Teaching Posts Filled | 02 |

Course Structure: B.Sc. with Chemistry (UG yearly programme w.e.f. 2018)

| Year | Course Type | Course Code | Course Title | Credit |
|---------|----------------|-------------------------------------|---|--------|
| B.Sc. I | CORE COURSE-II | CHEM101TH CHEM101IA CHEM101PR | ATOMIC STRUCTURE, BONDING, GENERAL ORGANIC CHEMISTRY & ALIPHATIC HYDROCARBONS | 6 |

| | | | | |
|----------|--|-------------------------------------|--|---|
| | CORE COURSE-V | CHEM102TH CHEM102IA CHEM102PR | STATES OF MATTER, CHEMICAL KINETICS & FUNCTIONAL ORGANIC CHEMISTRY | 6 |
| B.Sc. II | CORE COURSE-VIII | CHEM201TH CHEM201IA CHEM201PR | SOLUTIONS, PHASE EQUILIBRIUM, CONDUCTANCE, ELECTROCHEMISTRY & ORGANIC CHEMISTRY | 6 |
| | CORE COURSE-XI | CHEM202TH CHEM202IA CHEM202PR | CHEMISTRY OF MAIN GROUP ELEMENTS, CHEMICAL ENERGETICS AND EQUILIBRIA | 6 |
| | SEC 1 | CHEM203TH CHEM203IA | BASIC ANALYTICAL CHEMISTRY | 4 |
| | SEC 2 | CHEM204TH CHEM204IA | FUEL CHEMISTRY & CHEMISTRY OF COSMETICS & PERFUMES | 4 |
| B.Sc.III | DISCIPLINE SPECIFIC ELECTIVES DSE:2A (CHOOSE ANY ONE FROM GIVEN THREE) | CHEM301TH CHEM301IA CHEM301PR | POLYNUCLEAR HYDROCARBONS, DYES, HETEROCYCLIC COMPOUNDS AND SPECTROSCOPY (UV, IR ,NMR) | 6 |
| | | CHEM302TH CHEM302IA CHEM302PR | INDUSTRIAL CHEMICALS AND ENVIRONMENT | |
| | | CHEM303TH CHEM303IA CHEM303PR | QUANTUM CHEMISTRY, SPECTROSCOPY & PHOTOCHEMISTRY | |
| | DISCIPLINE SPECIFIC ELECTIVES DSE:2B (CHOOSE ANY ONE FROM GIVEN THREE) | CHEM304TH CHEM304IA CHEM304PR | CHEMISTRY OF TRANSITION AND INNER TRANSITION ELEMENTS, COORDINATION CHEMISTRY, ORGANOMETTALICS, ACIDS & BASES | 6 |

| | | | | |
|--|-------|-------------------------------------|--|---|
| | | CHEM305TH CHEM305IA CHEM305PR | POLYMER CHEMISTRY | |
| | | CHEM306TH CHEM306IA CHEM306PR | MOLECULES OF LIFE | |
| | SEC 3 | CHEM307 | CHEMICAL TECHNOLOGY & SOCIETY AND BUSINESS SKILLS FOR CHEMISTRY | 4 |
| | SEC 4 | CHEM308 | PESTICIDE CHEMISTRY & PHARMACEUTICAL CHEMISTRY | 4 |

CHEMISTRY PROGRAMME

Studying chemistry is lucrative from many prospective and there are numerous benefits of studying it. Being a central science, chemistry is used in every aspect of a person's life from the food consumed to the products used. The learning outcome based curriculum in chemistry in particular will definitely help the teachers of the discipline to visualize the curriculum more specifically in terms of the learning outcomes expected from the students at the end of the instructional process. The learning outcome-based curriculum framework for B.Sc. degree in chemistry is intended to provide a broad framework and hence designed to address the needs of the students with chemistry as the core subject of study. The curriculum framework for the bachelor-level program in chemistry is developed keeping in view of the student centric learning pedagogy, which is entirely outcome-oriented and curiosity-driven. To avoid rote-learning approach and foster imagination, the curriculum is more leaned towards self-discovery of concepts. The curriculum framework focuses on pragmatist approach whereby practical application of theoretical concepts is taught with substantial coverage of practical and field works. The platform aims at equipping the graduates with necessary skills for chemistry-related careers, careers with general graduate-level aptitude and for higher education in chemistry and allied subjects.

SCOPE OF CHEMISTRY:

Chemistry is referred to as the science that systematically studies the composition, properties, and reactivity of matter at atomic and molecular level. The scope of chemistry is very broad. The key areas of study of chemistry comprise Organic chemistry, Inorganic Chemistry, Physical Chemistry and Analytical Chemistry. Organic chemistry deals with study of substances containing carbon mostly; inorganic chemistry deals with study of all other elements/compounds/substances and their chemical properties. Physical chemistry deals with applications of concepts, laws to chemical phenomena. Analytical chemistry, in general, deals with identification and quantification of materials. Development of new interdisciplinary subjects like nano-science, biomaterials, etc. and their applications from chemistry point of view added new dimension to materials chemistry. Thus, the degree programme in chemistry also intended to cover overlapping areas of chemistry with physics, biology and environmental sciences. Further, a broad

range of subjects such as materials chemistry, biomaterials, green chemistry, environmental chemistry, etc., has also been introduced which can be helpful for students/faculty members to broaden the scope of their studies and hence applications from job prospective point of view. In addition, industrial visits are encouraged and added to the curriculum in order to enhance better exposure to jobs/employment opportunities in industries, scientific projects and allied sectors. In addition, employability of B.Sc. Chemistry graduate is given due importance such that their core competency in the subject matter, both theoretical and practical, is ensured. To expand the employability of graduates, a number of skill development courses are also introduced in this framework.

PROGRAM OBJECTIVES:

The aim of bachelor's degree programme in chemistry is intended to provide:

- (i) Broad and balance knowledge in chemistry in addition to understanding of key chemical concepts, principles and theories.
- (ii) To develops students' ability and skill to acquire expertise over solving both theoretical and applied chemistry problems.
- (iii) To provide knowledge and skill to the students' thus enabling them to undertake further studies in chemistry in related areas or multidisciplinary areas that can be helpful for self employment / entrepreneurship.
- (iv) To provides an environment that ensures cognitive development of students in a holistic manner. A complete dialogue about chemistry, chemical equations and its significance is more important rather than mere theoretical aspects.
- (v) To provides the latest subject matter, both theoretical as well as practical, such a way to foster their core competency and discovery learning.
- (vi) To enable the graduates prepare for national as well as international competitive examinations, especially UGC-CSIR NET, GATE, GRE, UPSC Civil Services Exam. etc.

PROGRAM AND LEARNING OUTCOMES:

The program and learning outcomes based course curriculum framework of Chemistry is designed to persuade the subject specific knowledge as well as relevant understanding of the course. The academic and professional skills required for Chemistry-based professions and jobs are also offered by same course in an extraordinary way. In addition, the learning experiences gained from this course should be designed and implemented for cognitive development in every student. The practical associated with this course helps to develop an important aspect of the teaching-learning process.

PROGRAM OUTCOMES, PROGRAM SPECIFIC OUTCOMES AND COURSE OUTCOMES OF CHEMISTRY DEPARTMENT

- **Core competency:** The chemistry graduates are expected to know the fundamental concepts of chemistry and applied chemistry. These fundamental concepts would reflect the latest understanding of the field, and therefore, are dynamic in nature and require frequent and time-bound revisions.
- **Communication skills:** Chemistry graduates are expected to possess minimum standards of communication skills expected of a science graduate in the country. Graduates are expected to be well-versed in speaking and communicating their idea/finding/concepts to wider audience
- **Critical thinking:** Chemistry graduates are expected to know basics of cognitive biases, mental models, logical fallacies, scientific methodology and constructing cogent scientific arguments.
- **Problem-solving:** Graduates are expected to be equipped with problem-solving philosophical approaches that are pertinent across the disciplines;
- **Analytical reasoning:** Graduates are expected to acquire formulate cogent arguments and spot logical flaws, inconsistencies, circular reasoning etc.

- **Research-skills:** Graduates are expected to be keenly observant about what is going on in the natural surroundings to awake their curiosity.
- **Teamwork:** Graduates are expected to be team players, with productive co-operations involving members from diverse socio-cultural backgrounds.

PROGRAM SPECIFIC OUTCOMES:

The core courses would fortify the students with in-depth subject knowledge concurrently; the discipline specific electives will add additional knowledge about applied aspects of the program as well as its applicability in both academia and industry. The skill enhancement courses would further add additional skills related to the subject as well as other than subject. In brief the student graduated with this type of curriculum would be able to disseminate subject knowledge along with necessary skills to suffice their capabilities for academia, entrepreneurship and Industry. Depending upon interest, students can work in green chemistry, quantum and computational chemistry, polymers, water detoxification, organometallics, and electrochemistry, pharmaceutical industries and R&D sectors etc. or carry out analysis in laboratories under the guidance of expert faculties.

PRACTICAL OUTCOMES:

Students learn practical skills and are able to:

1. Follow practical instructions safely and accurately
2. Carry out variety of experimental procedures
3. Measure and interpret various analytical techniques.
4. Interpret quantitatively the results of their experiments
5. Understand the specific requirements of teaching laboratory based subjects.
6. Formulate Safety protocols and demonstrate a thorough understanding of health and safety requirements.
7. Assist others in safe and efficient laboratory work.

4. BSc MATHEMATICS

Programme Outcomes for B. Sc. Mathematics

The bachelor's degree in B.Sc. Mathematics is awarded to the students on the basis of knowledge, understanding, skills, attitudes, values and academic achievements. It has very broad scope in science, engineering and social sciences. This program gives students a firm base for higher studies in mathematics. Mathematics graduates will be able to reason mathematically, grow conceptual mathematical thinking, solve complex problems, transmit mathematical thoughts and acquire mathematical skills to pass various competitive examinations.

Programme Specific Outcome of B.Sc. Mathematics

Completion of this programme will enable the students to familiarize with suitable tools of mathematical analysis to handle issues and problems in mathematics and related sciences. They will be able to join teaching profession in primary and secondary schools. This programme will also help students to enhance their employability for government jobs, jobs in banking, insurance and investment sectors, data analyst jobs and jobs in various other public and private sectors. Students completing this programme will be able to present mathematics clearly and precisely, describe mathematical ideas from multiple perspectives and explain fundamental concepts of mathematics to non-mathematicians

COURSE OUTCOMES(1ST YEAR):-

COURSE TITLE:- Differential Calculus

COURSE CODE:-MATH101TH

After studying this course the students should be able to know about limit and continuity (epsilon and delta definition), types of discontinuities, differentiability of functions, successive differentiation, leibnitz's theorem. understand the concept of indeterminate forms, rolle's theorem, lagrange's & cauchy mean value theorems, taylor's theorem with lagrange's and cauchy's forms of remainder, taylor's series. Maclaurin's series understand the concept of concavity, convexity & points of inflexion, curvature, radius of curvature, center of curvature, asymptotes, singular points, double point, polar coordinates, relation between cartesian and polar coordinates. Study about functions of several variables (upto three variables): limit and continuity of these functions partial differentiation, euler's theorem on homogeneous functions, maxima and minima with lagrange multipliers method (two variables), jacobian (upto three variables)

COURSE TITLE:- Differential Equations**COURSE CODE:-MATH102TH**

This course makes the students to familiarize with basic theory of linear differential equations, wronskian, and its properties. First order exact differential equations. Integrating factors, rules to find an integrating factor. First order higher degree equations solvable for x, y, p. Clairut's form. methods for solving higher-order differential equations. Solving a differential equation by reducing its order. Linear homogenous equations with constant coefficients, linear non-homogenous equations. the method of variation of parameters with constant coefficients. The cauchy-euler equation and legendre equation. Simultaneous differential equations, total differential equations. Order and degree of partial differential equations, concept of linear and non-linear partial differential equations. formation of first order partial differential equations(PDE). Linear partial differential equation of first order, lagrange's method. Classification of second order partial differential equations into elliptic, parabolic and hyperbolic through illustrations only.

COURSE OUTCOMES(2nd YEAR)**COURSE TITLE:- REAL ANALYSIS****COURSE CODE:-MATH201TH**

On successful completion of the course students should be able to, understand about real line, bounded sets, suprema and infima, completeness property of \mathbb{R} , archimedean property of \mathbb{R} , intervals. Concept of cluster points and statement of bolzano-weierstrass theorem. Real sequence, bounded sequence, cauchy convergence criterion for sequences. Cauchy's theorem on limits, order preservation and squeeze theorem, monotone sequences and their convergence infinite series. Cauchy convergence criterion for series, positive term series, geometric series, comparison test, convergence of p-series, root test, ratio test, alternating series, leibnitz's test. tests of convergence definition and examples of absolute and conditional convergence. Sequences and series of functions, pointwise and uniform convergence. Mn-test, m-test, results about uniform convergence, power series and radius of convergence.

COURSE TITLE:- ALGEBRA**COURSE CODE:-MATH202TH**

This course offers the students to get conceptual knowledge about definition and examples of groups, examples of abelian and non-abelian groups, the group \mathbb{Z}_n of integers under addition modulo n and the group $U(n)$ of units under multiplication modulo n. Cyclic groups from number systems, complex roots of unity. Subgroups, cyclic subgroups, the concept of a subgroup generated by a subset and the commutator subgroup of group, examples of

subgroups including the center of a group. Cosets, index of subgroup, Lagrange's theorem, order of an element. Normal subgroups: their definition, examples, and characterizations, quotient groups. Definition of kernel, basic theorems of homomorphism. First theorem of homomorphism. Definition and examples of rings, examples of commutative and non-commutative rings: rings from number systems, \mathbb{Z}_n the ring of integers modulo n . Rings of matrices, subrings and ideals, definition of integral domains and fields.

COURSE TITLE:- LOGIC AND SETS

COURSE CODE:-MATH307TH (SEC)

After studying this course the students should be able to know about the introduction, propositions, truth table, negation, conjunction and disjunction. Implications, biconditional propositions, converse, contra positive and inverse propositions and precedence of logical operators. Propositional equivalence: logical equivalences. Predicates and quantifiers: introduction, quantifiers, binding variables and negations. Sets, subsets, set operations, the laws of set theory and Venn diagrams. Examples of finite and infinite sets. Finite sets and counting principle. Empty set, properties of empty set. Standard set operations. Classes of sets. Power set of a set. Difference and symmetric difference of two sets. Set identities, generalized union and intersections. Relation: product set, composition of relations, types of relations, partitions, equivalence relations with example of congruence modulo relation.

COURSE TITLE:- VECTOR CALCULUS

COURSE CODE:-MATH310TH (SEC)

On successful completion of the course students should be able to know about Scalar and vector product of three vectors. Product of four vectors. Reciprocal vectors. Vector differentiation, Scalar valued point functions, vector valued point functions. Derivative along a curve, directional derivatives. Gradient of a scalar point function. Divergence and curl of a vector point function. Gradient, Divergence and curl of sums and products. Laplacian operator. Orthogonal curvilinear coordinates. Conditions for orthogonality. Fundamental triads of mutually orthogonal unit vectors. Gradient, Divergence, Curl and Laplacian operators in terms of orthogonal curvilinear coordinators. Vector integration: line integral, surface integral, Volume integral. Theorems of Gauss, Green and Stokes and the problems based on these theorems.

COURSE OUTCOMES(5TH SEMESTER):

COURSE TITLE:- MATRICES

COURSE CODE:-MATH501TH

This course offers the students the knowledge about types of matrices. Rank of a matrix. Invariance of rank under elementary transformations. Reduction to normal form, solutions of linear homogeneous and non-homogeneous equations with number of equations and unknowns upto three. Matrices in diagonal form. Reduction to diagonal form upto matrices of order 3. Computation of matrix inverses using elementary row operations. Rank of matrix. Solutions of a system of linear equations using matrices. Illustrative examples of above concepts from geometry, physics, chemistry, combinatorics and statistics. Definition of vector space, \mathbb{R} , \mathbb{R}^2 , \mathbb{R}^3 as vector spaces over \mathbb{R} , concept of linear dependence/independence, standard basis for \mathbb{R} , \mathbb{R}^2 , \mathbb{R}^3 , examples of different bases. Subspaces of \mathbb{R}^2 , \mathbb{R}^3 . Translation, dilation, rotation, reflection in a point, line and plane. Matrix form of basic geometric transformations. Interpretation of eigenvalues and eigen vectors for such transformations and eigen spaces as invariant subspaces.

COURSE TITLE:- PROBABILITY AND STATISTICS

COURSE CODE:-MATH504TH (SEC)

This course will enable the students to learn about Sample space, probability axioms, real random variables (discrete and continuous), cumulative distribution function, probability mass/density functions, Mathematical expectation, moments, moment generating function, characteristic function, discrete distributions: uniform, Binomial, Poisson, continuous distributions: uniform, normal, exponential. Joint cumulative distribution function and its properties, joint probability density functions, marginal and conditional distributions, expectation of function of two random variables, conditional expectations, independent random variables.

COURSE OUTCOMES(6TH SEMESTER):**COURSE TITLE:- NUMERICAL METHODS****COURSE CODE:-MATH601TH**

After studying this course the students should be able to understand concept of algorithms, convergence, bisection method, false position method, fixed point iteration method, newton's method, secant method, lu decomposition, Gauss-Jacobi, Gauss-Siedel and SOR iterative methods, lagrange and newton interpolation: linear and higher order, finite difference operators, numerical differentiation: newton's forward difference and backward difference method, sterling's central difference method.

COURSE TITLE:- TRANSPORTATION AND GAME THEORY**COURSE CODE:-MATH605TH (SEC)**

On successful completion of the course students should be able to Familiarize with Transportation problem and its mathematical formulation. Northwest-corner method, least cost method, Vogel approximation method for determination of starting basic solution, algorithm for solving transportation problem, Assignment problem and its mathematical formulation, Hungarian method for solving assignment problem. Game theory: formulation of two person zero sum games, solving two person zero sum games, games with mixed strategies, graphical solution procedure.

6. BSc Physics**Codes of all courses taught in the Physics department**

| Year | Course Type | Course Code | Title of paper | *Credits |
|----------|----------------|-------------|--|----------|
| I | CORE COURSE-I | PHYS101 | MECHANICS Theory | 4 |
| | | | MECHANICS Lab | 2 |
| | CORE COURSE-IV | PHYS102 | ELECTRICITY, MAGNETISIM AND EMT Theory | 4 |

| | | | | |
|------------|--------------------------------------|---------|---|-------------------------|
| | | | ELECTRICITY, MAGNETISIM AND EMT Lab | 2 |
| II | CORE COURSE-VII | PHYS201 | STATISTICAL AND THERMAL PHYSICS Theory | 4 |
| | | | STATISTICAL AND THERMAL PHYSICS Lab | 2 |
| | CORE COURSE-X | PHYS202 | WAVES AND OPTICS Theory | 4 |
| | | | WAVES AND OPTICS Lab | 2 |
| | SEC 1 | PHYS203 | PHYSICS WORKSHOP SKILLS | 3+1 (TH+IA= 3SE = 1) |
| | SEC 2 | PHYS205 | ELECTRICAL CIRCUITS AND NETWORK SKILLS | 3+1 (TH+IA= 3SE = 1) |
| III | DISCIPLINE SPECIFIC ELECTIVES DSE:1A | PHYS301 | ELEMENTS OF MODERN PHYSICS Theory ELEMENTS OF MODERN PHYSICS Lab | 4+2 (TH+IA= 4PR = 2) |
| | DISCIPLINE SPECIFIC ELECTIVES DSE:1B | PHYS304 | NUCLEAR AND PARTICLE PHYSICS Theory | 5+1 (TH+IA= 5TU = 1) |
| | SEC 3 | PHYS307 | RADIATION SAFETY Theory | 3+1 (TH+IA= 3SE = 1) |
| | SEC4 | PHYS310 | RENEWABLE ENERGY AND ENERGY HARVESTING Theory | 3+1 (TH+IA= 3SE = 1) |

* TH = Theory, IA = Internal Assessment, PR = Practical, TU = Tutorials and SE = Skill Exam

Programme Outcomes:

Core Papers:

DSC1: Mechanics: At the end of the course, the students will learn about the motion of physical bodies, the course consists of basic concepts related to the motion of objects, the study vectors, laws of motion, momentum, energy, rotational motion, gravitation and special relativity.

DSC1 LAB: Students will perform basic experiments related to mechanics and will also get familiar with various measuring instruments and the importance of accuracy of measurements.

DSC2: Electricity, Magnetism and EMT: This course gives an opportunity to the students to learn about one of the fundamental interactions i.e.

electricity and magnetism, both as separate phenomena and as a singular electromagnetic force. The course contains vector analysis, electrostatics, magnetism, electromagnetic induction and Maxwell's equations.

DSC2 LAB: Students will gain practical knowledge about electricity and magnetism and measurements such as: Resistance, Voltage, Electric Current, Frequency etc.

DSC3: Statistical and Thermal Physics: On the completion of the course, students will be able to understand the basic ideas of statistical Physics. The students will learn about classical and quantum statistics. The course contains the study of laws of thermodynamics, thermodynamic description of systems, thermodynamic potentials, kinetic theory of gases.

DSC3 LAB: Students will gain practical knowledge about heat and radiation, thermodynamics, laws of probability, etc. and perform various experiments.

DSC4: Wave and Optics: In this course the students will learn about harmonic oscillations, waves motion (general), oscillators, wave optics, interference, diffraction, polarization. This is an important course because oscillatory motion is ubiquitous and appears in many branches of Physics and even in chemistry, thus, the knowledge of this course equips the students to better understand various phenomena in nature.

DSC4 LAB: Students will gain practical knowledge of wave motion and optics by performing experiments involving the phenomena of interference and diffraction with the help of lasers, Prisms, diffraction gratings, optical spectrometers etc.

Discipline Specific Elective papers:

DSE1: Elements of Modern Physics: Students will learn about the basic principles of modern physics. The topics covered in the course build a basic foundation for undergraduate physics students to study the advance branches of: quantum physics, nuclear physics, particle physics and high energy physics. The course contains the study of Planck's hypothesis, photoelectric effect, Compton effect, matter waves, atomic models, Schrodinger wave equation, and ideas of nuclear physics.

DSE1 LAB-Elements of Modern Physics: Students will gain the understanding of basic experiments of modern physics such as: Determination of Planck's and Boltzmann's constants, Determination of ionization potential of Mercury, Double slit diffraction, Photo electric effect and determination of e/m .

DSE2: Nuclear and particle physics: At the end of the course, the students will have the knowledge of constituents of nucleus, various nuclear models, radioactive decay and nuclear reactions. Students will also gain the knowledge about basics principles of acceleration and detection of nuclear particles.

Skill Enhancement Courses :

SEC1: Physics workshop skills: This is a skill based course and gives detailed study of tools and apparatuses of physics laboratory. Students will become familiar with electrical and mechanical tools used in workshops.

SEC2: Electrical circuits and networking skills: This is a skill based course which aims to give detail knowledge of electrical components and theorems based on voltage and current. Students will also learn about various electrical measuring instruments.

SEC3: Radiation safety: The students will gain the knowledge of different types of radiation and its interactions with matter, they will also know about the photons, charged particles, neutrons, radiation detection, monitoring and safety measures, students will also learn about the applications of nuclear techniques.

SEC4: Renewable energy and energy harvesting: Energy conservation and use of renewable energy is the need of the hour to save humanity from global warming and its ill effects. This course addresses this issue. The course comprises of renewable natural energy sources like sun, wind, ocean, tides, waves etc and techniques to use them.

PROGRAMME SPECIFIC OUTCOMES

This undergraduate course in Physics provides the opportunity to the students:

- To understand the basic laws of physics in the areas of classical mechanics, Newtonian gravitation, special relativity, electromagnetism, geometrical and physical optics, quantum mechanics, thermodynamics and statistical mechanics.
- To recognize how observation, experiment and theory work together to expand our horizon of knowledge.
- To apply basic mathematical tools commonly used in physics, including elementary probability theory, differential and integral calculus, vector calculus, ordinary differential equations, partial differential equations, and linear algebra.
- To understand the concepts and significance of the various physical phenomena.
- To carry out experiments to understand the concepts and laws of Physics.
- To apply the theories learnt and the skills acquired during the course to solve real life problems.
- To acquire a wide range of problem solving skills, both analytical and technical and to apply them.
- To enhance the student's academic abilities, personal qualities.
- To motivate the students to pursue PG courses in reputed institutions.

II. B Com. (Course Code BC)

Department of Commerce

I PROGRAMME OUTCOME (Commerce)

Programme Commerce

Programme outcome of Commerce is outlined as per the syllabi of HPU.

PO1 The course enable the learners to get the knowledge about all the sectors the which comes under commerce like banking ,marketing ,insurance ,Taxation system of India, Business Study ,financial management, entrepreneurial skills and accounts.

PO2 The learners could be able to learn communication skill.

PO3 The course offers a number of job oriented subjects like banking and finance, HRM, Marketing and management.

PO4 After completing the graduation students could be able to get Jobs in the industries, banking and different government and non government sectors.

PO5 The course could strengthen the capabilities of the students in various fields of the commerce and management.

PO6 The course develops the entrepreneurial skills and decision making skills among the students.

II Programme Specific Outcome

PSO 1. Students could get the knowledge about finance industry where in learners could develop various skills at the end of the graduation.

PSO 2. The students could be able to give various competitive examinations like CA, CS, ICWA, Banking and Insurance after completing the graduation.

PSO 3. The students could pursue for the Research in the field of commerce after the graduation.

PSO 4. The course could develop various managerial and penal skills among the students at the end of the course.

PSO 5. The course provides wide knowledge about accounting, industry, finance, insurance and stock markets.

PSO 6. The course develops a thoroughly knowledge about the theoretical and practical aspect and updated knowledge about the specific subjects among the learners.

III COURSE OUTCOME

The course outcome of the commerce is as per the syllabi prescribed by HPU.

The course outcome is based on the 3 years CBCS system as follows :

BCOM 1st year

| Serial No. | Name of the course | Course Code | Credits | Outcome |
|-------------------|--|--------------------|----------------|--|
| 1 | Financial accounting | BC 1.1 | 6 | 1. Imparts knowledge about journal, ledger, Final accounts, Hire purchase, consignments etc. 2. Provides practice knowledge about Tally ERP 9 and Information system. |
| 2 | Business organizational management | BC 1.2 | 6 | 1. Enables learner to gain knowledge about Business and trade, LPG, Functions of Management, leadership, motivation and Communication. 2. Learns could improve their communication and decision making skills. |
| 3 | Business Law | BC 1.3 | 6 | Provides knowledge about various Acts like Contract act 1872, consumer protection act , Company Act , Negotiation Act , Bills of exchange etc. |
| 4 | Business Mathematics and Statistics | BC 1.4 | 6 | Impart the framework about Mathematical and Statistical tools like Matrix, determinants, integration and differentiation, compound interest, Mean, Median, and Mode. 2. Practical knowledge of Correlation, Regression etc. |

BCOM 2nd Year

| Serial No. | Name of the Course | Course Code | Credits | Outcome |
|-------------------|---|--------------------|----------------|--|
| 1 | Company Law | BC 2.1 | 6 | 1. Imparts knowledge about Companies Act 1956 and 2013, Types of company, formulation of Company, Powers and duties of Director, Meetings and its Types etc. 2. Create understanding about the work and legal framework of the Company. 3. Provides intensive knowledge about the Practical functioning of the Company its rules and regulations |
| 3 | Computer Application in Business | BC 2.3 | 4 | 1. Impart the practical knowledge about Computer, its uses and applicability. 2. Make learners skilful in the use of ICT. 3. Provide practical knowledge about MS office, Excel, Word PPT and operating System. |
| 4 | Corporate Accounts | BC 2.4 | 6 | 1. Impart the knowledge of Stock Markets, shares, debentures, amalgamation , Internal and external reconstruction. 2. Develop the understanding about functions of stock markets NIFTY and BSE sensenx. buying and purchasing of the shares. |
| 5 | Cost Accounts | BC 2.5 | 6 | 1. Provides the theoretical and practical knowledge of different costs, its calculations, implications and cost principals. 2. Make learners able to calculate and understand the Marginal cost , standard cost , job cost , batch coast ,process cost , Minimum support price and floor price etc. |
| 6 | E- Commerce | BC 2.6 | 4 | 1. Provides the knowledge about various electronic modes of exchanging the goods and services like B2B, B2C, and C2C etc. 2. Create understanding about the electronically mode of doing business , online apps , online games , online shopping sites etc. |

BCOM 3rd Year

| Serial No. | Name of the course | Course Code | Credits | Course outcome |
|-------------------|----------------------------------|--------------------|----------------|---|
| 1 | Human Resource Management | BC 3.1 | 6 | 1. Imparts knowledge about the Human resource management, Planning, Recruitment, Staffing, Job analysis, Job evaluation, job training, role of manager etc. |

| | | | | |
|---|---|---------------|---|--|
| | | | | 2. Develop the knowledge about Industrial disputes act, Compensation act , and factory fact etc. |
| 2 | Fundamentals of financial management | BC 3.2 | 6 | Provides the theoretical and practical knowledge of financial management, valuation of shares cost of debt, Capital structure, Financial leverage, and Dividend policy. 2. Create understanding about the sources of finance and its utilization. |
| 3 | Entrepreneurship | BC 3.3 | 4 | Impart the knowledge of creating new idea, entrepreneurial techniques, steps of generating new ideas and Project development and Report writing. 2. Develop the entrepreneurial skill among the learners. |
| 4 | Principles of Micro Economics | BC 3.4 | 6 | 1. Impart knowledge about demand and supply, income elasticity, kinds of Markets, cost functions etc. 2. Create understanding of the price and demand mechanism, Revenue generation and price fixation. |
| 5 | Management Accounting | BC 3.5 | 6 | 1. Enables learner to acquire the knowledge about Ratio analysis, Budgets, working capital and Marginal and standard cost. 2. Explore the process of Budget making its implications and benefits. 3. Refurbished students with the cost mechanism. |
| 6 | International Business | BC 3.6 | 6 | Enables students to gain knowledge about Business and trade, Business environment, different international organisations. 2. Learn about the functioning of import and export, Balance of payment system. 3. Create the understanding about the functioning of world Bank and IMF. |
| 7 | Personal selling | BC 3.7 | 4 | 1. Lerner's gain the knowledge of Marketing, Product development, Buying behaviour etc. 2. Make learners able to understand the process of price fixation, storing, branding and packaging. 3. Enables learner to understand the process of promotion and DAGMAR concept. |
| 8 | Indian Economy | BC 3.8 | 6 | 1. Provide the enhanced knowledge about the background of Indian economy at the time of independence, poverty, unemployment, Agricultural sector. 2. Provides knowledge about the economic growth, industrial growth and agricultural growth. 3. Develop understanding about the impact of inflation and the trade cycles. |

| | | | | |
|--|--|--|--|--|
| | | | | 4. Students could be able to understand the monetary policy and fiscal policy. |
|--|--|--|--|--|

III. BCA (Course Code BCA)

Department of BCA and Computer Science

| |
|---|
| Bachelor in Computer Application (BCA) |
|---|

Program Objectives:

- BCA course strives to create outstanding computer professionals with ethical and human values to reshape the nation's destiny. This program aims to prepare young minds for the challenging opportunities in the IT industry, nourished and supported by experts in the fields.
- The BCA Course aims at inculcating essential skills as demanded by the global software industry through interactive learning process. This also includes team-building skills, audio- visual presentations and personality development programs.

- The program enhances analytical, managerial and communication skill besides inculcating the virtues of self-study. The Curriculum has been designed to cater to the ever changing demands of information technology along with necessary inputs from the Industry.
- The OBJECTIVE of the course is to develop skilled manpower in the various areas of software industry and Information Technology
- To enable students for pursuing respectable career through Self- Employment, Executive Employment, Entrepreneurship, Professional Career in the field of service sectors such as e- Banking, Marketing, Investment, Insurance hospitality and other avenues.
- To develop inter-twining competence in the field of Commerce and Management, Computing Skill and Computational tools.
- To develop abilities for data analysis and interpretation Using ICT.
- To develop the basic programming skills to enable students to build Utility programs.
- To develop the foundation for higher studies in the field of Computer Application.
- To provide specialization in Management with technical, professional and communications skills.
- To train future industry professionals.
- To impart comprehensive knowledge with equal emphasis on theory and practice.
- To keep the students up-to-speed on all the latest and cutting edge technologies.

First Year (1st Semester)

| Course Code | Course Title | Course Objectives |
|--------------------|-----------------------|--|
| BCA0101 | Mathematics-I | To Make students Familiar with mathematics this is related to computer, so that students can solve their logics during Programming. |
| BCA0102 | Applied English | To make communication among students |
| BCA0103 | Computer Fundamentals | To study the fundamental Accounting concepts, terms, jargons and learn the process of recording of financial transactions in the books of Accounts. To develop the foundation for higher studies in the field of accounting. |
| BCA0104 | C Programming | Prepare students to acquire knowledge of programming using |

| | | |
|------------|--------------------------------|--|
| | | C. It is the precursor and inspiration for almost all of the most popular high-level languages available today. |
| BCA0105 | Office Automation Tools | This course directly helps students to know about computer Hardware and Software and specially focus on Office tools like Word, excel and PPT. |
| BCA0104(P) | C Programming Lab-I | To practically train students in C programming language. |
| BCA0105(P) | Office Automation Tools Lab-II | To practically train students in Office tools. Word, Excel, Power point and DOS |

First Year (2nd Semester)

| Course Code | Course Title | Course Objectives |
|-------------|------------------------------------|---|
| BCA0201 | Mathematics-II | To Make students Familiar with mathematics this is related to computer, so that students can solve their logics during Programming. |
| BCA0202 | Communicative English | To increase the Communication skills of the students in English Language. |
| BCA0203 | Digital Electronics | This increases the knowledge about internal working and devices of the computer. |
| BCA0204 | Data Structures | To impart the knowledge of data structure among student. |
| BCA0205 | Data Base Management System | To prepare students in using and managing databases. |
| BCA0204(P) | Data Structures Lab-III | To impart the knowledge of implementation of data structure among students. |
| BCA0205(P) | Data Base Management System Lab-IV | To practically train students in using databases with MS- Access |

Second Year (3rd Semester)

| Course Code | Course Title | Course Objectives |
|-------------|-----------------|--|
| BCA0301 | Mathematics-III | To Make students Familiar with mathematics this is related to computer, so that students |

| | | |
|------------|--|---|
| | | can solve their logics during Programming. |
| BCA0302 | Business Practices and Management | To familiarize the students with the basic Business Management concept & process. |
| BCA0303 | Computer Organization | To make students familiar with Computer Organization. This describes the internal working and memory management system. |
| BCA0304 | Object Oriented Programming with C++ | To Train students with basic concepts of programming using C++. |
| BCA0305 | Desktop Publishing and Designing | To imparts the knowledge about Publishing and publishing Software among students. |
| BCA0304(P) | Object Oriented Programming with C++ Lab-V | To practically train students in developing programming and logical skills using C++ programming language. |
| BCA0305(P) | Desktop Publishing and Designing Lab-VI | To practically train students in Publishing and publishing Software. |

Second Year (4th Semester)

| Course Code | Course Title | Course Objectives |
|-------------|---------------------------------------|--|
| BCA0401 | Personnel Management | To improve the Knowledge about personal management and organizational behavior so that students can understand the levels of management. |
| BCA0402 | Accounting | <ul style="list-style-type: none"> • To Understand Accounting Standards. • To Understand The Formation Of Public Limited Company Having Share Capital. • To develop various types of Financial Statements. To Understand the Cost Estimation and Costing Process. |
| BCA0403 | System Analysis and Design | The course has been designed to provide a solid foundation of systems principles and an understanding of how business functions, while heighten students may understand the issues and responsibility of analysts. |
| BCA0404 | Internet Technology & Web Page Design | <ul style="list-style-type: none"> • To practically train students in using computers and internet technologies. • To make students well familiar Internet and Web designing |

| | | |
|------------|---|--|
| BCA0405 | Programming in Visual Basic | To impart the knowledge of Windows Apps development in students in by using Visual Basic |
| BCA0404(P) | Internet Technology & Web Page Design Lab-VII | To make students well familiar with CSS and HTML. |
| BCA0405(P) | Programming in Visual Basic Lab-VIII | To impart the knowledge of object oriented programming using Visual Basic among student. |

Third Year (5th Semester)

| Course Code | Course Title | Course Objectives |
|-------------|---|---|
| BCA0501 | Operating System | <ul style="list-style-type: none"> • To make students understand the features of Windows operating system • To make students learn the components of Windows To learn basic DOS commands. |
| BCA0502 | E- Commerce | To impart the knowledge about E-Commerce and its functionality among students. |
| BCA0503 | Management Information system | <ul style="list-style-type: none"> • To make students understand the features of MIS. • To make students aware with MIS and how it is going to implement in any organization and institution. |
| BCA0504 | ASP.net Technologies | To impart the knowledge of web development in students in by using ASP.NET |
| BCA0505 | Computer Oriented Statistical Methods | To impart the required knowledge of Mathematics and statistics for managerial activities among students. |
| BCA0504(P) | ASP.net Technologies Lab-IX | To practically train students in developing web pages using ASP.NET and to familiar them with Linux Operating System. |
| BCA0505(P) | Computer Oriented Statistical methods Lab-X | To impart the required knowledge of Mathematics and statistics for managerial activities among students using Programming Language. |

Third Year (6th Semester)

| Course Code | Course Title | Course Objectives |
|-------------|--------------|-------------------|
|-------------|--------------|-------------------|

| | | |
|------------|-----------------------------|---|
| BCA0601 | Computer Networks | To make students well familiar with computer and networking fundamentals. |
| BCA0602 | Numerical Methods | To impart the required knowledge of Mathematics and numeric for Numerical activities among students. |
| BCA0603 | Multimedia Technology | It improves the way to interact with multimedia objects as well as effective implementation of multimedia to express information in comprised manner among Students |
| BCA0604 | Computer Graphics | It imparts the knowledge about how computer represent the graphics using various algorithms. |
| BCA0605 | Software Engineering | It imparts the knowledge about how software is going to build, implement and maintain using SDLC among students. |
| BCA0604(P) | Computer Graphics Lab-XI | Students understand about the implementation of graphics using programming language. |
| BCA0606 | Major Project | To prepare students to use applications of the theory and practical learned during the course. |

IV . BA Pass course (Course Code BA) Arts and Humanities (Programme specialization : English , Hindi, Sanskrit, Philosophy, History, Political Science, Public Administration, Physical Education , Music(V) , Music (I), Geography, Mathematics, Economics .

1.BA English

Programme Specific Outcome:

English Literature courses in the Department of English expose students to a wide range of writing from British, American and Anglophone traditions. It helps students explore how writers use the creative resources of language-in fiction, poetry, nonfiction prose, and drama-to explore the entire range of human experience. Students are expected to strive, to be imaginative, rhetorically dexterous, and technically proficient and as a result, to gain a deeper insight into life., UG syllabus will help students build skills of analytical and interpretive argument, and become careful and critical readers. Again, students' engagement with various strategies of drafting and revising, style of writing and analytical skills, diagnosing and developing scholarly methodologies, use of language as a means of creative expression, will make them effective thinkers and communicators — qualities which are crucial for choosing careers in our information-intensive society

Specific learning outcomes for English courses include the following:

- 1. Reading:** Students will gain awareness about the best literary traditions of the world. By learning how others live and handle their lives, one becomes connected with the world in a way we might not otherwise experience. They will discover that they are part of a huge conglomerate of human thought and emotion. All the great texts that a student of English will get chance to study will expand their range of experience. They can gain courage and strength by living vicariously through well-developed characters. Through reading students will have an awareness for varies perspectives. This will also expand their range of experience and in the process they will learn to be more empathetic

toward the plights of others.

- 2. Literature, Nation and Tradition:** The current syllabus in the UG level will provide students an opportunity to know India’s age old literary and cultural tradition through their exposure to Sanskrit texts and modern Indian vernacular literature in translation. How reading literature in English can be an effective means to address the complex issues of identity, nationalism , historical tradition in Indian context, is a new focus area of the present course.
- 3. Awareness about Culture and History:** Students gain an understanding of the relations between culture, history and texts. They learn to use texts as a gateway to various cultural traditions and interpret them in their historical contexts. How a literary text can appear as an ideal platform to locate dominant and marginalized voices of a society, is an important focus of the under-graduate literature programme.
- 4. Gaining of Critical Insight:** An exposure to various social and cultural traditions and through the reading of representative texts from different periods help a student gain a critical insight about the reality as a whole. With the help of their Knowledge of various critical theories
- 5. Scope of employability :**There is a vast scope for employability in the field of Media and Journalism and Department of Education.

COURSE OUTCOME

The Department of English is offering English as Core Compulsory courses to all the students of BA./B.COM.I and B.A/BCOM.II.

DSC1A& 1B, DSC 1C ,DSC1D and DSE1A ,DSE1B are offered as Discipline Specific Courses and Discipline Specific Elective respectively as per CBCS.

To impart the skills along with the graduate programme, two AECC courses are offered in 1st and 2nd year and two SEC courses and one Generic Elective course are offered in 3rd year of the programme.

First Year

| Year | P a p e r C o d e | C o u r s e Name | Credits | Course Objective | Course Learning outcome |
|------|----------------------|---|---------|---|---|
| I | CE 101 | English-1 Core English (Compulsory) For B.A. and B.Com. | 6 | The objectives are: To engage with and respond orally to a wide range of literary texts such as poetry, prose and drama, written for adults and young people in English <i>e.g. simpler narrative texts which deal with less complex issues.</i> | On completion of the course students will show : 1. understanding of different layers of meaning and how these meanings are conveyed about a literary text . 2. Ability to differentiate between prose, poetry and drama. 3. Better vocabulary . |

| | | | | | |
|---|--------------------|--|---|---|---|
| I | ENG DSC 102/ | DSC-1A English Literature-1 (Essays, Stories and Poems) Core Course for students who choose English as Discipline | 6 | <p>The objectives are:</p> <ol style="list-style-type: none"> 1. To identify a range of literary devices <i>e.g. imagery, personification, poetic sound devices</i> and poetic forms <i>e.g sonnet</i> and to explain the literary effects and functions of these devices. 2.To interpret the meaning, theme, structure of poems and other pieces of literary texts. | <p>On completion of the course students will learn to:</p> <ol style="list-style-type: none"> 1.Appreciate how literary texts reflect on life and ideas and on how people respond to these. 2. Understand that literature shows how different people react differently to life and what it presents. 3.Understand the varying points of view. |
| I | ENG DSC 103/ | DSC-1B English Literature-2 (Poems, Short-Stories and Essays) Core Course for students who choose English as Discipline | 6 | <p>The objectives are:</p> <ol style="list-style-type: none"> 1. To teach different points of view on aesthetic, personal, emotional, social, moral and political issues. 2. To show how differences in voice and viewpoint are achieved by explaining the literary and narrative choices of the authors | <p>On completion of the course students will learn to:</p> <ol style="list-style-type: none"> 1.Read of texts from different contexts, show that while ideas, motives and emotions remain constant across centuries, the expression, management and acceptance of those ideas, motives and emotions might change 2. Know about the different genres of verse across cultures |
| I | ENG AECC 104 | AECC-2 Writing Skills | 4 | <p>The course will definitely facilitate :</p> <ol style="list-style-type: none"> 1.The use of basic computer applications – word processing, email, and Internet access – and other technological media and PowerPoint. 2. The fluency and style by encouraging word and sentence variety, increasing vocabulary | <p>On completion of the course students will learn :</p> <ol style="list-style-type: none"> 1.The ability to develop ideas with logical support, including the use of informed opinion, facts, and their interpretations; 2. To increase the critical reasoning skills as they reflect the interdependence of critical |

| | | | | | |
|--|--|--|--|--|---------------------------------|
| | | | | | thinking and written discourse. |
|--|--|--|--|--|---------------------------------|

Second Year

| Year | P a p e r C o d e | C o u r s e Name | Credits | Course Objective | Course Learning outcome |
|------|----------------------|--|---------|---|--|
| II | ENG CE 201 | English-2 Core English (Compulsory) for B.A & B.Com. | 6 | <p>The objectives are:</p> <p>1.To acquaint students to the art of essay writing and to make them aware of the various categories of essays used for articulation of one's perspective .</p> <p>2.To develop in students critical ability to appreciate the short poems of some of the best poets from the English literature.</p> <p>3.To apply basic concepts of grammar to practical exercises.</p> | <p>On completion of the course students will learn:</p> <p>1. About various types of essays and poems</p> <p>2.Appreciate the poems in the course .</p> <p>3. To analyze the themes of the essays and poems.</p> <p>4.To explain stanzas or passages from the poems and essays.</p> <p>5.To summarize the essays or the poems</p> <p>6 .To differentiate between noun and verb ;Homonym ,homophone and Homograph .7. To use words as nouns and verbs.</p> <p>8.To interchange the degree of a sentence.</p> |
| II | ENG DSC 202/ | DSC- 1C British Literature (Play and Novel) Core Course for students who choose English as discipline | 6 | <p>The objectives are:</p> <p>1.To develop in students an appreciation for two of the most representative writers from the English literary world.</p> <p>2.To make the students recognize the skills that made them immortal figures of world literature</p> | <p>At the end of the course students will :</p> <p>1.Critically examine various scenes of the play</p> <p>2.Explain the relevance of the two texts to modern times</p> <p>3.Learn to appreciate the art of Drama and novel writing</p> <p>4.Learn vocabulary appropriate to subject matter.</p> |

| | | | | | |
|----|-------------------------|--|---|--|---|
| II | II ENG DSC 203/ | DSC-1D Literary Cross Currents (Core Course for students who choose English as Discipline | 6 | The objectives are: 1.To develop an attitude of appreciation in students for Indian Literature in Translations 2.To acquaint the students with the vast variety of literary forms and themes in Indian Literature . | Students will be able to: 1.Evaluate the themes of the poems ,stories ,Novel and drama critically 2.Reflect on social , cultural and political issues concerning the Indian society |
| II | ENG AEEC/ SEC 204 | AEEC/SEC - 1: Creative Writing, Book and Media | 4 | The objectives are: To acquaint students with various forms of creative writings and advance their knowledge of literary devices and technicalities used in creative writing . | At the end of the course students will : 1.Define literary terms 2.Recognize various types of devices used in a piece of literary writing 3.Judicially review a book film ,or TV programme |
| II | ENG AEEC/ SEC 205 | AEEC/SEC-2 Translation Studies and Principles of Translation (Basic Concepts and Readings) | 4 | The objectives are: To impart the knowledge of translation as an independent branch of study and its basic principles and concepts . | On completion of the course students will learn: 1.To define various terms and concept used in translations 2.To explain the approaches to translations with example. 3.To identify various methods of translations and will explain them in detail 4. To recognize the difficulties faced during translations and the ways to handle these problems 5. Indian concepts of translations 6. To implement the knowledge gained in this course while translating Passages from Hindi to English and vice -versa |

| | | | | | |
|------------|----------------------------------|--|----------|---|---|
| | | | | | |
| III | ENG AEEC SEC 301 | AEEC/SEC-3 Technical Writing | 4 | <p>The objectives are:</p> <p>1.To provide students with the confidence to use written communication in work and personal experience beyond college,</p> <p>2.To acquaint students with the concept of a writer-reader relationship and identify the need for active participation from both writer and reader,</p> <p>3.To teach students the use of MLA style sheet.</p> | <p>On completion of the course students will learn to:</p> <p>1. Identify and select many types of writing frequently required in a variety of careers.</p> <p>2. Practice audience analysis and develop effective communication strategies for a variety of audiences,</p> <p>3. Determine purposes/objectives and develop skill in composing and revising on the computer documents with formats and language appropriate for those purposes,</p> <p>4. The ability to use computer technology in the writing process, including research and documentation.</p> <p>5. Achieve a greater awareness of the importance of selecting and integrating graphics with written communication,</p> |
| III | ENG AEEC/ SEC 302 | AEEC/SEC-4 Business Communication | 4 | <p>The objectives are:</p> <p>1.To provide an overview of Prerequisites to Business Communication.</p> <p>2.To provide an outline to effective Organizational Communication.</p> <p>3. To underline the nuances of Business communication.</p> | <p>On completion of the course students will learn to::</p> <p>1. Apply business communication strategies and principles to prepare effective communication for domestic and international business situations.</p> <p>2. Identify ethical, legal, cultural, and global issues affecting business communication.</p> <p>3. Utilize analytical and problem solving skills</p> |

| | | | | | |
|-----|----------------|---|---|---|---|
| | | | | <p>4.To impart the correct practices of the strategies of Effective Business writing.</p> | <p>appropriate to business communication.</p> <p>4. Participate in team activities that lead to the development of collaborative work skills.</p> <p>5. Select appropriate organizational formats and channels used in developing and presenting business messages.</p> <p>6. Compose and revise accurate business documents using computer technology.</p> <p>7. Communicate via electronic mail, Internet, and other technologies.</p> <p>8. Deliver an effective oral business presentation.</p> |
| III | ENG DSE 303 | DSE –1A Soft Skills | 6 | <p>The objectives are:</p> <p>To make students aware of the importance, the role and the content of soft skills through instruction, knowledge acquisition, demonstration and practice</p> | <p>On completion of the course students will learn to::</p> <p>Function effectively in multi-disciplinary and heterogeneous teams through the knowledge of team work, inter- personal relations, conflict management and leadership quality.</p> |
| III | ENG DSE 304 | DSE-1B Academic Writing and Composition | 6 | <p>The objectives are:</p> <p>1. To create rhetorically appropriate work that demonstrates an understanding of purpose, audience, context, and genre conventions.</p> <p>2.To practice varying strategies for composition, using self-evaluation to recognize that writing</p> | <p>Students will be able to :</p> <p>1.Write different types of academic writing pieces</p> <p>2.Write a well structured essay providing sound argumentation and reliable evidence</p> <p>3. Write a critical reflection of a placement/an internship identifying critical incidents, analyzing observations, identifying learning and proposing strategies for future interactions.</p> |

| | | | | | |
|-----|---------------|---|---|--|--|
| | | | | <p>processes are recursive and flexible.</p> <p>3. Analyze, synthesize, and evaluate information from various non-scholarly texts, attending especially to relationships between assertion and evidence and to patterns of organization.</p> | |
| III | ENG GE 306 | GE-2 Contemporary India: Women and Empowerment | 6 | <p>The objectives are:</p> <p>1. To differentiate between terms sex and gender and discuss their differences with in the larger social context of gender relations.</p> <p>2. Critique the various forms of feminism and evaluate their various political, social and cultural positions within the largest feminist framework.</p> | <p>On completion of the course students will learn to:</p> <p>Compare and contrast historical and contemporary women's issues from a variety of theoretical perspectives.</p> |

2. BA PHILOSOPHY

Under Graduate Program in Philosophy Under Choice Base Credit System (CBCS)

Program Outcome-

- It will enrich the knowledge of the students and provide them with the in-depth knowledge of the fundamentals of philosophy.
- It will create enquiring minds by developing critical, analytical and comprehensive attitude in the students. Enquiring minds definitely generate creative thoughts and out of box thinking.

- Philosophical thinking is not an alienated discourse which subjugates life. Life is a panorama of philosophical thinking. Dr. Radhakrishnan has rightly said, “Philosophy is alive and it cannot be remote from the life of the people.” In this respect the skill of Philosophizing connects and substantiates life.
- The program will provide priceless insight into search for one’s true self and meaning of life.
- It will let the students see and understand one’s own existence in relation to other beings in the society.

Program Specific Outcome-

1. Critical and Creative Minds

The students develop consistent, critical, creative and analytical thinking.

2. Evaluation Skills

It makes students capable of evaluating various belief systems and customs prevalent in the society.

3. Communication Skills

Students effectively develop, interpret and express ideas through written, oral and visual communication

4. Social Responsibility

Students develop knowledge of civic responsibility and the ability to engage effectively in regional, national and global communities.

5. Ethical Behavior

Students learn to relate choices, actions and consequences to ethical decision making.

6. Personality Development

It makes students capable of reflecting on one’s authentic existence and one’s ultimate goals in life.

Course Outcome

B.A. Ist Year

| <u>Sr. No.</u> | Title of The Course | Course Code | Credits | Outcome |
|----------------|----------------------------|------------------------|---------|--|
| <u>1.</u> | Introduction to Philosophy | PHIL-A-101cc DSC-1A | 6 | Students demonstrate a basic understanding of rational thinking processes involved in philosophy, knowledge of the methods of philosophy, branches of philosophy, relevance of philosophy and relation of philosophy with other streams of thought such as common sense, religion and science. Students get to learn the epic unparalleled theories of two great thinkers- Socrates and Aristotle. Students understand, explain and start assessing the basic philosophical methods and postulations |
| <u>2</u> | Indian Philosophy-1 | PHIL-A-102cc DSC-1B | 6 | Students are exposed to worlds oldest scriptures, i.e., Vedas and Upanishads which are said to be the treasure vault of wisdom and knowledge. Thus, |

| | | | | |
|--|--|--|--|--|
| | | | | students are educated about Vedic ritualism and development of spiritual ideas in Ancient India. The study of the great text Bhagwad Gita teaches students the significance of selfless action, to transcend emotions and attend to duties, to get rid of ignorance through knowledge, to rejoice in devotion and it also makes them familiar with the guidelines for leading a happy balanced life. Such knowledge takes a student on an inward journey of knowledge. |
|--|--|--|--|--|

B.A. IIndYear

| <u>Sr. No.</u> | <u>Title of The Course</u> | <u>Course Code</u> | <u>Credits</u> | <u>Outcome</u> |
|----------------|----------------------------|------------------------|----------------|---|
| <u>1.</u> | Indian Philosphy-2 | PHIL-A-203cc DSC-1C | 6 | This course provides an in-depth knowledge of three nastika schools of Indian philosophy, i.e., Carvaka, Jainism and Buddhism. The study of these schools makes students understand that freedom of thought must be respected but at the same time a standpoint/theory must be well examined rationally. Nothing should be followed blindly. Indian philosophy which is known to be highly spiritual and mainly astika in its outlook assigns significant place even to these nastika systems and some of their doctrines are well accepted even today. |
| <u>2.</u> | Indian Philosphy-3 | PHIL-A-204cc DSC-1D | 6 | An in-depth knowledge of all the six astika schools of philosophy is provided to students in this course. The knowledge of Samkhya, Yoga, Nyaya, Vaiseshika, Purva-Mimamsa, Advaita Vedanta and VishishtAdvaita of Ramanuja is such a comprehensive knowledge that it resolves almost all the mysteries of life. Students understand the key not only to physical wellbeing but also to mental wellbeing and there by the key to a healthy, prosperous, joyful and a contented life. This course also opens up spiritual dimension to the students. |

B.A. IIIrd Year

| <u>Sr. No.</u> | <u>Title of The Course</u> | <u>Course Code</u> | <u>Credits</u> | <u>Outcome</u> |
|----------------|----------------------------|--------------------|----------------|---|
| <u>1</u> | Western Philosophy-1 | PHIL-A-309 DSE | 6 | This course imparts basic understanding to students about some branches of philosophy – Epistemology and Metaphysics. Students learn about truth, coherence and limits of knowledge. Schools of Rationalism and Empiricism are taught to students as theories of knowledge. Students demonstrate understanding about reason and experience as sources of knowledge. A very significant concept of synthesis is taught to them when Rationalism and Empiricism are synthesized by Immanuel Kant in his Theory of Criticism. Students understand synthesis as a significant philosophical method and how it can be applied in practical life. |

| | | | | |
|-----------|----------------------|-------------------|---|---|
| <u>2.</u> | Western Philosophy-2 | PHIL-A-310 DSE | 6 | The knowledge of Epistemology and Metaphysics is further enhanced in this course. The nature of Reality is investigated into through the study of doctrines of Realism, Idealism and Materialism. The principle of Causality is also reflected upon, thereby, inculcating scientific temperament in the students. Students also attain knowledge about the contemporary trends in Western philosophy when they study about logical Positivism and Existentialism. |
| <u>3.</u> | Bhagvad Gita | PHIL-A-311GE | 6 | The study of Srimad Bhagvad Gita inculcates in the students the right and unbiased perspective of observing and knowing one's own self as well as the entire creation. It provides the guidance to a happy life. Students learn the significance of selfless action, how to transcend emotions and attend to duties, how to get rid of ignorance through knowledge, how to rejoice in devotion and how to lead a balanced life. |
| <u>4.</u> | Yoga | PHIL-A-312GE | 6 | The study of Yoga is one of the foundational studies of philosophy. It provides guidelines to students for living a yogic life laden with ethical standards of self-conduct. They learn a road map of human consciousness, i.e., how to live a happy, a healthy and a meaningful life through the practice of Yoga. Students understand how our thoughts (cittavrittis) get in the way of our happiness and how the process of 'disidentification' with our thoughts, aided by yoga practices, can end suffering and lead to unity with the supreme self. |

DSC- Discipline Specific Course, DSE- Discipline Specific Elective Course, GE - Generic Elective Course

3. BA Geography

Geography Pass Course (B.A./B.Sc.) under Choice Base Credit System (CBCS)

Geography is the study of places and the relationships between people and their environments. Geographers explore both the physical properties of Earth's surface and the human societies spread across it. They also examine how human culture interacts with the natural environment and the way those locations and places can have an impact on people. Geography seeks to understand where things are found, why they are there, and how they develop and change over time. The study of the diverse environments, places, and spaces of Earth's surface and their interactions. It seeks to answer the questions of why things are as they are where they are. The modern academic discipline of geography is rooted in ancient practice, concerned with the characteristics of places, in particular their natural environments and peoples, as well as the relations between the two.

PROGRAM OUTCOMES

- To understand the scope and evolution of the diverse discipline of Geography.
- Recognize, synthesize and evaluate diverse sources of knowledge, arguments and approaches pertinent to exploring human-environment problems. Explain societal relevance of geographical knowledge and apply it to real world human- environment issues.
- Appreciate and reflect critically on the importance of holistic and interpretative human- environment perspectives.

- An understanding and acknowledgment of the threats that endanger the earth's natural systems. This helps in further realization of the significance of anthropogenic causes of many of the disasters and threats that puts life on this planet on the edge.
- Development of knowledge, skills and holistic understanding of the discipline among students. Encouragement of scientific mode of thinking and scientific method of enquiry in students. This goal is achieved through the regular field excursions conducted by the Department to various parts of India extensively and the writing of a report/thesis on it.
- Students become equipped with the ability to respond to both natural and man-made disasters and acquire management skills. This is attained through the curriculum by studying and analyzing hazards, disasters, their impact and management.
- Ability to undertake research in interdisciplinary studies and problems or issues beyond the realm of what strictly comes under the purview of geography. This is possible because of the varied nature of the curriculum that encompasses the study and analyses of concepts of sub-disciplines and allied disciplines of Geomorphology, Seismology, Pedology, Hydrology, Environmental Studies, Disaster Management, Resource Management and Conservation, Regional Planning and Development Studies Geographic information system and Remote Sensing and GPS etc.

PROGRAM SPECIFIC OUTCOMES

- To explore the fundamental concepts of the atmosphere, oceans and the Earth surface.
- To familiarize the students with the basic map making and reading techniques.
- To make them understand various aspects of human geography especially races, religion, cultural regions and population.
- To make the students aware of the theoretical aspects of regional development and planning.
- To give the students general view and importance of man and environment relationship.
- To make the students aware about the physiographic divisions and economic resources of India.
- To refrain the theoretical knowledge of students of “what, where and why” in geography through field survey.
- To make them understand various problems and overcome them through proper management, planning and sustainability.
- To motivate students to understand the disaster risk and to take actions appropriately against such risk with their own will.
- Training in practical techniques of mapping, cartography, software, interpretation of maps, photographs and images etc; so as to understand the spatial variation of phenomena on the Earth's surface. They will learn how to prepare map based on GIS by using the modern geographical map making techniques.

COURSE OUTCOMES

BA/BSc. First Year

| Sr. No. | Subject Code | Subject Name | Subject Category (Core Courses) | Course Outcome |
|---------|--------------|--------------------|------------------------------------|---|
| 1. | GEOGP101CC | Physical Geography | CC-1 | Students will have a general understanding of physical geographic Processes and landform formation. |
| 2. | GEOGP102CC | General | CC-2 (P) | To introduce the students to basic concepts of cartographic techniques of |

| | | | | |
|--|--|-------------|--|--------------|
| | | Cartography | | making maps. |
|--|--|-------------|--|--------------|

BA/BSc. Second Year

| Sr. No. | Subject Code | Subject Name | Subject Category (Core Course and SEC) | Course Outcome |
|---------|--------------|-----------------------------------|--|--|
| 1. | GEOGP201CC | Human Geography | CC-3 | To understanding of the students so as to achieve the conceptual clarity of Various aspects related to humans with the nature. |
| 2. | GEOGP202CC | Environmental Geography | CC-4 | To make the students understand the key concepts of cause and effect and how they relation influence the human activities and climate in shaping the Earth surface. |
| 3. | GEOGP203SEC | Regional Planning and Development | SEC-1 | The students will get familiarized with the theoretical foundations and conceptual grounding of regions. |
| 4. | GEOGP204SEC | Remote Sensing and GPS | SEC-2 (P) | Have knowledge of the principles of remote sensing, sensor resolutions and image referencing schemes and competence in data and information acquisitions, extraction, management and analysis for mapping and visualization. |

BA/BSc. Third Year

| Sr. No. | Subject Code | Subject Name | Subject Category (SEC, DSE & GE) | Course Outcome |
|---------|---------------|--|----------------------------------|---|
| 1. | GEOGP301SEC | Geographic Information System | SEC-3 (P) | To increase awareness among students of GIS and modelling tools with the latest learning and teaching experiences to deal with real world problems. |
| 2. | GEOGP 302 SEC | Field Techniques and survey-based project report (Practical) | SEC-4 (P) | It helps students the opportunity to reinforce classroom-based learning to enhance student's knowledge, skills and subject understanding. |

| | | | | |
|----|---------------|--------------------------------|-------|---|
| 3. | GEOGP303-1DSE | Geography of India | DSE-1 | The students will get familiarized with the geographic dimensions of India in terms of its regional vitality and formation of regions. |
| 4. | GEOGP304-1DSE | Disaster Management | DSE-2 | To help students understand the Fundamental concepts of hazards, disasters and associated natural/social phenomena and to familiarize them with the disaster management theory. |
| 5. | GEOGP305GE1 | Disaster Risk Reduction | GE-1 | To increase the knowledge of students and their understanding of disaster phenomenon, its different contextual aspects, impact and Vulnerability. |
| 6. | GEOGP306GE2 | Sustainability and Development | GE-2 | The course highlights the development of future-oriented perspective that deals with the significance of decisions, choices and actions on the quality of life of present and future generations. |

CC-Core Course, SEC- Skill Enhancement Course, DSE-Discipline Specific Elective Course

CGE- Generic Elective Course, P- Practical

4. BA POLITICAL SCIENCE

PROGRAM OUTCOME, PROGRAM SPECIFIC OUTCOME AND COURSE OUTCOME: PROGRAM OUTCOME: Political Science education provides learners with knowledge and skill needed to prepare for a professional career as a teacher, administrator, political scientists, lawyers etc. It also provides ground knowledge about the basics of political education .It trains about the politics and government at local, state, national and international levels.

PROGRAM SPECIFIC OUTCOME: Political science organizes various programs such as youth parliament, constitutional day and international human rights day. On this occasion organizes guest talk by scholar in the field of political science and encourage the students to think critically and gives information about politics and various aspect of public life.

Political science department enable the students to participate in various programs NSS, NCC and other cultural or sports activity. And avail the students to participate in various activities in the college and outside.

COURSE OUTCOME B.A.POLITICAL SCIENCE:

| COURSE:B.A.1ST YEAR | OUTCOME |
|---|--|
| Introduction to Political . (Theory (Pols-101) | The study of introduction to political theory, students is able to understand classical, modern and contemporary political theory also to understand concept of equality, liberty, rights and justice. |
| 2) Indian Government and politics (Pols-102) | The study of Indian Govt. and politics conveys the whole body of knowledge to the students about Indian Government and politics .This encourages the students to think and analyse |

| | |
|---|---|
| | about the politics of our nation. |
| COURSE:B.A.2ND YEAR | OUTCOME |
| 1)Comparative Government and politics (Pols-201) | To understand the comparative analysis of various Govt. or political system of the countries like USA, UK, China Canada and France .It helps them to critically analyses about the advantages and disadvantages of that political system with in Indian political system. |
| 2)Introduction to International relations (POLS-202) | It inculcates knowledge of various concepts of International relations for example collective security, balance of power cold war and principle of Indian foreign policy etc. It also help to understand various process of International Relation .It also studies about UNO which is only one International organization functioning for the maintenance of International peace and security. |
| 3Legislative support (Pols203) | It inculcates knowledge of legislative process union level, state level and local level .The student is able to know how to pass bill in parliament to become the law and how to pass the budget in parliament. |
| 4)Public opinion and survey research (POLS-204) | It inculcates the student knowledge of research and analytical aptitude. And also know the importance of public opinion research and survey in social science. |
| COURSE:B.A.3rd YEAR | OUTCOME |
| 1)Themes in comparative political theory (POLS-301A) | Upon its completion, the students will be able to know the importance of political philosophy in shaping and influencing the state and society .Students will be able to comparative analysis of western political thought and Indian political thought. Also know the political thought of Gandhi, Tilak, Ambedkar, Lohia, Nehru and Patel. |
| 2)Democracy and Governance (POLS-302A) | Upon its completion, students will be able to know democratic decentralization of power. Also able to know the role of trade union farmer union NGO, various social and environmental movement E-.Governance and economical liberalisation. |
| 3)Democratic awareness through legal literacy (POLS-303) | It inculcates the student knowledge of legal process against crime and social evils. |
| 4)Conflict and peace building(POLS-304) | The course seeks to familiarize the students with the different approach and methods to The understanding of peace and conflict. It will specifically focus on different mechanism Of conflict resolutions. And role of UNO in world peace and security. |
| 5)Society economy and polities in Himachal Pradesh (POLS-305) | The student will be able to understand socio, economical political and cultural setup in Himachal Pradesh. |
| 6)human rights ,Gender and | The student will be able to explain the meaning of human rights and examine human rights |

| | |
|--------------------------|--|
| Environment (POLLS-306)s | issues in different social, political and cultural context .The students will be able to relate human rights with other rights of individual. The student also know the gender discrimination and roll of women in development, also know environmental issues and sustainable development |
|--------------------------|--|

5. BA PHYSICAL EDUCATION

Programme Outcomes:

1. **Critical Thinking:** Take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational, and personal) from different perspectives.
2. **Effective Communication:** Speak, read, write and listen clearly in person and through electronic media in English and in one Indian language, and make meaning of the world by connecting people, ideas, books, media and technology.
3. **Social Interaction:** Elicit views of others, mediate disagreements and help reach conclusions in group settings.
4. **Effective Communication:** Speak, read, write and listen clearly in person and through electronic media in English and in one Indian language, and make meaning of the world by connecting people, ideas, books, media and technology.
- 5... **Effective Citizenship:** Demonstrate empathetic social concern and equity-centered national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering.
6. **Ethics:** Recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them.
7. **Environment and Sustainability:** Understand the issues of environmental contexts and sustainable development.
8. **Self-directed and Life-long Learning:** Acquire the ability to engage in independent and life-long learning in the broadest context socio-technological changes.

Programme Specific Outcomes (PSO) B.A. (General) Physical Education

1. Students will acquire a comprehensive knowledge and sound understanding of fundamentals of Physical Education.
2. Students will develop practical, theoretical skills in Physical Education.
3. Students will be prepared to acquire a range of general skills, to specific skills to communicate with society effectively and learn independently.
4. Students will acquire a job efficiently in diverse fields such as B.P.Ed, M.P.Ed, SSC, NET, and SET ETC.

Choice Based Credit System

B.A. with Physical Education (Annual System)

Year-wise Outline of the Courses

| Year | Course Opted | Course Name | Course Code | Credits | Distribution of Marks | | |
|--|---|--|-------------|-----------|-----------------------|-----|-----|
| | | | | | ETE | CCA | ETP |
| | Discipline Specific Course-1A (DSC-1A) | Introduction to Physical Education | PED101TH | 4 | 50 | 30 | - |
| | Discipline Specific Course-1A (Practical) {DSC-1A(PR)} | Athletics and Game-1 | PED101PR | 2 | - | - | 20 |
| | Discipline Specific Course-1B (DSC-1B) | Olympic Movement and Organization of Tournaments | PED102TH | 4 | 50 | 30 | - |
| | Discipline Specific Course -1B (Practical) {DSC-1B(PR)} | Athletics and Game-2 | PED102PR | 2 | - | - | 20 |
| | Discipline Specific Course-2A (DSC-2A) | | | 6 | - | - | - |
| | Discipline Specific Course-2B (DSC-2B) | | | 6 | - | - | - |
| | Ability Enhancement Compulsory Course-1 (AECC-1) | Environmental Science | | 4 | - | - | - |
| | Ability Enhancement Compulsory Course-2 (AECC-2) | English/Hindi/ Sanskrit (Any One) | | 4 | - | - | - |
| Total Credits (1st Year) | | | | 44 | | | |

Year-wise Outline of the Courses

| Year | Course Opted | Course Name | Course Code | Credits | Distribution of Marks | | |
|---|---|---|-------------|-----------|-----------------------|-----|-----|
| | | | | | ETE | CCA | ETP |
| I II | Compulsory Core Course-3 | English-2 | | 6 | - | - | - |
| | Compulsory Core Course-4 | Sanskrit/Hindi-2 | | 6 | - | - | - |
| | Discipline Specific Course-1C (DSC-1C) | Human Anatomy and Physiology | PED201TH | 4 | 50 | 30 | - |
| | Discipline Specific Course-1C (Practical) {DSC-1C(PR)} | Athletics and Game-3 | PED201PR | 2 | - | - | 20 |
| | Discipline Specific Course-1D (DSC-1D) | Sports Psychology | PED202TH | 4 | 50 | 30 | - |
| | Discipline Specific Course -1D (Practical) {DSC-1D(PR)} | Athletics and Game-4 | PED202PR | 2 | - | - | 20 |
| | Discipline Specific Course-2C (DSC-2C) | | | 6 | - | - | - |
| | Discipline Specific Course-2D (DSC-2D) | | | 6 | - | - | - |
| | Skill Enhancement Course-1 (SEC-1) | Sports Medicine, Physiotherapy and Rehabilitation | PED203TH | 4 | 70 | 30 | - |
| | Skill Enhancement Course-2 (SEC-2) | Sports Training | PED204TH | 4 | 70 | 30 | - |
| Total Credits (2nd Year) | | | | 44 | | | |

| Year-wise Outline of the Courses | | | | | | | |
|----------------------------------|--------------|-------------|-------------|---------|-----------------------|-----|-----|
| Year | Course Opted | Course Name | Course Code | Credits | Distribution of Marks | | |
| | | | | | ETE | CCA | ETP |

| | | | | | | | |
|--|---|---|----------------------------------|------------|----|----|----|
| III | Skill Enhancement Course-3 (Practical){SEC-3(PR)} | a) Specialization in Volleyball b) Specialization in Football Any One c) Specialization in Kabaddi | PED301PR PED302PR PED303PR | 4 | - | 30 | 70 |
| | Skill Enhancement Course-4 (Practical){SEC- 4(PR)} | Specialization in Athletics | PED304PR | 4 | - | 30 | 70 |
| | Discipline Specific Elective-1A (DSE-1A) | Recreation Or Any One Kinesiology and Biomechanics | PED305TH PED306TH | 6 | 70 | 30 | - |
| | Discipline Specific Elective-1B (DSE-1B) | Methods of Teaching in Physical Education OrAny One Officiating and Coaching | PED307TH PED308TH | 6 | 70 | 30 | - |
| | Discipline Specific Elective-2A (DSE-2A) | | | 6 | - | - | - |
| | Discipline Specific Elective-2B (DSE-2B) | | | 6 | - | - | - |
| | Generic Elective-1 (GE-1) | Health Education and Nutrition | PED309TH | 6 | 70 | 30 | - |
| | Generic Elective-2 (GE-2) | Yoga | PED310TH | 6 | 70 | 30 | - |
| Total Credits (3rd Year) | | | | 44 | | | |
| Total Course Credits (44+44+44) | | | | 132 | | | |

Discipline Specific Course (4 Papers along with Practicals)

Year I

1. Introduction to Physical Education
2. Athletics and Game-1 (Discipline Specific Course-Practical)
3. Olympic Movement and Organization of Tournaments
4. Athletics and Game-2 (Discipline Specific Course-Practical)

Year II

1. Human Anatomy and Physiology

2. Athletics and Game-3 (Discipline Specific Course-Practical)
3. Sports Psychology
4. Athletics and Game-4 (Discipline Specific Course-Practical)

Skill Enhancement Course (4 Papers)

Year II

1. Sports Medicine, Physiotherapy and Rehabilitation
2. Sports Training

Year III

1. Specialization in Volleyball (Practical)
2. Specialization in Football (Practical)
3. Specialization in Kabaddi (Practical)
4. Specialization in Athletics (Practical)

Discipline Specific Elective Course (2 Papers)

Year III

1. Recreation
2. Kinesiology and Biomechanics
3. Methods of Teaching in Physical Education
4. Officiating and Coaching

Generic Elective Course (2 Papers)

Year III

1. Health Education and Nutrition
2. Yoga

6.BA Music (V & I)

HINDUSTANI MUSIC

Programme Specific Outcomes

- These courses will definitely be beneficial to those students who want to pursue Music as a profession.
- These courses will enhance the capabilities of students in other fields too, with aptitude and interest in music.
- With this course students will be able to achieve their graduation degrees besides improving their skills in Music.
- They can go for higher studies in performing arts.

- They can become Music Teachers, Instructors.
- Students can also become professionals and pursue their careers as professional artists.
- Students will be in a position to appreciate the rich Indian Culture and performing arts.
- This course will also lead to self actualization by the students which will enhance their self-esteem.

Course Outcome HINDUSTANI MUSIC (Vocal & Instrument)

| Ist YEAR | | | | |
|------------------|---------------------|---|-------------------------|---|
| Sr. No. | Subject Code | Subject Name | Subject Category | |
| 1. | MUSA 101 (TH) | Basic Principles of Indian Music & Biographies of Musicians, Composers and Musicologists. Music Unit (I) | DSC1 A | They will understand the basic principles of Indian Music. They will be better able to understand rich Indian culture of performing Arts. |
| 2. | MUSA 102 (PR) | Practical Stage Performance UNIT-II | DSC 2 A | This will help the students to improve their skills and they can become Professionals. |
| 3. | MUSA 103 (TH) | Theory of Music (General) and Biographies of Musicians, Composers and Musicologists. UNIT (I) | DSC 1 B | They will come to know about the hard work and contribution of great Musicians. |
| 4. | MUSA 104 (MR) | Practical UNIT-II Viva-Voce | DSC 2 B | Student's aptitude and skills in the field of Indian classical music Will be enhanced. |
| IInd YEAR | | | | |
| 5. | MUSA 201 (TH) | Theory of Indian Music, Ancient Granthas & Contribution of Musicologists. Paper III Theory Unit-I | DSC 1 C | Students will gain vast knowledge of Granthas, Natya Shastra, Sangeet Ratnakar, and Vrihdeshi. |
| 6. | MUSA 202 (PR) | Paper III Practical UNIT-II Stage Performance | DSC 2 C | To aware students about Ragas Malkauns, Maru Bihag and Brindabanisarang. |
| 7. | MUSA 203 (TH) | Theory of Indian Music, Medieval Granthas, and contribution of Musicians and Musicologists. | DSC 1 D | Course exposes the students to the Granthas Sangeet Parijat, Sawar Mel Kala Nidhi, Chaturdandi Prakashika. |
| 8. | MUSA 204 (PR) | Paper IV Practical UNIT (II) Viva-Voce | DSC 2 D | Course familiarizes Students with the different Ragas & Talas. |

| | | | | |
|--|--|--|--|--|
| | | | | |
|--|--|--|--|--|

| IInd YEAR | | | | |
|-------------------|--------------------------|---|-----------------------|--|
| 9. | MUSA 205 (Field Work) | SEC-I Skill enhancement Course-I Hindustani Music Presentation & Documentation (Instrumental) | SEC-I | Their performing skills will improve. |
| 10. | MUSA 206 (Field Work) | SEC-2, Skill Enhancement Course-II Hindustani Music Presentation & Documentation. | SEC-II | Students are Introduced with different instruments like Tabla & Tanpura. |
| IIIrd Year | | | | |
| 11. | MUSA 301 (Field Work) | SEC-III Skill enhancement Course-I Hindustani Music Presentation & Documentation-III (Instrumental) | SEC-III | It will lead to better understanding of rich Indian culture. |
| 12. | MUSA 302 (Field Work) | SEC-IV Skill enhancement Course-I Hindustani Music Presentation & Documentation-IV (Instrumental) | SEC-IV | It will improve students understanding of Ragas. |
| 13. | MUSA 303 (TH) | Theory of Indian Music and study of Ancient Granthas and Ragas | DSC-1 A UNIT-1 | Course exposes the students regarding Indian Music and knowledge of Granthas and Folk music of H.P. |
| 14. | MUSA 304 (PR) | Paper IV Practical UNIT (II) Stage Performance | DSE- 1A Unit -2 | Will also improve their performing skills. |

| | | | | |
|-----|------------------|---|--------------------|--|
| 15. | MUSA 305 (TH) | Theory of Indian Music and Gharana Tradition | DSC-1B Unit-1 | Course familiarizes students with Gharana Parampara of Hindustani Music. |
| 16. | MUSA 306 (PR) | Practical Viva-Voce | DSE- 1A Unit -2 | To aware students About Ragas & Talas, and how to attempt viva- voce, How to express about music. |
| 17. | MUSA 307 (TH) | Generic Elective Course Theory of Indian Music and Folk Music of Himachal Pradesh | GE - 1 | It will lead to better understanding of rich Himachali culture and Tradition of Folk. Brief Introduction about Indian Music. |
| 18. | MUSA 304 (PR) | Practical Stage Performance and Viva-Voce | GE - 2 | To aware students About Ragas & Talas, and how to attempt viva- voce, How to express about music |

7.BA हिंदी

सीबीसीएस (CBCS) के अंतर्गत स्नातक स्तरीय हिंदी पाठ्यक्रम के ध्येय एवं उद्देश्य

पाठ्यक्रम के सामान्य ध्येय एवं उद्देश्य -

- हिंदी भाषा के मानक रूप को जानने, लिखने और बोलने के लिए विद्यार्थियों को तैयार करना।
- हिंदी साहित्य के विभिन्न कालों के साथ-साथ विशिष्ट कवियों और लेखकों के जीवन और साहित्य से परिचित करवाना।
- विद्यार्थियों को खड़ी बोली के साथ-साथ हिंदी की विभिन्न बोलियों और शैलियों जैसे अवधी, मैथिली, ब्रजभाषा, सधुक्कड़ी आदि से परिचित करवाना।
- विद्यार्थियों को साहित्य की विभिन्न विधाओं जैसे कविता, नाटक, उपन्यास, कहानी, निबंध, संस्मरण, रेखाचित्र, रिपोर्टाज और अनूदित साहित्य के संबंध में तथ्यात्मक जानकारी प्रदान करना।
- विद्यार्थियों से हिंदी साहित्य की कुछ महत्वपूर्ण गद्य और पद्य रचनाओं का पठन-पाठन व विश्लेषण करवाना।
- अनुवाद और कार्यालयी हिंदी की महत्ता और कंप्यूटर पर हिंदी भाषा के अनुप्रयोग के प्रति विद्यार्थियों को जागरूक करना।
- दैनिक जीवन में काम आने वाली प्रयोजनमूलक हिंदी भाषा से विद्यार्थियों को परिचित करवाना।

पाठ्यक्रम के विशिष्ट ध्येय एवं उद्देश्य -

- विद्यार्थियों को मानसिक और मनोवैज्ञानिक रूप से साहित्य के आस्वादन के लिए तैयार करना।
- विद्यार्थियों को साहित्य की विभिन्न विधाओं में मौलिक लेखन के लिए प्रेरित करना और विभिन्न प्रसंगों के संक्षेपण और पल्लवन के लिए कौशल प्रदान करना।
- विद्यार्थियों को अपने विचारों और भावनाओं को मानक हिंदी भाषा में लिखने के लिए प्रेरित करना।
- हिंदी भाषा और साहित्य तथा इससे जुड़े क्षेत्रों में शोध करने या करियर बनाने के लिए छात्रों को तैयार करना।

- अभिव्यक्ति के दोनों माध्यमों (मौखिक और लेखन) में प्रभावी संचार की कुशलता प्रदान करना।
- छात्रों को प्रतिष्ठित शैक्षणिक संस्थानों में उच्च शिक्षा (स्नातकोत्तर और उससे ऊपर) के लिए जागरूक और सशक्त बनाना।
- प्रतियोगी परीक्षाओं जैसे स्नातकोत्तर हिंदी प्रवेश परीक्षा, नेट, सेट, स्कूल प्रवक्ता, हिंदी अनुवादक आदि के प्रति विद्यार्थियों को जागरूक बनाना और व्यक्तिगत दिग्दर्शन व पाठ्य सामग्री द्वारा उनकी सहायता करना।

प्रत्येक पर्व का ब्यौरा और ध्येय / उद्देश्य –

स्नातक प्रथम वर्ष का पाठ्यक्रम

| कोर्स का नाम | कोड | क्रेडिट | ध्येय/उद्देश्य/परिणाम |
|-------------------------------------|----------|---------|---|
| प्रयोजनमूलक हिंदी (Core Compulsory) | HIND101 | 6 | विद्यार्थी पत्र लेखन, प्रारूपण, टिप्पण व प्रतिवेदन के व्यावहारिक पक्ष पर प्रकाश डाल सकेंगे और मुहावरे, लोकोक्ति, शब्द-प्रयोग, पारिभाषिक शब्दावली, कार्यालयी हिंदी व अनुवाद और कंप्यूटर में हिंदी के प्रयोग से जुड़ी जानकारी को व्यवहार में ला सकेंगे। |
| हिंदी साहित्य का इतिहास (DSC-1A) | HIND 102 | 6 | विद्यार्थी हिंदी साहित्य के विविध कालों यथा आदिकाल, भक्तिकाल, रीतिकाल और आधुनिक काल की विविध काव्यधाराओं, प्रमुख कवियों तथा प्रत्येक काल की राजनीतिक, सामाजिक, धार्मिक, आर्थिक और सांस्कृतिक परिस्थितियों का विवेचन और विश्लेषण करने में सक्षम होंगे तथा विभिन्न कालों से जुड़े तथ्यों को बता पाने में समर्थ होंगे। |
| मध्यकालीन हिंदी कविता (DSC-1B) | HIND 103 | 6 | विद्यार्थी मध्यकाल के प्रसिद्ध कवियों कबीर, सूरदास, तुलसीदास, मीराबाई, रसखान, बिहारी, भूषण और घनानंद के जीवन तथा कृतियों से जुड़े तथ्य बता सकेंगे और इनकी काव्यगत विशेषताओं पर प्रकाश डाल सकेंगे। इसके अलावा इन कवियों की कुछ काव्य-रचनाओं की व्याख्या कर सकेंगे और केंद्रीय भाव को भी स्पष्ट कर पाएँगे। |
| हिंदी भाषा और सम्प्रेषण (AECC-2) | HIND104 | 4 | विद्यार्थी भाषा की परिभाषा, प्रकृति और उसके विविध रूपों को आत्मसात करेंगे तथा उपसर्ग, प्रत्यय, समास, स्वर, व्यंजन, उच्चारण स्थान का विश्लेषण करने के साथ-साथ भाषा सम्प्रेषण के विविध रूपों पर भी प्रकाश डाल सकेंगे। |

स्नातक द्वितीय वर्ष का पाठ्यक्रम -

| कोर्स का नाम | कोड | क्रेडिट | ध्येय/उद्देश्य/परिणाम |
|---|---------|---------|--|
| अनिवार्य हिंदी रचना पुंज (Core Compulsory) | HIND201 | 6 | विद्यार्थी कबीर, घनानंद, निराला, बालकृष्ण शर्मा नवीन, अज्ञेय, मुक्तिबोध, धूमिल की कुछ काव्य रचनाओं की व्याख्या करने में सक्षम होंगे और प्रेमचन्द, मोहन राकेश, काशीनाथ सिंह, उदय प्रकाश, महादेवी वर्मा, दिनकर, श्रीलाल शुक्ल की एक-एक गद्य रचना का पाठ-विश्लेषण कर सकेंगे व केंद्रीय भाव भी स्पष्ट कर पाएँगे। |
| आधुनिक हिंदी कविता (DSC-1C) | HIND202 | 6 | विद्यार्थी आधुनिक काल के प्रसिद्ध कवियों भारतेंदु हरिश्चंद्र, हरिऔध, मैथिलीशरण गुप्त, जयशंकर प्रसाद, निराला, अज्ञेय, नागार्जुन, नरेश मेहता के व्यक्तिगत परिचय व काव्य-कृतियों से जुड़े तथ्य बता पाने में सक्षम होंगे और इन सभी कवियों की कुछ काव्य-रचनाओं की व्याख्या भी कर पाएँगे और केंद्रीय भाव पर भी प्रकाश डाल सकेंगे। |
| हिंदी गद्य साहित्य (DSC-1D) | HIND203 | 6 | विद्यार्थी जैनेन्द्र कुमार के उपन्यास 'त्यागपत्र', हिंदी कहानियों - नमक का दारोगा, आकाशदीप, परदा, वापसी और हिंदी निबंधों - लोभ और प्रीति, कुटज, संस्कृति और शिक्षा तथा भूमंडलीकरण की तात्विक समीक्षा करने में सक्षम होंगे और इन रचनाओं का सार भी बता पाएँगे। इसके अलावा इन रचनाओं के लेखकों के व्यक्तित्व और कृतित्व पर भी प्रकाश डाल पाएँगे। |
| कार्यालयी हिंदी (SEC-1) | HIND204 | 4 | विद्यार्थी हिंदी भाषा के विविध रूपों यथा राष्ट्रभाषा, राजभाषा, जनभाषा, संचार भाषा, सर्जनात्मक भाषा और यांत्रिक भाषा में समानता और अंतर बता पाएँगे तथा टिप्पण, प्रारूपण, पल्लवन, संक्षेपण, पत्राचार, कार्यालयी हिंदी और कार्यालयी अनुवाद की प्रक्रिया तथा कठिनाइयों का विश्लेषण भी कर पाएँगे। |
| अनुवाद विज्ञान (SEC-2) | HIND206 | 4 | विद्यार्थी भाषान्तरण, भावानुवाद, छायानुवाद, आशु अनुवाद, डबिंग, कंप्यूटर अनुवाद आदि में साम्य और अंतर बता पाएँगे। वे अनुवाद के विविध रूपों काव्यानुवाद, कथानुवाद, नाट्यानुवाद की विशेषताएँ बता सकेंगे तथा अनुवाद की विधि, अनुवादक की अर्हता, विश्व की प्रसिद्ध अनूदित कृतियों और भारत के प्रमुख अनुवाद प्रशिक्षण केंद्रों के संबंध में भी तथ्यात्मक जानकारी प्रस्तुत कर सकेंगे। |

स्नातक तृतीय वर्ष का पाठ्यक्रम

| कोर्स का नाम | कोड | क्रेडिट | ध्येय/उद्देश्य/परिणाम |
|--|---------|---------|--|
| रंग आलेख एवं रंगमंच (SEC-3) | HIND301 | 4 | विद्यार्थी रूपक, उपरूपक, एकांकी, लोकनाट्य, प्रहसन, काव्यनाटक, नुक्कड़ नाटक, प्रतीक नाटक, भावनाट्य, रेडियो नाटक को परिभाषित कर सकेंगे व हिंदी के प्रमुख नाटककारों, हिंदी के शौकिया व व्यावसायिक रंगमंचों, हिंदी क्षेत्र की प्रसिद्ध रंगशालाओं, रंग शिल्प प्रशिक्षण और रंग समीक्षा के संबंध में तथ्यों व परंपराओं का विश्लेषण कर सकेंगे। |
| समाचार संकलन और लेखन (SEC-4) | HIND304 | 4 | विद्यार्थी समाचार की परिभाषा, संरचना और स्रोतों के विषय में बता सकेंगे। वे खोजी, व्याख्यात्मक और अनुवर्तनात्मक रिपोर्टिंग के साथ-साथ राजनीति, विज्ञान, कानून, साहित्य, संस्कृति, खेलकूद, पर्यावरण आदि से संबंधित रिपोर्टिंग का विश्लेषण कर सकेंगे और समाचार के क्षेत्र में लीड तथा शीर्षक के प्रकारों व उनके महत्व के बारे में भी विचार अभिव्यक्त कर पाएँगे। |
| लोक साहित्य (DSE-1A) | HIND305 | 6 | विद्यार्थी लोक साहित्य की अवधारणा को स्पष्ट कर सकेंगे और लोकगीत, लोकनाट्य, लोककथा, लोकगाथा के विविध रूपों के उदाहरण प्रस्तुत कर सकेंगे। इसके साथ ही वे हिमाचल प्रदेश की प्रसिद्ध लोकगाथाओं - भरथरी, गुग्गा, गढ़ मलौण, मदना की हार, सूही रानी, राजा जगत सिंह, सुन्नी भूकु व कुंजू-चंचलो का कथासार भी बता सकेंगे। |
| छायावादोत्तर हिंदी साहित्य (DSE-1B) | HIND306 | 6 | विद्यार्थी छायावादोत्तर काल के विख्यात कवियों अज्ञेय, मुक्तिबोध, नागार्जुन, शमशेर बहादुर सिंह, भवानी प्रसाद मिश्र, कुँवर नारायण, सर्वेश्वर, केदारनाथ सिंह के व्यक्तित्व और कृतित्व से संबंधित तथ्य प्रस्तुत कर सकेंगे, इनकी काव्यगत विशेषताओं के कुछ उदाहरण बता सकेंगे। इसके साथ-साथ इनकी कुछ प्रसिद्ध कविताओं की सप्रसंग व्याख्या भी कर सकेंगे। |
| आधुनिक भारतीय साहित्य (GE-1) | HIND307 | 6 | विद्यार्थी भारतीय नवजागरण के भारतीय स्वतंत्रता संग्राम और भारतीय साहित्य पर पड़े प्रभाव का विश्लेषण कर सकेंगे। वे गांधी व अरविंद दर्शन के साथ साथ मार्क्सवाद और अस्तित्ववाद के भारतीय साहित्य पर प्रभाव का विवेचन कर सकेंगे। इसके अलावा 'संस्कार' उपन्यास और 'घासीराम कोतवाल' नाटक की तात्विक समीक्षा कर |

| | | | |
|---|---------|---|--|
| | | | सकेंगे और गीतांजलि के कुछ पद्यों की सप्रसंग व्याख्या कर सकेंगे। |
| सर्जनात्मक लेखन के विविध क्षेत्र (GE-2) | HIND308 | 6 | विद्यार्थी रिपोर्टाज और फीचर लेखन को परिभाषित कर सकेंगे व इनकी विशेषताओं का विश्लेषण कर सकेंगे। इसके अलावा साक्षात्कार, स्तंभ लेखन, छायाचित्र, कार्टून, रेखाचित्र, ग्राफिक्स आदि की उपयोगिता का विवेचन कर सकेंगे। वे बाज़ार, खेलकूद, फ़िल्म, पुस्तक और कला समीक्षा के अलावा आर्थिक, खेल, ग्रामीण, विकास और फोटो पत्रकारिता की विशेषताएँ भी बता सकेंगे। |

8.BA History

Program Educational Objectives (PEOs)

The programme educational objective of the undergraduate programme in history take into consideration the university mission and the constituents' needs by producing graduates who, in their first years after graduation, will be able to:

1. Familiarize the social, economic, political and cultural developments in India from prehistory up to the Delhi Sultanate, focusing on socioeconomic developments and not on dynastic history, with elements of change and continuity in Indian history. Study the trends and developments in India during the Mughal and the British periods, emphasizing on Socio-Economic and cultural patterns in understanding the polity and society up to the National Movement from 1850 to 1950.
2. Study the major developments in the world from the decline of the feudal age to the French revolution. Explore major developments in the modern world during the two World Wars that led to the emergence of the Cold War Era.
3. Familiarize with the major trends of the Political, Social and Economic Developments in North East India from 1822 to the reorganization of States 1972 viz, First Anglo-Burmese War and the Treaty of Yandaboo, Consolidation of British Rule in the Hills-Khasi, Garo, Mizo Hills etc.
4. Explore the colonization of South East Asia by European Powers and related developments such as the Dutch in the Archipelago; British in Burma and Malaya; Spanish and American Power in the Philippines, the French in Indo-China, and beginnings of Nationalism in South East Asia up to the Rise and Fall of Japanese power in South East Asia.
5. Understand the major political, economic, social and military forces that shaped the history of the USA from colonial days to the Second World War.
6. Familiarize the students on Political History of the Naga from Pre-Colonial to State Formation viz, Pre-Colonial Naga Polity, British contact with Naga, Formation of Club 1918, Naga Resistance Movement-1951 to 1953. Along with the history of Christianity in Nagaland from its beginning in the nineteenth century up to 1972.

7. Study of ancient history to the nature of archaeological data, its method and the multidisciplinary approaches to the study of past societies under the themes viz., Basic concepts in Archaeology, Field methods, Reconstruction and Interpretation of evidence and Archaeology in India.

Programme Outcome (POs)

1. Demonstrate knowledge of the chronology, narrative, major events, personalities and turning points of the history of the India.
2. Provide multi-causal explanations of major historical developments based on a contextualized analysis of Modern World History.
3. Correctly extract evidence from primary sources on Naga History by analyzing and evaluating them in relation to their present cultural context and use that evidence to build and support an argument.
4. Evaluate secondary historical sources through the study of British Indian history by analyzing them in relation to the evidence that supports them, and other secondary historical literature.
5. Present orally their conclusion on an argument or a summary of scholar's findings in an organized, coherent, and compelling manner.

Programme Specific Outcomes (PSOs)

1. After completion of this course they gather knowledge about the socio-cultural heritage of India and world as well.
2. Help to grow national and international understanding among history students.
3. Careers options for students to engage as educators, archivists, producers of multimedia material and even as a researcher in historic Sites and Museums, Historical Organizations, Cultural Resources Management and Historic Preservation etc.
4. History helps them in knowing the past people, their culture, their religions, and their social systems, and transforms them into responsible citizens to make a better future.

B.A. History Programme (Annual) Courses as Discipline 1, 2018-2019

Discipline Specific Core Courses (DSC) —4 Papers (2 each in first & second year)

1. DSC I (IA): History of India from the Earliest Times up to c. 300 CE
2. DSC II (IB): History of India, c. 300 to 1206
3. DSC III (IC): History of India, c. 1206-1707
4. DSC IV (ID): History of India, c. 1707-1950

Discipline Specific Electives (DSE): 2 Papers in third year

1. DSE I: Modern and Contemporary World History I: 1871-1919 /or
2. DSE II: Issues in World History-I (The Twentieth Century)
3. DSE III: Modern and Contemporary World History II: 1919-1992 /or
4. DSE IV: Issues in World History-II (The Twentieth Century)

Generic Electives (GE): 2 Papers in third year

1. GE I: Women in Indian History /or
2. GE II: Social-Religious Reform Movements in India(19th and 20th Centuries)
3. GE III: Environmental Issues in India /or
4. GE IV: History of Himachal Pradesh, 1815-1972

Skill Enhancement Courses (SEC): 4 Papers (2 each in second & third year)

1. SEC I: Historical Tourism /or
2. SEC II: Understanding Heritage
3. SEC III: An Introduction to Archaeology /or
4. SEC IV: Crafts and Artisans: Living Traditions
5. SEC V: Indian History and Culture /or
6. SEC VI: Museums and Archives
7. SEC VII: Introduction to Indian Art /or
8. SEC VIII: Understanding Popular Culture

9. BA Public Administration

Under Graduate Program in Public Administration Under Choice Base Credit System (CBCS)

Learning Outcome:

- Students will be able to lead and manage in public governance.
- Students will participate in and contribute to the policy process.
- Students will be able to analyze, synthesize, think critically, solve problems and make decisions.
- Students will articulate and apply a public service perspective.
- Students will be able to communicate and interact productively with a diverse and changing work force and citizenry.

Program Specific Outcome:

Students after the completion of the B.A. Public administration will be able to

- Develop a better understanding of actual working of the public administration along with its theoretical underpinnings and practices.
- Demonstrate analytical prowess to grasp the issues and concerns of administration and public.
- Develop skills and aptitude to lead and manage the public and non-profit organization.
- Discuss, debate and communicate effectively on any issues concerning administration politics and society
- Be able to contribute/develop/formulate a public policy response to social or economic problem.

Course Outcome

B.A. 1st Year

| <u>Sr.</u> <u>No.</u> | Title of The Course | Course Code | Credits | Outcome |
|--------------------------|-----------------------|-------------------|---------|--|
| <u>1.</u> | Administrative Theory | PUBA 101-A DSC-1A | 6 | It intends to acquaint the students with the basic knowledge of evolution of the separate discipline as a Public Administration along with various theories and principals of Public Administration. |
| <u>2</u> | Indian Administration | PUBA 102-A DSC-1B | 6 | It intends to familiarize the students with background of Indian administration their structure at Union and state level, controlling authority of administration and changing nature of administration in post liberalized world. |

B.A. IInd Year

| <u>Sr.</u> | Title of The Course | Course Code | Credits | Outcome |
|------------|---------------------|-------------|---------|---------|
|------------|---------------------|-------------|---------|---------|

| <u>No.</u> | | | | |
|------------|----------------------------|-----------------------|---|---|
| <u>1.</u> | Administrative Thinkers | PUBA 201- A DSC-1 | 6 | To acquire the students with the administrative thinker's life and their works along with contributions and thought to Public Administration and on Indian Administration. |
| <u>2.</u> | Development Administration | PUBA 202-A DSC- 1D | 6 | This course attempts to develop a better understanding about development administration. Under this students will be taught about the concept, debates machinery of planning, role of civil society, peoples participation and so on. |

B.A. IIIrd Year

| <u>Sr. No.</u> | Title of The Course | Course Code | Credits | Outcome |
|----------------|--|--|---------|--|
| <u>1</u> | Local Governance IA OR Contemporary Issues & Concerns in Indian Administration | PUBA303-A DSC- 1A (Option -1) PUBA304-A DSC- 1A (Option -II) | 6 | To acquire the students with the local and rural governance, constitutional provisions along with issues and challenges related to rural and local governance OR This course attempts to familiarize students about contemporary debate, discourse, issues and concern and challenges in Indian Administration along with initiatives taken for Administrative reforms. |
| <u>2.</u> | Public Policy and Administration in India OR Financial Administration | PUBA305-A DSC- 1A (Option -II) (Option -II) PUBA306-A DSC- 1B | 6 | This course attempts to develop an understanding about public policy in India and the emerging policy concerns in Indian Administration and their global dimensions. Policy analysis will be understood as a tool of research and evaluation with the help of assignment work. OR This course attempts to develop an understanding about Financial Administration in India. Under This, students will be taught about budget, revenue, expenditure, deficit, inflation, and parliamentary control etc. which will help them to understand the issues, concerns of nuances of Financial Administration. |
| <u>3.</u> | Constitutional and Administrative Aspects of | PUBA307-A GE-1 | 6 | This course attempts to develop a better understanding of constituent development of Himachal Pradesh with serial |

| | | | | |
|----|--|--|---|--|
| | Himachal Pradesh | (Option -1) | | reference to its journey from chief commissioner province to union territory c state and to statehood. This course also attempts to understand the administrative evolution of Himachal Pradesh and its functioning and the administrative structure. |
| 4. | Disaster Management OR E- Governance | PUBA308-A GE-2 (Option -II) PUBA309-A GE-2 (Option -II) | 6 | This course attempts to develop a better understanding of Disaster Management, stages and machinery along with role of ICT, NGO, and inter-state cooperation of social welfare in India. OR This course intends to make aware the students about the concept of E- Management, Understand the technical, legal and instructional framework supporting E- Governance implementation in India. Also, familiarize the students to the issues and Challenges in E – Governance in India. |

DSC- Discipline Specific Course, DSE- Discipline Specific Elective Course , GE - Generic Elective Course

10. BA Economics

Programme Specific Outcomes

PROGRAMME OUTCOME

1. Students will be able to pinpoint and understand the past, present economic conditions of the country.
2. Students will also be able to forecast the future course of changes and development through their knowledge of policies and programmes set by the governments and other development agencies.
3. Students will be able to analyze human behavior, problems or situations from social science, crosscultural and global perspectives.
4. Students will be able to evaluate how theories and models within the social sciences have been established and maintained through systems of power and oppression.

After graduation the student will be able to learn-

PSO 1: The behavioural patterns of different economic agents, advance theoretical issues and their applications.

PSO 2: Macroeconomics

PSO 3: Understand the basic concept of microeconomics.

PSO 4: Acquaint with some basic statistical methods to be applied in economics. PSO 5: Acquaint with some basic mathematical methods

- to be applied in economics. PSO 6: Acquaint with some basic theoretical concept of public finance.
- PSO 7: Acquaint with the measurement of development with the help of theories along with the conceptual issues of poverty and inequalities with Indian perspectives.
- PSO 8: Delineate the fiscal policies designed for developed and developing economics.
- PSO 9: Facilitate the historical developments in the economic thoughts propounded by different schools.
- PSO 10: Learn the basic concept of monetary analysis and financial marketing in Indian financial markets.
- PSO 11: Learn the development issues of Indian economy.
- PSO 12: Acquaint with some basic concept of environmental economics along with the solution of the environmental problems.
- PSO 13: Learn the real and monetary sides of International economics. PSO 14: Acquaint with the characteristics of the economy of Himachal Pradesh.

BA 1st Year

| Serial No. | Name of the course | Course Code | Credits | Outcome |
|------------|----------------------------------|-------------|---------|--|
| 1 | Principles of Microeconomics – I | ECONA101 | 6 | Introduction, Consumer theory, Production and Costs, Market Structure and Perfect Competition |
| 2 | Principles of Microeconomics–II | ECONA102 | 6 | Theory of a Monopoly Firm, Monopolistic Competition and Oligopoly Market Failure and Factor Pricing, Factor Pricing |

BA 2nd Year

| Serial No. | Name of the course | Course Code | Credits | Outcome |
|------------|--------------------------------|-------------|---------|--|
| 1 | Principles of Macroeconomics–I | ECONA201 | 6 | Introduction to Macroeconomics and National Income Accounting, Classical and Keynesian Theory of Macroeconomics, Consumption, Saving and Investment Functions, Money in a Modern Economy |
| 2 | Principles of | ECONA202 | 6 | Multiplier and Accelerator, Theories of Money and |

| | | | | |
|----------|---------------------------------------|-----------------|---|---|
| | Macroeconomics–II | | | Inflation, IS-LM Analysis, Balance of Payments and Exchange Rate |
| 3 | Statistical Methods – I | ECONA203 | 4 | INTRODUCTION TO STATISTICS, CENSUS AND SAMPLE, MEASURES OF CENTRAL TENDENCY, DISPERSION |
| 4 | Economics of Rural Development | ECONA204 | 4 | Introduction of Rural Economy, Unemployment and Poverty, Rural Indebtedness, Decentralisation, Infrastructure and Rural Marketing |
| 5 | Statistical Methods – II | ECONA205 | 4 | CORRELATION ANALYSIS, REGRESSION ANALYSIS, ANALYSIS OF TIME SERIES , INDEX NUMBERS |
| 6 | Demography | ECONA206 | 4 | Theories of Population, Components of Population Growth, Migration and Urbanization, Growth and Structure of Indian Population |

BA 3rd Year

| Serial No. | Name of the course | Course Code | Credits | Outcome |
|-------------------|--|--------------------|----------------|--|
| 1 | Indian Economy | ECONA301 | 6 | Understanding the Indian Economy, Problems Faced by Indian Economy, Agriculture in India, Industries in India |
| 2 | Economic History of India 1857 – 1947 | ECONA302 | 6 | Introduction, Agriculture, Railways and Industry, Economy and State in the Imperial Context, Indian Economic Thought |
| 3 | Economy of Himachal Pradesh | ECONA303 | 6 | Features of Himachal Pradesh Economy, Agriculture and Horticulture of Himachal Pradesh, Industrial and Power Sector of Himachal Pradesh, Infrastructure and Tourism of |

| | | | | |
|----|--------------------------------|-----------------|---|---|
| | | | | Himachal Pradesh |
| 4 | Basic Econometrics | ECONA304 | 6 | Elements of Statistical Inference, Simple Linear Regression Models, Multiple Regression Models, Regression with Dummy Variables |
| 5 | Development Economics | ECONA305 | 6 | Economic Development: Meaning and Measurement, Factors in Development and Indian Development Experience, Theories of Under Development and Development, Theories of Development |
| 6 | International Economics | ECONA306 | 6 | Introduction to International Trade and Trade Theories, Terms of Trade, Tariff and Economic Integration, Balance of Payment, Foreign Exchange Rate |
| 7 | Mathematical Economics | ECONA307 | 6 | Introductory Concepts, Differentiation, Concept of Matrix and Determinant, Input – Output & Linear Programming |
| 8 | Economic Systems | ECONA308 | 6 | Introduction to Economic Systems, Capitalism, Socialism, Mixed Economic System |
| 9 | Research Methodology | ECONA309 | 4 | Introduction to Research Methodology, Measurement and Scaling Techniques, Testing of Hypotheses, Data Preparation, Analysis and Report Writing |
| 10 | Public Finance | ECONA310 | 4 | Public Finance: An Introduction, Taxation, Public Expenditure and Public Debt, Public Finance in India |
| 11 | Money and Banking | ECONA311 | 4 | Money: Theory and Approaches, Financial Markets: Money Market and Capital Market, Commercial Banking, Central Banking and Monetary Policy |
| 12 | Project Work | ECONA312 | 4 | The project <i>must</i> relate to economic issues/problems. The Project report shall consist of following components: The Project will involve an extended, independent investigation of a topic and preparation of a dissertation. The chosen research area must be of a nature that incorporates an in depth exploration of economic concepts, theories and issues so as to produce a rigorous dissertation. Primary data based projects are encouraged. |

COMMON COURSES OFFERED BY DEPARTMENT OF ECONOMICS FOR BA IN ECONOMICS

| SN | COURSE NAME | TITLE | CODE | YEAR | TYPE OF COURSE |
|-----|--|----------|-----------|------|-------------------|
| 1 | Introductory Microeconomics | DSC – 1 | ECONHA101 | I | DSC |
| | | GEC – I | ECONHA105 | I | GEC |
| 2 | Introductory Macroeconomics | DSC – 3 | ECONHA103 | I | DSC |
| | | GEC – 2 | ECONHA106 | I | GEC |
| 3 | Indian Economy – I | DSC – 11 | ECONHA301 | I | DSC |
| | | GEC – 4 | ECONHA212 | I | GEC |
| 4. | Indian Economy – II | DSC – 3 | ECONHA303 | I | DSC |
| | | GEC – 6 | ECONHA214 | I | GEC |
| 5. | Economics of Rural Development | SEC – 2 | ECONA204 | II | SEC / PASS COURSE |
| | | SEC – 1 | ECONHA207 | II | SEC |
| 6. | Economy of Himachal Pradesh | DSE – 3 | ECONA303 | III | DSE / PASS COURSE |
| | | GEC – 1 | ECONA313 | III | GEC / PASS COURSE |
| | | DSE – 9 | ECONHA313 | III | DSE |
| | | GEC – 6 | ECONHA214 | III | GEC |
| 7. | Economic History of India 1857 – 1947 | DSE – 2 | ECONA302 | III | DSE / PASS COURSE |
| | | DSE – 2 | ECONHA306 | III | DSE |
| 8. | Environmental Economics | GEC – 3 | ECONHA211 | II | GEC |
| | | GEC – 5 | ECONA316 | III | GEC / PASS COURSE |
| | | DSE – 1 | ECONHA305 | III | DSE |
| 9. | International Economics | DSE – 6 | ECONA306 | III | DSE / PASS COURSE |
| | | DSE – 6 | ECONHA310 | III | DSE |
| 10. | Public Finance | SEC – 2 | ECONHA208 | II | SEC |
| | | SEC – 6 | ECONA310 | III | SEC / PASS COURSE |
| 11. | Money and Banking | SEC – 6 | ECONHA209 | II | SEC |
| | | SEC – 7 | ECONA311 | III | SEC / PASS COURSE |
| 12. | Demography | SEC – 4 | ECONA206 | II | SEC / PASS COURSE |
| | | SEC – 4 | ECONHA210 | II | SEC |