



# Government College Bilaspur

District- Bilaspur, Himachal Pradesh, India, Pin - 174001

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(NAAC Accredited B Grade College)

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**PROGRAM OUTCOMES (PO)**

**PROGRAM SPECIFIC OUTCOMES (PSO)**

**COURSE OUTCOMES (CO)**

## B.Sc. Botany

### PROGRAMME OUTCOMES:

- Eligibility for perusing higher studies as well as for jobs in government and private sectors.
- Knowledge and understanding of various aspects of botany.
- Developing professional skills through skill enhancement courses.
- Scientific temperament will lead to think critically to solve the problems in a structured and scientific way.
- The students will be able to apply the knowledge in understanding research problems.

### PROGRAMME SPECIFIC OUTCOMES

- ✓ To enable the students to understand diversity among different plant groups.
- ✓ To understand relationship of plants with environment in terms of ecological factors.
- ✓ To enable the students to identify and classify plants in to various taxonomic groups.
- ✓ To enable them to understand anatomy, physiology, metabolism and life cycle of plants.
- ✓ To understand the utility of economically important plants.
- ✓ To provide them knowledge about cell structure, cell cycle, molecular biology and biotechnology.
- ✓ To develop practical skills in mushrooms cultivation, gardening and floriculture.

### COURSE OUTCOMES

COURSE TYPE	TITLE	CODE	COURSE OUTCOME
DISCIPLINE SPECIFIC COURSES (DSC)	Biodiversity (Microbes, Algae, Fungi and Archegoniate)	BOTA 101	<b>Students will be able to understand :</b> <ul style="list-style-type: none"><li>✓ Diversity among different plant groups.</li><li>✓ Microbes i.e. viruses and bacteria.</li><li>✓ Classification, life cycle and economic importance of algae, fungi, bryophytes, pteridophytes and gymnosperms.</li></ul>
DSC	Plant Ecology And Taxonomy	BOTA 102	<b>Students will acquire knowledge about :</b> <ul style="list-style-type: none"><li>✓ Plant ecology, scope and importance.</li><li>✓ Role of ecological factors.</li><li>✓ Plant communities, composition</li></ul>

			<ul style="list-style-type: none"> <li>and characters.</li> <li>✓ Ecosystem, food chain, food web, trophic levels</li> <li>✓ Plant identification, classification and nomenclature according to ICBN.</li> <li>✓ Herbarium: Important herbaria and botanical gardens of India and world.</li> <li>✓ Different plant classification systems.</li> </ul>
DSC	Plant Anatomy And Embryology	BOTA 201	<p><b>Students will be able to understand :</b></p> <ul style="list-style-type: none"> <li>✓ Different plant tissue systems.</li> <li>✓ Anatomy of root, stem and leaf.</li> <li>✓ Secondary structures, cambium, secondary growth and anomalous secondary growth.</li> <li>✓ Structure of anther, pollen grains, microsporogenesis and megasporogenesis.</li> <li>✓ Structure of embryo sac, ovule and types of ovule.</li> <li>✓ Mechanism of pollination and agencies of pollination.</li> <li>✓ Development of embryo, endosperm and structure of seed.</li> </ul>
DSC	Plant Physiology And Metabolism	BOTA 202	<p><b>Students will be able to understand :</b></p> <ul style="list-style-type: none"> <li>✓ Plant water relation, osmosis, diffusion, guttation and transpiration.</li> <li>✓ Mechanism of photosynthesis, phloem loading and unloading.</li> <li>✓ Enzymes, mechanism of action, nitrogen metabolism.</li> <li>✓ Plant growth hormones, vernalization and photoperiodism.</li> </ul>
SEC	Biofertilizer	BOTA 203	<p><b>Students will get basic idea about:</b></p> <ul style="list-style-type: none"> <li>✓ Biofertilizers, use of microbes as biofertilizers.</li> <li>✓ Green manuring and vermicomposting.</li> </ul>

SEC (Skill Enhancement Course)	Gardening and Floriculture	BOTA 204	<b>Students will learn basic techniques of :</b> <ul style="list-style-type: none"> <li>✓ Landscaping.</li> <li>✓ Routine gardening operations</li> <li>✓ Raising flowering and ornamental plants.</li> <li>✓ Art of topiary and bonsai.</li> <li>✓ Post harvest management and marketing of flowers.</li> </ul>
DSE (Discipline Specific Elective)	Economic Botany And Biotechnology	BOTA 301	<b>Students will acquire knowledge about :</b> <ul style="list-style-type: none"> <li>✓ Important cereals, spices, pulses, oil and fibre yielding plants.</li> <li>✓ Cultivation practices of rice, wheat.</li> <li>✓ Processing of tea, coffee and sugarcane.</li> <li>✓ Recombinant DNA, vectors.</li> <li>✓ Plant tissue culture.</li> <li>✓ Gene transfer techniques, DNA fingerprinting and gene sequencing.</li> </ul>
DSE	Cell And Molecular Biology	BOTA 303	<b>Students will be able to understand:</b> <ul style="list-style-type: none"> <li>✓ Basics of microscopy</li> <li>✓ Prokaryotic and eukaryotic cell.</li> <li>✓ Cell organelles, cell cycle and cell division.</li> <li>✓ Genetic material, DNA, RNA and genetic code.</li> <li>✓ Gene expression and regulation.</li> </ul>
SEC	Medicinal Botany and Ethnobotany	BOTA 306	<b>Students will get basic idea of :</b> <ul style="list-style-type: none"> <li>✓ Ethnobotany: History and development.</li> <li>✓ Uses of plants by tribal people.</li> <li>✓ Conservation of Plant genetic resources.</li> <li>✓ Traditional knowledge and IPR</li> </ul>
SEC	Mushroom Cultivation Technology	BOTA 307	<b>Students will know basic techniques of :</b> <ul style="list-style-type: none"> <li>✓ Production of spawn and compost.</li> <li>✓ Cultivation and harvesting of mushrooms.</li> <li>✓ Marketing and post harvest management of mushrooms.</li> </ul>

## B.Sc. CHEMISTRY

### **PROGRAM OUTCOMES/ PROGRAM SPECIFIC OUTCOMES**

- **KNOWLEDGE AND LEARNING:** This program enables students to learn about the basic principles of the main areas of the organic, inorganic and physical chemistry and graduates will be able to apply the knowledge in various applications.
- **SKILL DEVELOPMENT AND APPLICABILITY:** Students will be able to know the analytical, business, pharmaceutical skills and learn various chemical technologies to apply in different, professional and personal, fields of their life.
- **LEARNING AND EARNING:** Students are exposed to the qualitative and quantitative aspects of chemistry. Graduates will be able to earn from different fields such as industrial area, govt. sector, public service, self-employment etc. where precise, accurate, logical, qualitative and quantitative decision are required.
- **PRACTICAL APPLICATION:** Graduates know proper procedure for the safe handling, storage and use of the chemicals. They will be able to use laboratory equipments, instruments and techniques to carry out experiments.
- **SOCIAL AND COMMUNICATION EFFICIENCY:** Program will enable students to function on multi-disciplinary context by studying other courses of physics, mathematics, botany, zoology, ability enhancement compulsory courses and other communicable languages.
- **ENVIRONMENTAL ASPECT:** This program will educate students about benefits and adverse effects of pesticides and also make students to learn their structure activity relationship. Program also includes a compulsory course of environmental science to make students aware of all kinds of environmental issues of the present scenario.
- **LOGICAL AND ANALYTICAL THINKING DEVELOPMENT:** After completion one will be able to solve chemistry related, job related, ethical, social and any kind of problems by data presentation, data analysis, referencing literature and analyzing results.

## Course Outcomes

Year	Course type (DSC/ DSE/ SEC)	Course Code	Course Name	Course Outcomes
<b>I</b>	DSC	CHEM101TH CHEM101PR	ATOMIC STRUCTURE, BONDING, GENERAL ORGANIC CHEMISTRY & ALIPHATIC HYDROCARBONS	<ul style="list-style-type: none"> <li>• In this course students will learn regarding the atomic and molecular structure.</li> <li>• Chemical bonding along with VB, VSEPR and MO theory.</li> <li>• Fundamentals of organic chemistry and stereochemistry</li> <li>• Aliphatic hydrocarbons including alkanes, alkenes and alkynes</li> <li>• Lab course includes volumetric analysis, purification of organic compounds by crystallization and separation of mixture by chromatography.</li> </ul>
	DSC	CHEM102TH CHEM102PR	STATES OF MATTER, CHEMICAL KINETICS & FUNCTIONAL ORGANIC CHEMISTRY	<ul style="list-style-type: none"> <li>• This course includes physical and organic chemistry.</li> <li>• Students know about the various states of matter i.e. solid, liquid and gases.</li> <li>• Students also learn about the kinetic theory of gases and chemical kinetics.</li> <li>• Qualitative treatment of collision and activated complex theory of bimolecular reactions.</li> <li>• The organic part gives descriptive knowledge about the aromatic hydrocarbons, alkyl halides, alcohols, phenols, ethers and aldehydes &amp; ketones (upto 5 carbons) along</li> </ul>

				<p>with some important naming reactions.</p> <ul style="list-style-type: none"> <li>• Lab course includes surface tension and viscosity measurements, study of kinetics of hydrolysis and saponification, systematic qualitative organic analysis of organic compounds possessing mono-functional groups.</li> </ul>
II	DSC	CHEM201TH CHEM201PR	SOLUTIONS, PHASE EQUILIBRIUM, CONDUCTANCE, ELECTROCHEMISTRY & ORGANIC CHEMISTRY	<ul style="list-style-type: none"> <li>• This course gives in depth knowledge about various solutions and their importance in our daily life. Phase Equilibrium part gives knowledge of one and two component systems along with complete explanation of phase diagrams.</li> <li>• Conductance part tells about the electrolytes, migration of ions, transference number and acid base conductometric titrations. Electrochemistry part gives knowledge about the reduction, oxidation, EMF data and about the various types of cells.</li> <li>• Organic chemistry includes carboxylic acids and their derivatives, amines and diazonium salts.</li> <li>• Carbohydrates and their chemistry make students to better understand the classification, ascending and descending of series and structure elucidation in</li> </ul>

			<ul style="list-style-type: none"> <li>biochemistry.</li> <li>Lab course gives experimental knowledge about distribution law, conductance, preparation of organic compounds and various organic techniques.</li> </ul>
DSC	CHEM202TH CHEM202PR	CHEMISTRY OF MAIN GROUP ELEMENTS, CHEMICAL ENERGETICS AND EQUILIBRIA	<ul style="list-style-type: none"> <li>To educate the students about main group elements of periodic table.</li> <li>Chemical energetic gives knowledge about various thermodynamic laws.</li> <li>Course also includes chemical and ionic equilibria.</li> <li>Lab work makes students enable with inorganic mixture analysis and thermochemical &amp; ionic equilibria techniques.</li> </ul>
SEC 1	CHEM203TH	BASIC ANALYTICAL CHEMISTRY	<ul style="list-style-type: none"> <li>This course develops the analytical thinking and awareness, includes basic analytical terms and its applications to soil, food and environment.</li> <li>This course gives students knowledge about the qualitative and quantitative aspects of chemistry.</li> <li>A section of this course develops industrial skills and awareness regarding adulterations, contaminants and pollutants etc.</li> </ul>
SEC 2	CHEM204TH	FUEL CHEMISTRY & CHEMISTRY OF COSMETICS &	<ul style="list-style-type: none"> <li>Students will come to know about the commercial products</li> </ul>

			PERFUMES	like fuels, cosmetics and perfumes.
III	DSE (Choose any one from given three)	CHEM301TH CHEM301PR	POLYNUCLEAR HYDROCARBONS, DYES, HETEROCYCLIC COMPOUNDS AND SPECTROSCOPY (UV, IR, NMR)	<ul style="list-style-type: none"> <li>Students will come to know about polynuclear hydrocarbons, synthetic dyes and heterocyclic compounds along with their mechanism.</li> <li>This course includes application of UV, IR and NMR spectroscopy to simple organic molecules through which students can be able to do structure elucidation of organic compounds.</li> <li>Lab course gives the practical knowledge of paper chromatographic technique, preparation of inorganic coordinate compounds and estimation of concentration of coloured compounds by colorimetry.</li> </ul>
		CHEM302TH CHEM302PR	INDUSTRIAL CHEMICALS AND ENVIRONMENT	<ul style="list-style-type: none"> <li>This course is useful for industrial metallurgy, industrial gases and some important inorganic chemicals.</li> <li>Students will learn about water, air, nuclear pollutions, sources of energy and environment.</li> <li>Biocatalysis and importance of green chemistry is also there in this course.</li> <li>Lab work enables the students about the industrial and environmental chemistry.</li> </ul>

	CHEM303TH CHEM303PR	QUANTUM CHEMISTRY, SPECTROSCOPY & PHOTOCHEMISTRY	<ul style="list-style-type: none"> <li>• This course deals with quantum mechanics.</li> <li>• Molecular, raman, electronic and NMR spectroscopy helps the students for structure elucidation of molecules.</li> <li>• Photochemistry and role of photochemical reactions in biochemical processes gives students more clarity to understand the chemical concepts.</li> <li>• Lab course includes verification of Lambert Beer's law, kinetics and analysis of spectrum.</li> </ul>
DSE (Choose any one from given three)	CHEM304TH CHEM304PR	CHEMISTRY OF TRANSITION AND INNER TRANSITION ELEMENTS, COORDINATION CHEMISTRY, ORGANOMETALLICS, ACIDS & BASES	<ul style="list-style-type: none"> <li>• This course helps in gaining knowledge about the transition and inner transition elements of periodic table and also about the coordination and organometallic Compounds.</li> <li>• CFT, different definitions of acids and bases, HSAB principle and their applicability in daily life are also included in the course.</li> <li>• Iodometric, iodimetric, gravimetric and complexometric titrations along with inorganic preparations are there in lab course.</li> </ul>
	CHEM305TH CHEM305PR	POLYMER CHEMISTRY	<ul style="list-style-type: none"> <li>• This course gives basic introduction and history of polymeric materials.</li> <li>• Mechanism and Kinetics of polymerization.</li> <li>• Determination of crystallinity, morphology of crystalline polymers.</li> <li>• Determination of molecular weight of polymers by different methods, glass transition temperature, polymer solution.</li> </ul>

				<ul style="list-style-type: none"> <li>• Properties of polymers and brief introduction to preparation, structure, properties and application of some important and useful polymers.</li> <li>• Practical work includes preparation of some polymers and molecular weight determination by different methods.</li> </ul>
		CHEM306TH CHEM306PR	MOLECULES OF LIFE	<ul style="list-style-type: none"> <li>• In this course students learn about the bio-inorganic chemistry.</li> <li>• Chemistry of Biologically important molecules like lipids, amino acids, peptides, proteins, enzymes and nucleic acids is included in this course.</li> <li>• Mechanism of enzyme action, factors affecting it and structure activity relationship of drug molecules is there in this course.</li> <li>• Concept of energy in biosystems.</li> <li>• Molecules of life lab teaches different chemical techniques to separate, extract, study of action and effect of temperature on salivary amylase on starch and determination of sponification and iodine value on fats/oils.</li> </ul>
SEC 3		CHEM307	CHEMICAL TECHNOLOGY & SOCIETY AND BUSINESS SKILLS FOR CHEMISTRY	<ul style="list-style-type: none"> <li>• In this students learn about the benefits of chemistry in society and some business skills in chemical technology.</li> </ul>
SEC 4		CHEM308	PESTISIDE CHEMISTRY & PHARMACEUTICAL CHEMISTRY	<ul style="list-style-type: none"> <li>• This course gives students knowledge about the different pesticides and some common pesticides used in agriculture.</li> <li>• This course helps to understand drug discovery, design and development to make students fit for pharmaceutical industry.</li> </ul>

## **B.Sc. Zoology**

### **Programme Outcome (PO)**

- **Eligibility and Employability**

Main outcome of the programme is that after the course graduates become eligible for employment in government as well as private sectors, create capability to acquire any reputed professional career in country and abroad. They will attain eligibility to successfully pursue their career objectives in higher education, scientific career in government or industry, a teaching career in the school systems, or in a related career following post graduation.

- **Logical and Analytic Thinking Ability**

The graduate will acquire scientific temperament to analyze any problem he comes across by demonstrating logical and analytic thinking ability.

- **Communication efficiency**

The graduate will work and communicate efficiently in inter-disciplinary environment, either independently or in a team, and demonstrate leadership quality.

- The graduate will understand the impact of zoological science on society.

### **Programme Specific Outcome (PSO)**

- They understand the basic concepts of zoological sciences, evolution, animal physiology, genetics, applied zoology and importance of biodiversity in our life.
- Able to understand relationship between biotic and abiotic component of our environment.
- Graduates will understand the issues of environmental contexts and sustainability development.
- Understand laboratory practices and research oriented skills.
- Understands the utility of zoology in apiculture, aquaculture, sericulture and medicine.
- The study of genetics provides them the knowledge of genes, cell and inheritance. Evolutionary biology provides the knowledge of evolution of animals including man in nature.
- Medical diagnostics, applied Zoology and Insect vector study provides the knowledge of diseases, economic importance of animals and causative organisms of diseases respectively.
- Enable the student to know the importance and general properties of amino acids and their role in the human body.
- Help the student to know the role of biotechnology in animal husbandry.

- Enable the student to develop scientific attitude where student shall have a desire to know and understand, questioning to all various statements, search for data and their meaning, search for verification, and consideration of consequences.
- Studying Zoology starts with real life issues, student shall be able to describe the structure of the organs of the reproductive system in males and females and shall also be able explain and compare the processes of spermatogenesis, oogenesis and fertilization.

### Course Outcomes- B.Sc. with Zoology Pass Course (Annual Pattern)

Paper Code	Paper Title	Course outcome
<b>B.Sc. I<sup>st</sup> Year</b>		
<b>Core Course</b>  <b>DSC IA</b> <b>ZOOL 101TH</b> <b>ZOOL 101PR</b>	<b>Animals Biodiversity</b>	Students should be able to know the following <ul style="list-style-type: none"> <li>• Classification of all the non chordate phylums and general characters</li> <li>• Locomotory organelles and locomotion in protists</li> <li>• Canal system of <i>Sycon</i></li> <li>• Life cycle of <i>Taenia</i> , <i>Ascaris</i></li> <li>• Metamerism in annelida, vision in arthropoda, torsion in gastropods, water vascular system in asteroidean</li> <li>• General characters &amp; classification of protochordates, fishes, amphibia, reptilia, aves &amp; mammals.</li> <li>• The students should be able to classify and differentiate between various of non chordates</li> </ul>
<b>DSC IB</b> <b>ZOOL 102TH</b> <b>ZOOL 102PR</b>	<b>Comparative Anatomy and Developmental Biology of Vertebrates</b>	<ul style="list-style-type: none"> <li>• Knowledge of integumentary system</li> <li>• Evolution of visceral arches</li> <li>• Brief idea of Alimentary canal and its glands</li> <li>• Brief account of different respiratory organs</li> <li>• Evolution of aortic arches &amp; heart</li> <li>• Succession of kidneys</li> <li>• Structure of brain in different vertebrates classes</li> <li>• Brief idea of sensory organs</li> <li>• Brief idea of gametogenesis &amp; fertilization</li> <li>• Development of embryos, placenta in mammals</li> <li>• Metamorphosis in frog</li> <li>• The students were imparted knowledge regarding above said objectives, which were testify through the exams.</li> </ul>

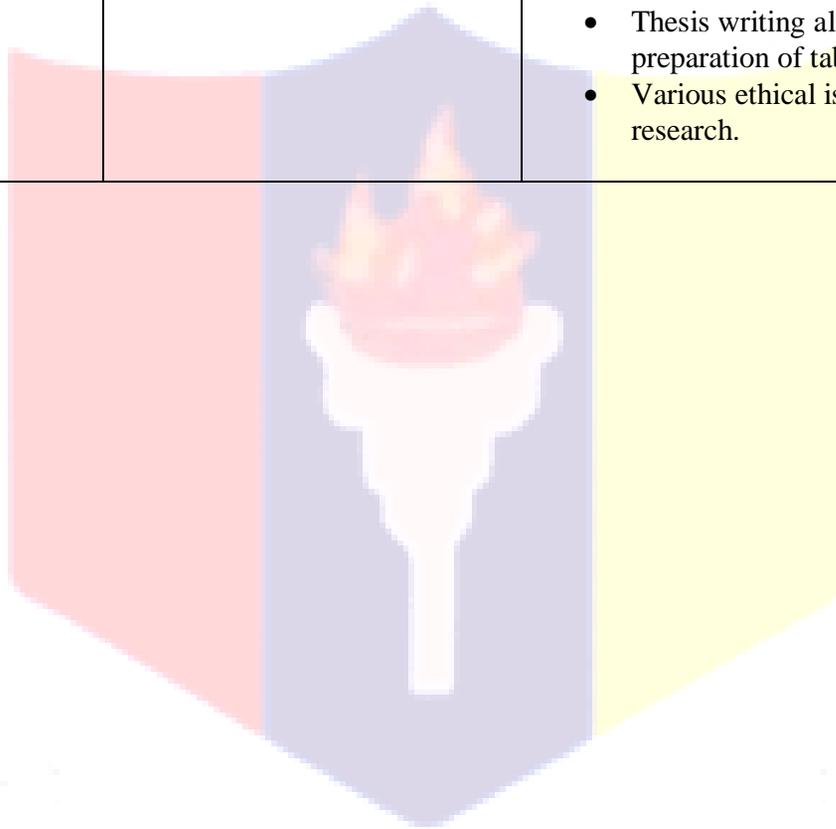
**B.Sc. II<sup>nd</sup> Year**

<b>DSC IC ZOOL 201TH ZOOL 201PR</b>	<b>Physiology and Biochemistry</b>	<ul style="list-style-type: none"><li>• Structure of neuron, origin &amp; propagation of nerve impulse</li><li>• Physiology of digestion, pulmonary respiration, transport of oxygen &amp; carbon dioxide</li><li>• Structure of nephron, composition of blood</li><li>• Structure and function of endocrine glands</li><li>• Metabolism of carbohydrates, lipids &amp; proteins</li><li>• Enzymes</li></ul>
<b>DSC ID ZOOL 202TH ZOOL 202PR</b>	<b>Genetics and Evolutionary Biology</b>	<ul style="list-style-type: none"><li>• Mendel's work, aspects of inheritance, linkage, crossing over, chromosomal mapping &amp; mechanisms of sex determination, mutations</li><li>• Evolutionary theories &amp; evidences</li><li>• Concept of species, macro evolutionary principles &amp; mass extinction.</li><li>• Course outcome : the students must have clear concept of the above said objectives</li></ul>
<b>SEC-I ZOOL203TH</b>	<b>Medical Diagnostics</b>	<ul style="list-style-type: none"><li>• Medical diagnostics &amp; its importance</li><li>• Various diagnostic methods for analysis of blood, urine.</li><li>• Knowledge of infectious diseases, tumours &amp; their types, knowledge of medical imaging.</li> <li>• Knowledge of medical diagnostics methods, infectious diseases, tumour types and various medical imaging must be known by BSc students.</li></ul>
<b>SEC-II ZOOL204TH</b>	<b>Apiculture</b>	<ul style="list-style-type: none"><li>• History, classification &amp; biology of honey bee</li><li>• Artificial bee rearing &amp; knowledge of bee keeping equipments &amp; method of honey extraction</li><li>• Knowledge of bee diseases &amp; their control measures</li><li>• Knowledge of apiculture industry and entrepreneurship in apiculture.</li><li>• Course outcome: The student must have the knowledge of apiculture, disease in bees &amp; their control and</li></ul>

		<ul style="list-style-type: none"> <li>utilization of apiculture to increase the benefits &amp; income.</li> </ul>
<b>B.Sc.III<sup>rd</sup> Year</b>		
<b>Elective courses</b>  <b>DSE IA</b> <b>ZOOL 301 (A) TH</b> <b>ZOOL 301 (A) PR</b>  OR	<b>Applied Zoology</b>  OR	<b>Applied Zoology</b> <ul style="list-style-type: none"> <li>Introduction to host-parasite relationship</li> <li>Epidemiology of diseases like TB, Typhod</li> <li>Life history of <i>Entamoeba</i>, <i>Plasmodium</i>, <i>Trypanosoma</i>, <i>Ancylostoma</i>, <i>Wuchereria</i></li> <li>Insects of Medical and economic importance</li> <li>Knowledge of Animal husbandary, poultry farming and Fish technology</li> </ul>
<b>DSE IA</b> <b>ZOOL 301 (B) TH</b> <b>ZOOL 301 (B) PR</b>  OR	<b>Animal Biotechnology</b>  OR	<b>Animal Biotechnology</b> <ul style="list-style-type: none"> <li>Biotechnology &amp; its scope, applications, concept of gene manipulation, use of microbes &amp; its benefits</li> <li>Concept of genetically modified organisms &amp; their applications</li> <li>To develop the understanding of animal cell culture, genetic disorders &amp; their diagnosis, knowledge of gene therapy</li> <li>Students should be able to operate different equipments like centrifuge, PCR etc. &amp; gel electrophoresis. They were able to culture the microbes</li> </ul>
<b>DSE IA</b> <b>ZOOL 301 (C) TH</b> <b>ZOOL 301 (C) PR</b>	<b>Aquatic Biology</b>	<b>Aquatic Biology</b> <ul style="list-style-type: none"> <li>Breif Knowledge of Different aquatic biomes</li> <li>Fresh water biology of lakes and streams</li> <li>Biotic and abiotic characters</li> <li>Study of components of marine biology</li> <li>Causes of pollution of water and its preventing measures.</li> <li>Students must have knowledge of aquatic biomes, fresh water, biotic &amp; abiotic characters, marine biology and causes and prevention of pollution to their bodies.</li> </ul>
<b>DSE IB</b> <b>ZOOL 302 (A)</b> <b>TH</b>	<b>Insect, Vector and Diseases</b>	<b>Insect, Vector and Diseases</b> <ul style="list-style-type: none"> <li>General features and morphology of</li> </ul>

<b>ZOOL 302 (A) PR</b>  OR	OR	insects <ul style="list-style-type: none"> <li>• Brief introduction of carrier of vectors</li> <li>• Classification of insects upto orders</li> <li>• Insect vectors causing diseases</li> <li>• Fleas and flea borne diseases</li> </ul>
<b>DSE IB ZOOL 302 (B) TH ZOOL 302 (B) PR</b>  OR	<b>Immunology</b>  OR	<b>Immunology</b> <ul style="list-style-type: none"> <li>• Basic concepts of immunology</li> <li>• Components of immune system</li> <li>• Haemopoiesis</li> <li>• Antigens and antibodies</li> <li>• Working of immune system</li> <li>• Immune system in health and diseases</li> <li>• Vaccines</li> </ul>
<b>DSE IB ZOOL 302 (C) TH ZOOL 302 (C) PR</b>	<b>Reproductive Biology</b>	<b>Reproductive Biology</b> <ul style="list-style-type: none"> <li>• Male and female reproductive organs</li> <li>• General hormones (male &amp; female) and their working</li> <li>• Functional anatomy of male reproductive system of human &amp; rat and function of different parts</li> <li>• Infertility in male &amp; female</li> <li>• Various assisted reproductive technology</li> <li>• Modern contraceptive technologies.</li> <li>• Morphology and anatomy of male &amp; female reproductive organs with their functional aspects</li> <li>• Gonadal hormones associated with reproduction in male &amp; female.</li> </ul>
<b>SEC-III ZOOL 303TH</b>	<b>Sericulture</b>	<b>Sericulture</b> <ul style="list-style-type: none"> <li>• Definition, history, present status and silk route, types of silkworm</li> <li>• Life cycle of <i>Bombyx mori</i></li> <li>• Rearing of silkworm</li> <li>• Pest and diseases of silkworm and their control and prevention</li> <li>• Entrepreneurship in sericulture</li> </ul>
<b>SEC-IV ZOOL 304(A) TH</b>	<b>Aquarium Fish Keeping</b>	<b>Aquarium Fish Keeping</b> <ul style="list-style-type: none"> <li>• Scope of Aquarium fish industry as a cottage industry</li> <li>• Common characters of freshwater and marine fish cultures in aquarium</li> <li>• Composition of fish food</li> </ul>

OR	OR	<ul style="list-style-type: none"> <li>• Fish handling during transportation</li> <li>• Maintenance of aquarium</li> <li>• General characters of fish</li> <li>• Preparation of fish aquarium</li> <li>• Maintenance of fish aquarium</li> <li>• Knowledge of fish cottage industry</li> </ul>
SEC-IV ZOOLOGY 304(B) TH	<b>Research Methodology</b>	<b>Research Methodology</b> <ul style="list-style-type: none"> <li>• Knowledge of various foundations of research</li> <li>• How to design research and need</li> <li>• How to collect</li> <li>• Thesis writing along with preparation of tables</li> <li>• Various ethical issues related to research.</li> </ul>



## B.Sc. Physics

<b>Department of Physics</b>	After successful completion of three-year degree program in physics a student should be able to;
<b>Programme Outcomes (PO)</b>	<p>PO-1. Demonstrate, solve and an understanding of major concepts in all disciplines of physics.</p> <p>PO-2. Solve the problem and also think methodically, independently and draw a logical conclusion.</p> <p>PO-3. Employ critical thinking and the scientific knowledge to design, carry out, record and analyze the results of Physics experiments.</p> <p>PO-4. Create an awareness of the impact of Physics on the society, and development outside the scientific community.</p> <p>PO-5. To inculcate the scientific temperament in the students and outside the scientific community.</p> <p>PO-6. Use modern techniques, decent equipment and software.</p>
<b>Programme Specific Outcomes (PSO)</b>	<p>PSO-1. Gain the knowledge of Physics through theory and practical.</p> <p>PSO-2. Understand good laboratory practices and safety.</p> <p>PSO-3. Develop research-oriented skills.</p> <p>PSO-4. Make aware and handle the sophisticated instruments/equipment.</p>
<b>Course Outcomes (CO) B. Sc. Physics <u>First Year</u></b>	
<b>Course</b>	<b>Outcomes</b>
	After completion of these courses students should be able to;
<b>PHYS101: Mechanics Theory</b>	<p>CO-1. Know the Coordinate systems and motion of a particle.</p> <p>CO-2. To understand the Space Time Symmetry and Conservation Laws</p> <p>CO-3. Discuss the Gravitation and Inverse Square Force Law.</p> <p>CO-4. Rotational Motion and Kinematics of Elastic and Inelastic Collisions</p> <p>CO-5. Study the Special Theory of Relativity.</p>
<b>PHYS102: Electricity, Magnetism and EMT Theory</b>	<p>CO-1. To understand the Vector Analysis.</p> <p>CO-2. To understand the Electric Current and Fields of Moving charges.</p> <p>CO-3. Know the fundamental principles of Magnetism.</p> <p>CO-4. To study Electrostatic Fields in Dielectrics.</p> <p>CO-5. To understand Magnetic Fields in Matter.</p>

**Second Year**

<b>PHYS201: Statistical and Thermal Physics Theory</b>	CO-1. Understand Basic Ideas of Statistical Physics. CO-2. Gain the knowledge of Distribution of Particles in Compartments. CO-3. To study different types of Statistics in Physics. CO-4. To know Entropy and Laws of Thermodynamics. CO-5. Understand Maxwell's Thermodynamic Relations and Their Applications. CO-6. To study applications of thermodynamics relations.
<b>PHYS202: Waves and Optics Theory</b>	CO-1. To know the Simple harmonic motion. CO-2. To understand The Forced Oscillator and coupled oscillators. CO-3. To study the Wave Optics. CO-4. To study the diffraction and polarization.
<b>PHYS203(SEC): Physics Workshop Skill Theory</b>	CO-1. To learn Measuring units and their conversion to SI and CGS. CO-2. To understand the Concept of workshop practice. CO-3. Understand the concept of Electrical and Electronic Skill. CO-4. Study the gear system, wheel, Fixing of gears with motor axel, Lever mechanism.
<b>PHYS205(SEC): Electrical Circuits and Network Skills</b>	CO-1. To understand Basic Electricity Principles. CO-2. Understanding Electrical Circuits. CO-3. To learn Electrical Drawing and Symbols. CO-4. To study Generators and Transformers, Electric Motors. CO-5. To understand the concept of Electrical Wiring.

### Third Year

<b>PHYS305:</b> <b>Quantum Mechanics</b>	CO-1. Understand the Time dependent Schrodinger equation. CO-2. Know the bound states in an arbitrary potential. CO-3 To understand Quantum theory of hydrogen-like atoms. CO-4. To study Atoms in Electric and Magnetic Fields. CO-5. Learn the behavior of Atoms in External Magnetic Fields.
<b>PHYS307(SEC):</b> <b>Radiation Safety</b>	CO-1. Understand the Basics of Atomic and Nuclear Physics. CO-2. To learn Interaction of Radiation with matter: Types of Radiation. CO-3. To study Radiation detection and monitoring devices. CO-4. Get knowledge of Radiation safety management. CO-5. Understand Application of nuclear techniques.
<b>PHYS310:</b> <b>Renewable Energy and Energy Harvesting</b>	CO-1. To study Fossil fuels and Alternate Sources of energy. CO-2. To study Solar energy and its importance. CO-3. Know the Wind Energy harvesting, Ocean energy. CO-4. Understand the harvesting of Geothermal Energy and hydro energy. CO-5. To study Piezoelectric Energy harvesting and electromagnetic energy.

## B.Sc. MATHEMATICS

### Programme Outcomes

- Apply the knowledge of mathematics for the solution of complex problems.
- Equip the students with skill to analyse and solve the problems.
- Imbibe effective scientific and technical communication in both oral and writing.
- Create awareness to become an enlightened citizen with commitment to deliver one's responsibilities
- Continue to acquire relevant knowledge and skill appropriate to professional activities.
- *Provide a base to pursue higher education i.e. Master's Degree and research further.*
- It gives an opportunity to students to go for the banking, administration and other fields.

### Programme Specific Outcomes

- Understanding of the fundamental axioms of mathematics and capability of developing ideas based on them.
- Nurture problem solving skills, thinking, and creativity through assignments.
- Empowering the students to pursue higher degree at reputed academic institutions.
- Motivate the students to prepare for competitive examination.

### Courses Outcomes

Course Code	Title of Course	Courses Outcomes
MATH101TH	DIFFERENTIAL CALCULUS	<ul style="list-style-type: none"><li>• Students will able to understand the concept of limit, continuity, differentiation and successive differentiation.</li><li>• Learn the proof and geometrical interpretation of general theorems.</li><li>• Learn about concavity,convexity and asymptotes of the curves.</li><li>• Understand the concept of limit and continuity of function of several variables.</li><li>• Learn the conversion of Cartesian coordinate to polar co-ordinates and vice-versa.</li><li>• Study the Euler's theorem, proof and its applications.</li><li>• Understand the concept of Jacobian.</li></ul>

MATH102TH	DIFFERENTIAL EQUATIONS	<ul style="list-style-type: none"> <li>• Understand the concept of differential equations, classification of differential equations.</li> <li>• Recognize and solve homogeneous and non homogeneous differential equations by using different methods.</li> <li>• Learn the methods of variation of parameters and reduction of order.</li> <li>• Learn to determine linear dependence and independence of function.</li> <li>• Learn the concepts of total differential equations.</li> <li>• Learn the formation of partial differential equation and solve partial differential equation using Lagrange's and Charpit's method.</li> <li>• Will able to classify second order partial differential equations.</li> </ul>
MATH201TH	REAL ANALYSIS	<ul style="list-style-type: none"> <li>• Construct mathematical proofs of basic results in real analysis.</li> <li>• Learn sequence and series of real numbers and their convergence and uniform convergence.</li> <li>• Use comparison test, condensation test, D'Alembert ratio test, Cauchy's root and Leibnitz's test for convergence of series.</li> <li>• Comprehend bounded sets, Archimedes properties and Bolzano-Weierstrass theorem.</li> <li>• Produce proofs of results of real analysis.</li> </ul>
MATH309TH	INTEGRAL CALCULUS	<ul style="list-style-type: none"> <li>• Establish various Reduction formulae.</li> <li>• Learn to find area and length of curves.</li> <li>• Integration by partial fractions and properties of definite integrals.</li> <li>• Evaluation of double and triple integrals</li> </ul>

MATH202TH	ALGEBRA	<ul style="list-style-type: none"> <li>• Learn the concept of group, subgroup, and normal subgroup and Quotient groups.</li> <li>• Use the concept of homomorphism, isomorphism and endomorphism of groups .</li> <li>• Cyclic group, permutation group, polynomial ring, polynomial rings and quotient rings.</li> </ul>
MATH310TH	VECTOR CALCULUS	<ul style="list-style-type: none"> <li>• Learn the concept of scalar and vector product.</li> <li>• Study differentiation and partial differentiation of vectors.</li> <li>• Learn the concept of divergence, curl and gradient of vectors.</li> </ul>
MATH301TH	MATRICES	<ul style="list-style-type: none"> <li>• Learn the concept of matrices and solutions of the system of linear homogeneous and non-homogeneous equations with number of equations and unknown upto three.</li> <li>• Understand the concept of matrices from Geometry, Physics, and Chemistry.</li> <li>• Learn Definition of Vector space and understand the concept of Linear dependence/independence.</li> <li>• Learn about translation, Dilation, Rotation, Reflection in a point, line and plane.</li> </ul>

MATH313TH	PROBABILITY AND STATISTICS	<ul style="list-style-type: none"> <li>• Learn the concept of sample space, random variables, cumulative distribution function, probability mass and probability density function.</li> <li>• Concept of mathematics expectation, moments, moment generating function, characteristic function.</li> <li>• Different kind of distribution i.e. binomial, continuous, Poisson, uniform, exponential and normal distribution.</li> <li>• Learn about function of two random variables, conditional expectation and independent random variables.</li> </ul>
MATH304TH	NUMERICAL METHODS	<ul style="list-style-type: none"> <li>• Study to find the appropriate rules of solving non linear equations by different methods such as bisection, Secant and Newton Raphson's method.</li> <li>• Concept of interpolation and extrapolation.</li> <li>• To find the value of a definite integral from the set of tabulated values of the integrand by using trapezoidal and Simpsons rule.</li> </ul>
MATH317TH	TRANSPORTATION AND GAME THEORY	<ul style="list-style-type: none"> <li>• Learn mathematical formulation of transportation problem and solution using Northwest-corner method, least cost method and Vogel method.</li> <li>• Assignment method its mathematical formulation and Hungarian method for solving assignment.</li> <li>• Learn the concept of Game theory, formulation and solution of two people zero sum games, mixed strategies games and graphical solution procedure.</li> </ul>

## B.Sc. Physical Science (Physics, Computer Science and Mathematics)

### Program Outcome/ Program Specific Outcomes

- To expose the students to the basic concepts of Computer Science.
- To develop the programming skills in students.
- Basic knowledge in hardware/software methods and tools for solving real life and R&D problems with an orientation to lifelong learning.
- To prepare the students with hands-on practice.
- Familiarity with Data Base Management System and to understand the importance, purpose of it and creating awareness of new trends in database management system.
- To arm the students with the study of design, development and analysis of software used to solve problems.
- To make students aware the importance of open source softwares and their usage.

### Course Outcomes

S. N.	Course Name	Course Code	Course Type	Course Outcome
<b>First Year</b>				
1.	Problem Solving using Computers	COMP101	DSC	<ul style="list-style-type: none"><li>• Giving exposure to the students toward the basic concepts of computers and problem solving techniques by implementing these using Python programming language.</li></ul>
2.	Office Automation Tools	COMP102	DSC	<ul style="list-style-type: none"><li>• To familiarize the students with the office automation tools like Open Office, Libre Office and MS-Office.</li></ul>

3.	Mechanics Theory	PHYS101	DSC	<ul style="list-style-type: none"> <li>• Know the Coordinate systems and motion of a particle.</li> <li>• To understand the Space Time Symmetry and Conservation Laws</li> <li>• Discuss the Gravitation and Inverse Square Force Law.</li> <li>• Rotational Motion and Kinematics of Elastic and Inelastic Collisions</li> <li>• Study the Special Theory of Relativity.</li> </ul>
4.	Electricity, Magnetism and EMT Theory	PHYS102	DSC	<ul style="list-style-type: none"> <li>• To understand the Vector Analysis.</li> <li>• To understand the Electric Current and Fields of Moving charges.</li> <li>• Know the fundamental principles of Magnetism.</li> <li>• To study Electrostatic Fields in Dielectrics.</li> <li>• To understand Magnetic Fields in Matter.</li> </ul>
5.	DIFFERENTIAL CALCULUS	MATH101 TH	DSC	<ul style="list-style-type: none"> <li>• Students will able to understand the concept of limit, continuity, differentiation and successive differentiation.</li> <li>• Learn the proof and geometrical interpretation of general theorems.</li> <li>• Learn about concavity,convexity and asymptotes of the curves.</li> <li>• Understand the concept of limit and continuity of function of several variables.</li> <li>• Learn the conversion of Cartesian coordinate to polar co-ordinates and vice-versa.</li> <li>• Study the Euler's theorem, proof and its applications.</li> <li>• Understand the concept of Jacobian.</li> </ul>

6.	DIFFERENTIAL EQUATIONS	MATH102 TH	DSC	<ul style="list-style-type: none"> <li>• Understand the concept of differential equations, classification of differential equations.</li> <li>• Recognize and solve homogeneous and non homogeneous differential equations by using different methods.</li> <li>• Learn the methods of variation of parameters and reduction of order.</li> <li>• Learn to determine linear dependence and independence of function.</li> </ul>
<b>Second Year</b>				
7.	Computer System Architecture	COMP201	DSC	<ul style="list-style-type: none"> <li>• To introduce the students with the basic concepts of internal architecture of computer system.</li> </ul>
8.	Database Management System	COMP202	DSC	<ul style="list-style-type: none"> <li>• To introduce the students about the data, its management and implementation practically using MySQL or MS-Access.</li> </ul>
9.	Statistical and Thermal Physics Theory	PHYS201	DSC	<ul style="list-style-type: none"> <li>• Understand Basic Ideas of Statistical Physics.</li> <li>• Gain the knowledge of Distribution of Particles in Compartments.</li> <li>• To study different types of Statistics in Physics.</li> <li>• To know Entropy and Laws of Thermodynamics.</li> <li>• Understand Maxwell's Thermodynamic Relations and Their Applications.</li> <li>• To study applications of thermodynamics relations.</li> </ul>

10.	Waves and Optics Theory	PHYS202	DSC	<ul style="list-style-type: none"> <li>• To know the Simple harmonic motion.</li> <li>• To understand The Forced Oscillator and coupled oscillators.</li> <li>• To study the Wave Optics.</li> <li>• To study the diffraction and polarization.</li> </ul>
11.	REAL ANALYSIS	MATH 201TH	DSC	<ul style="list-style-type: none"> <li>• Construct mathematical proofs of basic results in real analysis.</li> <li>• Learn sequence and series of real numbers and their convergence and uniform convergence.</li> <li>• Use comparison test, condensation test, D'Alembert ratio test, Cauchy's root and Leibnitz's test for convergence of series.</li> <li>• Comprehend bounded sets, Archimedes properties and Bolzano-Weierstrass theorem.</li> <li>• Produce proofs of results of real analysis.</li> </ul>
12.	ALGEBRA	MATH 202TH	DSC	<ul style="list-style-type: none"> <li>• Learn the concept of group, subgroup, and normal subgroup and Quotient groups.</li> <li>• Use the concept of homomorphism, isomorphism and endomorphism of groups .</li> <li>• Cyclic group, permutation group, polynomial ring, polynomial rings and quotient rings.</li> </ul>

13.	Physics Workshop Skill Theory	PHYS203	SEC	<ul style="list-style-type: none"> <li>• To learn Measuring units and their conversion to SI and CGS.</li> <li>• To understand the Concept of workshop practice.</li> <li>• Understand the concept of Electrical and Electronic Skill.</li> <li>• Study the gear system, wheel, Fixing of gears with motor axel, Lever mechanism.</li> </ul>
14.	PHP Programming	COMP203	SEC	<ul style="list-style-type: none"> <li>• To make students aware about server side scripting language i.e. PHP.</li> </ul>
<b>Final Year</b>				
15.	Operating System	COMP301	DSE	<ul style="list-style-type: none"> <li>• Students will be able to understand the basic components of a computer system and the interactions between various components.</li> </ul>
16.	Data Structure and File Processing	COMP302	DSE	<ul style="list-style-type: none"> <li>• To introduce the students with fundamental concepts of data structures and to emphasize the importance of data structures in developing and implementing efficient algorithms.</li> </ul>

17.	Quantum Mechanics	PHYS305	DSE	<ul style="list-style-type: none"> <li>• Understand the Time dependent Schrodinger equation.</li> <li>• Know the bound states in an arbitrary potential.</li> <li>• To understand Quantum theory of hydrogen-like atoms.</li> <li>• To study Atoms in Electric and Magnetic Fields.</li> <li>• Learn the behavior of Atoms in External Magnetic Fields.</li> </ul>
18.	Renewable Energy and Energy Harvesting	PHYS310	DSE	<ul style="list-style-type: none"> <li>• To study Fossil fuels and Alternate Sources of energy.</li> <li>• To study Solar energy and its importance. CO-3. Know the Wind Energy harvesting, Ocean energy.</li> <li>• Understand the harvesting of Geothermal Energy and hydro energy.</li> <li>• To study Piezoelectric Energy harvesting and electromagnetic energy</li> </ul>
	MATRICES	MATH 301TH	DSE	<ul style="list-style-type: none"> <li>• Learn the concept of matrices and solutions of the system of linear homogeneous and non-homogeneous equations with number of equations and unknown upto three.</li> <li>• Understand the concept of matrices from Geometry, Physics, and Chemistry.</li> <li>• Learn Definition of Vector space and understand the concept of Linear dependence/independence.</li> <li>• Learn about translation, Dilation, Rotation, Reflection in a point, line and plane.</li> </ul>

	NUMERICAL METHODS	MATH 304TH	DSE	<ul style="list-style-type: none"> <li>• Study to find the appropriate rules of solving non linear equations by different methods such as bisection, Secant and Newton Raphson's method.</li> <li>• Concept of interpolation and extrapolation.</li> <li>• To find the value of a definite integral from the set of tabulated values of the integrand by using trapezoidal and Simpsons rule.</li> </ul>
	PROBABILITY AND STATISTICS	MATH 313TH	SEC	<ul style="list-style-type: none"> <li>• Learn the concept of sample space, random variables, cumulative distribution function, probability mass and probability density function.</li> <li>• Concept of mathematics expectation, moments, moment generating function, characteristic function.</li> <li>• Different kind of distribution i.e. binomial, continuous, Poisson, uniform, exponential and normal distribution.</li> <li>• Learn about function of two random variables, conditional expectation and independent random variables.</li> </ul>
8	Software Engineering	COMP303	SEC	<ul style="list-style-type: none"> <li>• To give the students the basic knowledge of the analysis and design of complex systems</li> </ul>

## COMMERCE DEPARTMENT

### **B.Com (pass) three year annual CBCS program**

#### **Program outcome**

The B.Com (Pass Course) provides outcome in terms of the following broad aspects:

1. It attempt to provide basic and dynamic knowledge about commerce and management to commerce graduate.
2. It familiarizes the students with basics of financial management, marketing management and HRM and changing scenario thereof.
3. It familiarizes students with basic issues, challenges and problems of Indian economy.
4. It groom commerce graduate to opt professional courses i.e. MBA, CA, ICWA, Banking, Insurance, Marketing, HRM etc.
5. It develops necessary skills and competencies among students to start their own business.
6. The program contents prepare students to pursue higher education in commerce stream.

#### **Course outcome**

Year	Course No.	Course type	Course title	Course outcome
First Year	--	Ability enhancement compulsory course (AECC-1)	Environmental studies	<ul style="list-style-type: none"><li>• To make students sensitive about different issues of environment</li></ul>
	BC 1.1	Core course (C-1)	Financial accounting	<ul style="list-style-type: none"><li>• The objective of this paper is to help students to acquire conceptual knowledge of the financial accounting and</li><li>• To impart skills for recording various kinds of business transactions.</li></ul>
	BC 1.2	Core course (C-2)	Business organization and management	<ul style="list-style-type: none"><li>• The course aims to provide basic knowledge to the students about the organization and management of a business enterprise</li></ul>
	--	Core course (C-3)	English-1	<ul style="list-style-type: none"><li>• T acquaint students basics in English language</li></ul>
	--	Ability	English	

		enhancement compulsory course (AECC-2)		
	BC 1.3	Core course (C-4)	Business law	<ul style="list-style-type: none"> <li>The objective of the course is to impart basic knowledge of the important business legislation along with relevant case law.</li> </ul>
	BC 1.4	Core course (C-5)	Business statistics and mathematics	<ul style="list-style-type: none"> <li>The objective of this course is to familiarize students with the applications of statistical techniques and mathematics in business decision-making.</li> </ul>
		Core course (C-6)	Hindi	<ul style="list-style-type: none"> <li>To acquaint students basics in Hindi language</li> </ul>
Second Year	BC 2.1	Core course (C-7)	Company law	<ul style="list-style-type: none"> <li>The objective of the course is to impart basic knowledge of the provisions of the Companies Act 2013.</li> <li>Case studies involving issues in company law are required to be discussed.</li> </ul>
	BC 2.2	Core course (C-8)	Income tax law and practice	<ul style="list-style-type: none"> <li>To provide basic knowledge and equip students with application of principles and provisions of Income-tax Act, 1961 and the relevant Rules.</li> </ul>
	--	Core course (C-9)	English-11	<ul style="list-style-type: none"> <li>To strengthen communication skill of the students in English language</li> </ul>
	BC 2.3	Skill enhancement elective course (SEC-1)	Computer applications in business	<ul style="list-style-type: none"> <li>The objective of this paper is to provide computer skills and knowledge for commerce students and</li> <li>To enhance the student Understands of usefulness of information technology tools for business operations.</li> </ul>
	Hind 400	Core course (C-10)	Hindi-II	<ul style="list-style-type: none"> <li>To strengthen communication skill of</li> </ul>

				the students in Hindi language
	BC 2.4	Core course (C-11)	Corporate accounting	<ul style="list-style-type: none"> <li>The objective of this paper is to enable the students to acquire the basic knowledge of the corporate accounting and</li> <li>to learn the techniques of preparing the financial statements</li> </ul>
	BC 2.5	Core course (C-12)	Cost accounting	<ul style="list-style-type: none"> <li>The objective of this paper is to acquaint the students with basic concepts used in cost accounting, various methods involved in cost ascertainment and cost accounting bookkeeping systems.</li> </ul>
	BC 2.6	Skill enhancement elective course (SEC-2)	E-commerce	<ul style="list-style-type: none"> <li>The objective of this paper is to enable the student to become familiar with the mechanism for conducting business transactions through electronic means.</li> </ul>
Third Year	BC 3.1 (a)	Discipline specific elective (DSE-1)	HRM	<ul style="list-style-type: none"> <li>The course aims to acquaint students with the techniques and principles to manage human resource of an organisation.</li> </ul>
	BC 3.1 (b)	Discipline specific elective (DSE-1)	Principles of marketing	<ul style="list-style-type: none"> <li>The course aims to acquaint students with basic knowledge of concepts, principles, tools and techniques of marketing.</li> </ul>
	BC 3.1(c)	Discipline specific elective (DSE-1)	FUNDAMENTALS OF FINANCIAL MANAGEMENT	<ul style="list-style-type: none"> <li>The course aims to familiarize the students with the principles and practices of financial management.</li> </ul>
	BC 3.2 (a)	Discipline specific elective (DSE-2)	Corporate governance and auditing	<ul style="list-style-type: none"> <li>The course aims to provide knowledge of auditing principles, procedures and techniques in accordance with current legal requirements and</li> </ul>

			<p>professional standards and</p> <ul style="list-style-type: none"> <li>to give an overview of the principles of Corporate Governance and Corporate Social Responsibility.</li> </ul>
BC 3.2(b):	Discipline specific elective (DSE-2)	GST	<ul style="list-style-type: none"> <li>The course aims to provide basic knowledge and equip students with application of principles and provisions of GST.</li> </ul>
BC 3.3	Skill enhancement elective course (SEC-3)	Entrepreneurship	<ul style="list-style-type: none"> <li>The course aims to orient the learner toward entrepreneurship as a career option and creative thinking and behavior</li> </ul>
ECONA313	Generic elective (GE-1)	Economy of Himachal Pradesh	<ul style="list-style-type: none"> <li>This course highlights the basic features, characteristics and developmental issues of the Himachal Pradesh economy</li> </ul>
BC 3.5(a)	Discipline specific elective (DSE-3)	CORPORATE TAX PLANNING	<ul style="list-style-type: none"> <li>The course aims to provide Basic knowledge of corporate tax planning and its impact on decision-making.</li> </ul>
BC 3.5(b)	Discipline specific elective (DSE-3)	BANKING AND INSURANCE	<ul style="list-style-type: none"> <li>The course aims to impart knowledge about the basic principles of the banking and insurance. Contents</li> </ul>
BC 3.5 (c)	Discipline specific elective (DSE-3)	Management accounting	<ul style="list-style-type: none"> <li>The course aims to impart the students, knowledge about the use of financial, cost and other data for the purpose of managerial planning, control and decision making.</li> </ul>
BC 3.5(d)	Discipline specific elective (DSE-3)	COMPUTERISED ACCOUNTING SYSTEM	<ul style="list-style-type: none"> <li>The course aims to enhance the skills needed for computerized accounting system and to enable the students to develop simple accounting applications.</li> </ul>
3.6(a)	Discipline specific elective (DSE-4)	INTERNATIONAL BUSINESS	<ul style="list-style-type: none"> <li>The objective of the course is to familiarize the students with the concepts, importance and dynamics of international</li> </ul>

			<p>business and India's involvement with global business.</p> <ul style="list-style-type: none"> <li>The course also seeks to provide theoretical foundations of international business to the extent these are relevant to the global business operations and developments.</li> </ul>
BC 3.6 (b)	Discipline specific elective (DSE-4)	Office management and secretarial practice	<ul style="list-style-type: none"> <li>The purpose of this course is to familiarize the students with the activities in a modern office.</li> <li>Smooth functioning of any organization depends upon the way various activities are organized, facilities provided to the staff working in the office, the working environment and the tools and equipments used in office.</li> </ul>
BC 3.6 (c)	Discipline specific elective (DSE-4)	FUNDAMENTALS OF INVESTMENT	<ul style="list-style-type: none"> <li>The purpose of this course is to familiarize the students with different investment alternatives, introduce them to the framework of their analysis and valuation and highlight the role of investor protection.</li> </ul>
BC 3.6 (d)	Discipline specific elective (DSE-4)	CONSUMER PROTECTION	<ul style="list-style-type: none"> <li>This paper seeks to familiarize the students with of their rights as a consumer, the social framework of consumer rights and legal framework of protecting consumer rights.</li> <li>It also provides an understanding of the procedure of redress of consumer complaints, and the role of different agencies in establishing product and service standards. The student should be able to</li> </ul>

				comprehend the business firms' interface with consumers and the consumer related regulatory and business environment.
BC 3.7	Skill enhancement elective course (SEC-4)	Personal selling and salesmanship		<ul style="list-style-type: none"> <li>• The purpose of this course is to familiarize the students with the fundamentals of personal selling and the selling process.</li> <li>• They will be able to understand selling as a career and what it takes to be a successful salesman.</li> </ul>
ECONA314	Generic elective (GE-2)	Indian economy		<ul style="list-style-type: none"> <li>• This course is designed to enable students to have in-depth knowledge of various problems and issues faced by Indian Economy.</li> <li>• The course will concentrate on both the achievements and the issues of the economy</li> </ul>

## M.Com

### Program outcome

The M.Com course provides outcome in terms of the following broad aspects:

1. It attempt to provide advance and dynamic knowledge to post graduate students in the field commerce and management.
2. It familiarizes the students about applications of HRM, Marketing management and financial management in real business world.
3. It develops necessary skills and competencies among students to go for M.Phil and Ph.D
4. It gives an exposure to the students about statistical analysis and research methodology, which further helps students to take logical decisions.
5. It provides an opportunity to students to acquire practical knowledge by completing project work under the guidance of commerce faculty.

### Course outcome

Semester	Course Code	Course title	Course outcome
First	MC 1.1	Management & Organizational Behaviour	<ul style="list-style-type: none"><li>• To provide detailed theoretical knowledge about different theories of management and economics and their applications thereof.</li><li>• understand changing business and taxation environment and its effect on business decision making</li><li>• Use of statistical techniques in decision making</li></ul>
	MC 1.2	Business Environment	
	MC 1.3	Managerial Economics	
	MC 1.4	Statistical Analysis for Decision Making	
	MC 1.5	Taxation Practices and Administration	
Second	MC 2.1	Corporate Financial Accounting	<ul style="list-style-type: none"><li>• to learn about the applications of financial, marketing and HR Management in real business world</li><li>• learn about accounting procedures about specific issues in companies</li><li>• to provide knowledge about different financial institutions and markets in India</li></ul>
	MC 2.2	Financial Management	
	MC 2.3	Human Resource Management	
	MC 2.4	Marketing Management	
	MC 2.5	Financial Institution and Markets	
Third	MC 3.1	Computer Application in Business	<ul style="list-style-type: none"><li>• To make students proficient in applications of computer in business</li><li>• to acquaint the students with advance concepts used in cost accounting, latest provisions of company law and importance of strategic management.</li><li>• to acquaint the students with basic concepts of sampling, testing of</li></ul>
	MC 3.2	Advanced Cost Accounting	
	MC 3.3	Corporate Legal Framework	
	MC 3.4	Strategic Management	
	MC 3.5	Research Methodology	

			hypothesis and report writing
<b>Fourth</b>	<b>MC 4.1</b>	Advanced Financial Management	<ul style="list-style-type: none"> <li>• to acquaint the students about advance developments in the field financial management</li> <li>• different techniques of management accounting</li> <li>• Planning, implementation and control of projects</li> <li>• Practical exposure to conduct research work and writing project report.</li> </ul>
	<b>MC 4.2</b>	Security Analysis and Portfolio Management	
	<b>MC 4.3</b>	Project Planning and Control	
	<b>MC 4.4</b>	Accounting for Managerial Decision	
	<b>MC 4.5</b>	E-Commerce	
	<b>MC 4.6</b>	Project Report and Viva-voce	



Anna University

2021

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## BA (Geography)

### **Program Outcomes/Program Specific Outcomes:**

Geography with its multidisciplinary approach has been structured by keeping in mind the specific educational and professional goals of the students. By the end of the first year of the programme, the students will be able to understand the general concepts of physical geography and cartography. After the completion of second year students can easily differentiate between the two main branches of geography i.e. physical geography and human geography. Along with this students will be having the basic knowledge of human environment relationship, regional planning and remote sensing. At the end of the third year or after completing the course, the students will be having the essential understanding of Indian geography, disaster management, GIS and field work which amply prepared them for professional careers in geography and allied disciplines like GIS and remote sensing.

### **Course Outcomes**

S.No.	Course Name & Course Code	Course Type	Course Outcome
<b>First Year</b>			
1.	Physical Geography (GEOGP101CC)	DSC-1	Course will enable the students to understand: <ul style="list-style-type: none"><li>• Definition and scope of physical geography</li><li>• Solar system, tidal theory and big bang theory of earth's origin</li><li>• Rocks classification and their characteristics</li><li>• Internal structure of earth, theory of plate tectonics</li><li>• Weathering and its types</li><li>• Fluvial cycle of erosion</li><li>• Structure and composition of atmosphere, heat balance, pressure and wind systems</li><li>• Tropical cyclones, monsoon, koppen's climatic classification</li><li>• Hydrological cycle, bottom relief features of Pacific Ocean, tides and currents.</li></ul>
2.	General Cartography (GEOGP102 CC)	DSC-2	Course will enable the students to understand: <ul style="list-style-type: none"><li>• Map: its definition, classification and significance</li><li>• Scale: its definition, importance and types</li><li>• Map projections</li><li>• Data representation methods like line graph, bar diagrams, Isopleth, Choropleth, Dot method, Climograph and Hythergraph</li></ul>
<b>Second Year</b>			

3.	Human Geography (GEOGP201CC)	DSC-1	<p>Course will enable the students to understand:</p> <ul style="list-style-type: none"> <li>• Contemporary relevance of human geography and its major sub-fields</li> <li>• World distribution of population, density and growth</li> <li>• Demographic transition theory</li> <li>• Classification and world distribution of human races, major religions and major languages</li> <li>• Types and patterns of rural and urban settlements</li> <li>• Trends and patterns of world urbanization</li> </ul>
4.	Environmental Geography (GEOGP202CC)	DSC-2	<p>Course will enable the students to understand:</p> <ul style="list-style-type: none"> <li>• Definition and scope of environmental geography</li> <li>• Meaning and components of environment</li> <li>• Concept, components and functions of ecosystem</li> <li>• Human-environment relationship</li> <li>• Biomes of mountain and desert regions</li> <li>• Environmental problems and biodiversity loss</li> <li>• Environmental management initiatives like environmental protection act, 1982, environmental policy of India (2006) and chipko movement</li> </ul>
5.	Regional Planning and Development (GEOGP203SEC)	SEC	<p>Course will enable the students to understand:</p> <ul style="list-style-type: none"> <li>• Definition and characteristics of regional planning</li> <li>• Concept of regionalization</li> <li>• Growth pole theory and core periphery model</li> <li>• Regional development initiatives like integrated tribal development programme (itdp) and damodar valley corporation(dvc)</li> </ul>
6.	Remote Sensing and GPS (GEOGP204SEC)	SEC	<p>Course will enable the students to understand:</p> <ul style="list-style-type: none"> <li>• Remote sensing</li> <li>• Aerial photography</li> <li>• Satellite remote sensing</li> <li>• Bases of visual interpretation of remote sensing images</li> <li>• Global positioning system (gps)</li> </ul>
<b>Third Year</b>			
7.	Geography of India (GEOGP303- 1DSE)	DSE-1 Option -1	<p>Course will enable the students to understand:</p> <ul style="list-style-type: none"> <li>• Location and major physiographic region of</li> </ul>

			<p>India</p> <ul style="list-style-type: none"> <li>• Climate and soils of India</li> <li>• Population size, distribution, density and growth since 1901</li> <li>• Literacy, sex ratio</li> <li>• Rural and urban settlement types and patterns</li> <li>• Power and mineral resources of India</li> <li>• Agriculture and industries of India</li> </ul>
8.	Economic Geography (GEOGP303- 2DSE)	DSE-1 Option -2	<p>Course will enable the students to understand:</p> <ul style="list-style-type: none"> <li>• Approaches and fundamental concepts of economic geography</li> <li>• Agriculture locational theory of Von Thunen</li> <li>• Industrial location theory of Weber</li> <li>• Economic activities such as primary, secondary, tertiary and quaternary</li> <li>• Major industrial regions of eastern north American region and western European region</li> <li>• Major oceanic routes of Atlantic, Pacific and Indian ocean</li> <li>• Concept of international trade</li> </ul>
9.	Disaster Management (GEOGP304- 1DSE)	DSE-2 Option -1	<p>Course will enable the students to understand:</p> <ul style="list-style-type: none"> <li>• Hazards, risk, vulnerability and disasters</li> <li>• Natural disasters such as landslide, earthquake, and cyclone</li> <li>• Human induced disasters such as forest fire and road accidents</li> <li>• Disaster management phases like mitigation, preparedness, response and recovery</li> <li>• Community based disaster management</li> <li>• NDMA and NIDM</li> <li>• do's and don'ts during disasters</li> </ul>
10.	Geography of Tourism (GEOGP304- 2DSE)	DSE-2 Option -2	<p>Course will enable the students to understand:</p> <ul style="list-style-type: none"> <li>• Types of tourism</li> <li>• Impact of tourism on environment and society</li> <li>• Tourism Infrastructure</li> </ul>
11.	Geographic Information System (Practical) (GEOGP301SEC)	SEC	<p>Course will enable the students to understand:</p> <ul style="list-style-type: none"> <li>• Geographic information system (GIS)</li> <li>• GIS data types and data structures</li> <li>• Concept of geo-referencing and spatial referencing system</li> <li>• Editing and attribute data integration</li> <li>• GIS based exercises on geo-referencing, sub-setting, extraction of land use/land cover</li> </ul>

			and thematic mapping
<b>12.</b>	Field Techniques and Survey based Project Report (Practical) (GEOGP302SEC)	SEC	<p>Course will enable the students to understand:</p> <ul style="list-style-type: none"> <li>• Importance of field work in geographical studies</li> <li>• Role, value and ethics of field-work</li> <li>• Various field techniques and their merits and demerits</li> <li>• Questionnaires (open/ closed / structured / non-structured)</li> <li>• Interview with special focus on focused group and space survey</li> <li>• Designing and writing the field report</li> </ul>
<b>13.</b>	Disaster Risk Reduction (GEOGP305- GE1)	GE-1	<p>Course will enable the students to understand:</p> <ul style="list-style-type: none"> <li>• Hazards, risk, vulnerability and disasters</li> <li>• Natural disasters such as landslide, earthquake, and cyclone</li> <li>• Human induced disasters such as forest fire and road accidents</li> <li>• Disaster management phases like mitigation, preparedness, response and recovery</li> <li>• Community based disaster management</li> <li>• NDMA and NIDM</li> </ul> <p>do's and don'ts during disasters</p>
<b>14.</b>	GE-2 Sustainability and Development	GE-2	<p>Course will enable the students to understand:</p> <ul style="list-style-type: none"> <li>• Sustainable development need and its realization in Indian context</li> <li>• The millennium development goals</li> <li>• National strategies and international experiences</li> <li>• Inclusive development</li> <li>• Role of higher education in achieving sustainability</li> <li>• Policies and global cooperation for climate change</li> <li>• Sustainable development policies and programmes</li> <li>• Financing for sustainable development</li> <li>• National environmental Policy</li> </ul>

## संस्कृत विभाग

देश के गौरव की भाषा संस्कृत। भारतवर्ष की पहचान विश्व में संस्कृत भाषा से ही होती आई है। भारतवर्ष की इसी भाषा ने विश्व को ज्ञान से सराबोर किया है। इस बात में कोई संदेह नहीं है कि संस्कृत भाषा में जो ज्ञान है वह शायद ही विश्व की किसी अन्य भाषा या साहित्य में उपलब्ध हो। जब हम संपूर्ण साहित्य का अध्ययन वैश्विक स्तर पर करते हैं तो पाते हैं कि संस्कृत भाषा में ना केवल भौतिक संसार अपितु पारलौकिक संसार के विषय में भी अनुपम उपलब्धियां प्राप्त की है चाहे वह मोक्ष का प्रश्न है चाहे ब्रह्मांड या फिर जीवन यात्रा। इन सभी प्रश्नों के उत्तर संस्कृत साहित्य में विस्तृत रूप में उपलब्ध है।

वर्तमान परिप्रेक्ष्य में जब संपूर्ण विश्व वैश्विक संकट से जूझ रहा है तब क्या कोई ऐसा हल है जो इस विश्व को शांति सुख और समृद्धि के मार्ग पर अग्रसर करने में सहायक हो। इसके उत्तर में मुझे लगता है कि संस्कृत साहित्य में उपलब्ध जो ज्ञान श्रृंखला है चाहे उपनिषद् श्रीमद्भगवद्गीता पतंजलि का योग सूत्र और विभिन्न महाकाव्य जिनमें अंतर्यात्रा से लेकर जीवन पर्यंत और उसके पश्चात के विषय में भी विस्तृत ज्ञान उपलब्ध है निश्चित तौर पर ना केवल मानव अपितु संपूर्ण प्राणियों के जीवन के लिए लाभप्रद है।

### **पाठ्यक्रम के उद्देश्य**

स्नातक कक्षाओं में संस्कृत के जिन विषयों को सम्मिलित किया गया है निसंदेह वे विषय जब विद्यार्थी अपनी स्नातक की परीक्षा उत्तीर्ण कर लेगा उसके पश्चात आजीवन उनके जीवन के लिए अत्यंत लाभकारी सिद्ध होंगे। संस्कृत साहित्य की कोई भी विधा ऐसी नहीं है जो ज्ञान मनोरंजन और जानकारी से भरपूर ना हो। संस्कृत साहित्य में वैदिक साहित्य स्वयं में ज्ञान का अपार भंडार है, वहीं दूसरी ओर रामायण, महाभारत ज्ञान के साथ-साथ सामाजिकता, मानव व्यवहार तथा कर्तव्य परायणता का एक खूबसूरत उदाहरण है। मनोरंजन के दृष्टिकोण से ज्ञान के साथ-साथ प्रेरक कहानियां भी हितोपदेश, पंचतंत्र, बेताल पच्चीसी, सिंहासनबत्तीसी में उपलब्ध है। और भी बहुत ऐसे ग्रंथ हैं जो नैतिक मूल्यों मानवीय गुणों तथा धर्म तथा कर्म के मार्ग को कैसे प्रशस्त किया जाए के बारे में उपलब्ध है। मात्र एक ग्रंथ जिसमें मनुष्यों के जीवन के जन्म से पहले, जन्म के बाद के रहस्यों कष्टों, दुखों का निवारण एक साथ मिलता है वह श्रीमद्भगवद्गीता ग्रंथ संस्कृत साहित्य ही नहीं बल्कि संपूर्ण मानवजाति के लिए मोक्षप्रदायिनी संजीवनी के रूप में युगों युगों से कार्य कर रही है।

मेरे मत से स्नातक कक्षा में विद्यार्थियों को निश्चित तौर पर DSC 1 या DSC II में संस्कृत विषय को अवश्य चुनना चाहिए। इस विषय के चयन से न केवल आपको रोजगार के अवसर सृजित होंगे अपितु मानवीय गुणों के विकास में भी अभिवृद्धि होगी।

## संस्कृत विषय में पढ़ने वाले विद्यार्थियों के लिए कैरियर के अवसर:

1. यदि कोई विद्यार्थी संस्कृत विषय को स्नातक में DSC -1 या DSC-2 में मुख्य विषय के रूप में चुनता है और उसके पश्चात b.Ed करता है तो वह विद्यार्थी केंद्रीय विद्यालयों में टीजीटी संस्कृत के पद हेतु आवेदन कर सकता है।
2. B.Ed करने के बाद यदि कोई विद्यार्थी संस्कृत में स्नातकोत्तर की डिग्री प्राप्त होता है तो पीजीटी संस्कृत के लिए अपनी योग्यता पूर्ण करता है।
3. स्नातकोत्तर के बाद यदि विद्यार्थी नेट या सेट की परीक्षा पास करता है तो वह महाविद्यालय व विश्वविद्यालय में असिस्टेंट प्रोफेसर के पद हेतु आवेदन कर सकता है।
4. इसके अतिरिक्त भारत सरकार व राज्य सरकारों की विभिन्न विभागों में राजभाषा अधिकारी की नियुक्तियां की जाती है जिस विद्यार्थी ने संस्कृत विषय में स्नातकोत्तर डिग्री प्राप्त की है वह इस पद हेतु आवेदन कर सकता है। इस पद हेतु विद्यार्थी को कंप्यूटर का कोई सर्टिफिकेट कोर्स करना अनिवार्य होता है या अध्यापन अनुभव की आवश्यकता हो सकती है।
5. बैंकिंग क्षेत्र में सभी बैंकों में राजभाषा अधिकारी की नियुक्ति की जाती है इस पद हेतु भी संस्कृत स्नातकोत्तर डिग्री प्राप्त विद्यार्थी अध्यापन अनुभव या टाइपिंग टेस्ट या कंप्यूटर कोर्स की योग्यता के साथ आवेदन कर सकता है।
6. इसके अतिरिक्त राष्ट्रीय व अंतरराष्ट्रीय स्तर पर व भारत सरकार के कई विभागों में भाषा अनुवादक की आवश्यकता रहती है संस्कृत स्नातकोत्तर विद्यार्थी इस पद हेतु भी आवेदन कर सकता है।
7. भारतीय सुरक्षा बलों जिसमें आर्मी बीएसएफ आइटीबीपी सीआरपीएफ व अन्य सुरक्षा बल से संबंधित विभागों में रिलीजियस गुरु व पंडित के पदों को भरा जाता है इस पद हेतु संस्कृत विषय में स्नातकोत्तर विद्यार्थी आवेदन कर सकता है।
8. इसके साथ साथ संस्कृत विषय से स्नातक विद्यार्थी भारतीय प्रशासनिक सेवा तथा हिमाचल प्रदेश प्रशासनिक सेवाओं और राष्ट्रीय व राज्य स्तरीय विभिन्न प्रतियोगी परीक्षाओं के लिए आवेदन कर सकता है।

## विषय के उद्देश्य

क्रम संख्या	पाठ्यक्रम का नाम	विषय के उद्देश्य
<b>प्रथम वर्ष</b>		
1.	संस्कृत काव्य SKT-DSC-101	<p>संस्कृत काव्य के अंतर्गत कालिदास विरचित रघुवंश महाकाव्य प्रथम सर्ग का कुछ अंश वर्णित है जिसमें राजा दिलीप के उदार व्यक्तित्व और कर्मठता के विषय में वर्णन है दूसरी विषय वस्तु शिशुपाल वध जोकि महाकवि माघ की रचना है उसका कुछ अंश पाठ्यक्रम में है इसके अंतर्गत शिशुपाल वध से संबंधित वार्तालाप जो बलराम और श्री कृष्ण के मध्य है उसका कुछ अंश वर्णित है।</p> <p>इसी पाठ्यक्रम में भर्तृहरि विरचित नीति शतक जोकि भर्तृहरि के त्रयशतकों में से एक है। इसके अंतर्गत मानव व्यवहार, नीति, आचरण, धैर्य और गुरु के विषय में वर्णन है।</p> <p>संस्कृत काव्य के अंतर्गत संस्कृत काव्य का इतिहास जिसमें विभिन्न कवियों की रचनाएं व उनकी ऐतिहासिकता के विषय में वर्णन है।</p>
2.	संस्कृत गद्य काव्य SKT-DSC- 102	<p>संस्कृत गद्य काव्य के अंतर्गत शुकनासोपदेश शिवराज विजय और संस्कृत गद्य काव्य का सर्वेक्षण पाठ्यक्रम में वर्णित है। शुकनासोपदेश के अंतर्गत जोकि सुप्रसिद्ध रचना कादंबरी का एक अंश है जोकि महाकवि बाणभट्ट की रचना है में गुरु शुकनास चंद्रापीड को राज्य का कार्यभार संभालने से पहले राजधर्म मानवता मानवीय गुणों व्यवहार और नैतिकता के विषय में विस्तार से बताते हैं</p> <p>इसी के अंतर्गत दूसरे विषय में शिवराज विजय जोकि अंबिकादत्त व्यास जी की रचना है में प्रकृति और मानव के संबंधों के विषय में तथा अन्य कई विषयों पर कवि ने</p>

		वर्णन किया है। किसी पाठ्यक्रम में संस्कृत गद्य का सर्वेक्षण जोकि संस्कृत साहित्य का विशेष पक्ष है के विषय में विस्तृत रूप से वर्णन किया गया है।
3.	नीति साहित्य SKT DSC 103 (Compulsory)	प्रथम सत्र में (Compulsory) विषय में पाठ्यक्रम में नीति साहित्य है। जोकि सभी संकाय के विद्यार्थी चयनित कर सकते हैं। इसमें नीतिसाहित्य के अंतर्गत पंचतंत्र की कुछ प्रेरक कहानियां तथा भर्तृहरि विरचित नीतिशतक के कुछ श्लोक पाठ्यक्रम में वर्णित है, जिनमें मानवीय मूल्यों, नैतिक मूल्यों, सामाजिक मूल्यों तथा आचार, व्यवहार के विषय में वर्णन है। इसी के अंतर्गत अथर्ववेद के ब्रह्मचर्य सूक्त का भी वर्णन है। जिसके अंतर्गत विद्यार्थी जीवन व ब्रह्मचर्य के समय पालन किए वाले नियमों का वर्णन है।
4.	उपनिषद गीता तथा पाणिनीय शिक्षा DSC AECC 104	इस विषय के अंतर्गत उपनिषद गीता तथा पाणिनीय शिक्षा पाठ्यक्रम में है। जोकि सभी संकाय के विद्यार्थियों के लिए है। इसके अंतर्गत ईशावास्योपनिषद, गीता के द्वितीय अध्याय में अर्जुन का विषाद और श्री कृष्ण द्वारा अर्जुन के प्रश्नों का उत्तरों का वर्णन है। पाणिनीय शिक्षा के अंतर्गत वर्णों और व्याकरण के विषय में वर्णन किया गया है।
<b>द्वितीय वर्ष</b>		
5.	संस्कृत नाटक DSC SKT 201	स्नातक द्वितीय वर्ष में संस्कृत नाटक के अंतर्गत कर्णभारम संपूर्ण अभिज्ञान शाकुंतलम् नाटक का चतुर्थ अंक तथा संस्कृत नाटक का इतिहास तथा प्रमुख नाटकों का परिचय के अंतर्गत संस्कृत की सभी प्रसिद्ध नाटकों के विषय में वर्णन है। कर्णभारम नाटक के अंतर्गत कर्ण के व्यक्तित्व के वे सभी अंश जिनके कारण इतिहास में कर्ण का नाम सम्मानपूर्वक लिया जाता रहा है, इस नाटक

		<p>में वह सब विस्तार से वर्णित है। अभिज्ञान शाकुंतलम् का चतुर्थ अंक बहुत प्रसिद्ध अंक है, संस्कृत साहित्य में इस चतुर्थ अंक को विशेष ख्याति प्राप्त है। इस अंक में मानव हृदय के उन सभी पक्षों का विस्तार से वर्णन है जिनके साथ उसका संबंध अंतःकरण से होता है।</p>
6.	<p>संस्कृत व्याकरण SKT DSC 202</p>	<p>स्नातक द्वितीय वर्ष के दूसरे पाठ्यक्रम में संस्कृत व्याकरण के अंतर्गत लघुसिद्धांतकौमुदी में वर्णित संज्ञा प्रकरण, संधि, विभक्ति तथा स्त्री प्रत्यय पाठ्यक्रम में है। भाषा का मूल आधार व्याकरण है। इसके अंतर्गत व्याकरण की ऐतिहासिकता, नियमों, विभिन्न संज्ञाओं, संधियों तथा कारक प्रकरण प्रत्ययों के विषय में विद्यार्थियों को बताया जाएगा।</p>
7.	<p>व्याकरण एवं संयोजन SKT DSC 203</p>	<p>यह विषय उन विद्यार्थियों के लिए है जिन्होंने प्रथम वर्ष में (Compulsory) विषय संस्कृत (नीति साहित्य) पढ़ा है। इस विषय के अंतर्गत प्रत्याहार सूत्र, उच्चारण स्थान, समास, प्रत्यय तथा निबंध तथा अनुवाद पाठ्यक्रम में है। इस विषय में विद्यार्थियों को महेश्वर सूत्र, प्रत्यहार सूत्रों की संख्या, उच्चारण स्थान, समास प्रत्यय तथा निबंध तथा अनुवाद के विभिन्न नियमों के विषय में विस्तार से बताया जाएगा।</p>
8.	<p>आयुर्वेद के मूल सिद्धांत SKT AECC/SEC 205</p>	<p>चरक संहिता तैत्तिरीय उपनिषद अष्टांग हृदयम्</p> <p>यह विषय उन विद्यार्थियों के लिए है जिन्होंने प्रथम वर्ष में संस्कृत को DSC-1 प्रथम विषय के रूप में चुना है। इसके अंतर्गत आयुर्वेद का परिचय, आयुर्वेद का इतिहास, औषधि विज्ञान तथा आयुर्वेद के महत्व तथा चरक संहिता के अंतर्गत षडक्रतुओं,</p>

		रहन-सहन और आहार के विषय में, इसी के अंतर्गत तैत्तिरीय उपनिषद तथा अष्टांग हृदयम के विषय में विद्यार्थियों का ज्ञानवर्धन होगा।
9.	संस्कृत छंद तथा गायन DSC AEEC SEC 206	यह विषय उन विद्यार्थियों के लिए है जिन्होंने प्रथम वर्ष में संस्कृत को DSC-1 प्रथम विषय के रूप में चुना है। इस विषय के अंतर्गत छंद शास्त्र के इतिहास संस्कृत साहित्य में छंदों का स्थान, गायन विधि, विभिन्न छंदों का सस्वर पाठ तथा छंदों के विभिन्न नियमों का वर्णन है।
<b>तृतीय वर्ष</b>		
10.	व्यक्तित्व विकास का भारतीय दृष्टिकोण SKT DSE 301	स्नातक तृतीय वर्ष में व्यक्तित्व विकास का भारतीय दृष्टिकोण पाठ्यक्रम में है। इस विषय के अंतर्गत मानव व्यक्तित्व के संबंध में व्यक्तित्व विकास का भारतीय दृष्टिकोण क्या है, ऐतिहासिकता, व्यक्तित्व विकास की आवश्यकता, व्यक्तित्व का प्रभाव तथा व्यक्तित्व विकास में आने वाली चुनौतियों तथा उनका समाधान संस्कृत साहित्य में उपलब्ध महान ग्रंथों के अनुसार किस प्रकार किया जाए के विषय में विद्यार्थियों को नवीन सामग्री से व्यक्तित्व के विकास के नए समाधान प्राप्त होंगे। इसके अंतर्गत उपनिषद तथा गीता के कई उदाहरणों के माध्यम से बताया गया है कि मानव जीवन में आदर्श व्यक्तित्व का निर्माण किस प्रकार किया जाना चाहिए।
11.	साहित्यिक समालोचना SKT DSE 302	इस विषय के अंतर्गत आचार्य मम्मट कृत काव्यप्रकाश पाठ्यक्रम में है, जिसके अंतर्गत काव्य प्रयोजन, काव्य भेद, शब्द शक्तियां, रस एवं उसके प्रकार के विषय में वर्णन है। संस्कृत तथा अन्य भाषाओं के साहित्य में जितना भी काव्य उपलब्ध है वह किसी न किसी प्रयोजन से पाठकों

		<p>तक पहुंचाया गया है। यह ग्रंथ हमें काव्य प्रयोजन के विषय में विस्तार से तथा काव्य की शब्द शक्तियों और अंततः काव्य का जो लक्ष्य है वह किस प्रकार से रसों के माध्यम से पाठक वह श्रोता ग्रहण करता है, इस विषय के माध्यम से यह सब विद्यार्थियों को बताया जाएगा। इसके अतिरिक्त यदि किसी विद्यार्थी या व्यक्ति को लेखन के क्षेत्र में रुचि है तो वह इस ग्रंथ के माध्यम से यह जानने में सक्षम हो जाएगा कि काव्य में भाषा संप्रेषण, भावात्मक व कलात्मक पक्ष किस प्रकार से साहित्य में कार्य करता है।</p>
12.	<p>पातंजल योग दर्शन SKT DSC (GE)303 भाषा विज्ञान के मूलभूत सिद्धांत SKT DSC (GE)304</p>	<p>यह दोनों ही विषय है 303 व 304 स्नातक कक्षाओं की सभी विद्यार्थियों के लिए सामान्य रुचि के विषय में पाठ्यक्रम में है। इन विषयों को किसी भी अन्य विषय का विद्यार्थी सुन सकता है।</p> <p>पातंजलि योग दर्शन में योग दर्शन का ऐतिहासिक महत्व योग दर्शन के सिद्धांत समाधि पाद, साधन पाद, विभूति पाद तथा के कैवल्य पाद का वर्णन है इस विषय के माध्यम से वर्तमान जीवन में योग के महत्व को तथा जीवन में नैतिक मूल्यों का निर्वाह करते हुए किस प्रकार से स्वस्थ जीवन जिया जाए अपने विचार और मनोभावों पर किस प्रकार से नियंत्रण किया जाए इस विषय से यह लाभ विद्यार्थी प्राप्त कर सकते हैं।</p> <p>इसके अतिरिक्त दूसरे पाठ्यक्रम में भाषा विज्ञान के मूलभूत सिद्धांत के माध्यम से विद्यार्थी विश्व की विभिन्न भाषाओं उनके इतिहास व कौन सी भाषा किस भाषा परिवार वर्ग में आती हैं और विभिन्न भाषाओं में समान वर्णों का क्या क्रम है इस विषय में विस्तार से विद्यार्थियों का ज्ञानवर्धन होगा।</p>
13.	भारतीय रंगशाला	इस विषय के अंतर्गत रंगशाला की ऐतिहासिकता तथा

	SKT SEC 305	रंगमंच जिसके माध्यम से ऐतिहासिक नाटकों का मंचन और उन में छुपे संदेश, लोक रंगमंच, राष्ट्रीय व राज्य स्तरीय स्तर पर रंगमंच व अभिनय, रंगशाला का निर्माण व प्रकार, अभिनय के अंग जो आंगिक, वाचिक, सात्विक तथा आहार्य हैं इन सब विषयों के बारे में वर्तमान समय में इन सब विषयों की प्रासंगिकता, इनका स्वरूप किस रूप में बदला है इस विषय पर विद्यार्थियों को बताया जाएगा।
14.	भारतीय वास्तु शास्त्र SKT SEC 306	इस विषय के अंतर्गत वास्तु शास्त्र का इतिहास भारतीय वास्तु शास्त्र की सार्वभौमिकता वास्तु शास्त्र के विभिन्न अंगों भूमि परीक्षण, दिशाओं, निवास हेतु, वृक्षारोपण द्वार और भी वास्तुशास्त्र में वर्णित विविध विषयक ज्ञान के विषय में विद्यार्थियों का ज्ञानवर्धन होगा।

गणेश

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उद्योगिक

# Department of English

## **B.A. (English)**

### **PROGRAMME OUTCOMES**

- To encourage students to read and understand about the rich classical texts from Greek and Roman literature
- Should have an ability to read, listen, comprehend, summarise and draw inferences.
- Students will be to critically analyze and appreciate Indian writings and writers. They will be able to contextualize the events and opinions surrounding the partition period and its effect on the two countries.
- Students will be able to write formal and informal letters, applications and reports etc.
- It will help students to show familiarity with major literary works by British writers in the field of poetry drama and fiction throughout the centuries.
- Students will be able to critically analyze and evaluate American literature and will also develop their critical abilities.
- It will help students to probe into the literary and aesthetic merits of popular fiction.
- Students will be able to identify and comprehend romantic literature by reading a number of literary texts from that period.
- Should develop and improve their communication skills such as they should be able to communicate their ideas, suggestions, views and opinions clearly and logically.
- It will help students to identify and critically analyze the key concepts and practices in European theatre since the turn of the 20th century.
- It will help students comprehend how a literary text, explicitly or allegorically, represents various aspects of post colonial literature.
- It will help students to recognize the structures of biography and autobiography as distinct forms of literature.

### **PROGRAMME SPECIFIC OUTCOMES**

- Students should develop an ability to write logically, clearly and effectively for a variety of professional and social settings.
- Student must develop an ability to understand and accept a composite view of multiculturalism.
- Students should improve the necessary Communication Skills (verbal and non-verbal) to meet the global and local needs and enhance their employability.

## COURSE OUTCOMES

Year	PAPER CODE	COURSE NAME	COURSE OUTCOMES
1	ENG GE 101	English-1 Core English (Compulsory)	<ul style="list-style-type: none"> <li>• Students will interpret texts thereby enhancing their reading and writing skills.</li> <li>• Should have an ability to read, listen, comprehend, summarize and draw inferences.</li> <li>• Students must understand the importance of the articles, prepositions and verb forms that influence language, speech and writing.</li> <li>• Should develop a habit to learn new phrases to increase their vocabulary.</li> </ul>
1	ENG DSC 102/ ENGHONS GE 101	DSC-1A English Literature-I (Essays, Stories and Poems) (Core Course for students who choose English as Discipline)	<ul style="list-style-type: none"> <li>• Should be able to recognize and analyse any short story, poem and essay critically and analytically.</li> <li>• Should develop an ability to identify common structural and thematic features of any text.</li> <li>• Should develop an ability to recognize text's elements such as style, form, images, figure of speeches, connotations and references.</li> </ul>
I	DSC 1-B ENG DSC 103/ ENG HONS GE 102	English literature-2 (Poems, Short Stories and Essays)	<ul style="list-style-type: none"> <li>• Students will be able to use a variety of reading strategies to foster comprehension and construct relevant and meaningful connections to the text.</li> <li>• Should develop an ability to understand the different and distinct forms of language pluralities (power of language and politics of language).</li> <li>• Should be able to apply different critical, theoretical and philosophical approaches to variety of stories, poems and essays.</li> <li>• Should develop an ability to identify common structural and thematic features of any story, poem and essay.</li> </ul>

1	AECC-2 ENG AECC 104	Writing Skills	<ul style="list-style-type: none"> <li>It will enable students to employ appropriate writing process and skills for college success including note making, journal and assignment writing</li> </ul>
2	ENG CE 201	English-2 Core English (Compulsory)	<ul style="list-style-type: none"> <li>Students will interpret texts thereby enhancing their reading and writing skills</li> </ul>
2	ENG DSC 202/ ENGHOS GE 203	DSC 1-C British Literature 1 (Play and Novel)	<ul style="list-style-type: none"> <li>It will help students to comprehend British history and culture leading to a better understanding of the English language.</li> <li>Should be able to apply different critical, theoretical and philosophical approaches.</li> <li>Should develop an ability to recognize text's elements such as style, form, images, figure of speeches, connotations and references.</li> <li>Should be able to build vocabulary and knowledge of literary terminology.</li> <li>Should understand the literary concepts and elements of comedy and especially the "Romantic Comedy."</li> </ul>
2	ENG DSC 203/ ENG HONS GE 204	DSC-1D Literary Cross Currents Modern Indian Literature	<ul style="list-style-type: none"> <li>Should develop an ability to recognize text's elements such as style, form, images, figure of speeches, connotations and references.</li> <li>Should be able to build vocabulary and knowledge of literary terminology.</li> <li>Should be able to apply different critical, theoretical and philosophical approaches to variety of stories, poems and essays.</li> <li>Should develop an ability to identify common structural and thematic features of any story, poem and essay.</li> <li>Should have an ability to analyse the variety of literary forms in term of styles, language, conventions, themes and social cultural diversities.</li> <li>It will help students to interpret texts with</li> </ul>

			attention to ambiguity, complexity and aesthetic value.
2	ENG AEEC/SEC 204	AEEC/SEC - I: Creative Writing, Book and Media Reviews	<ul style="list-style-type: none"> <li>• Learn to maintain objectivity in writing.</li> <li>• Should build an ability to write small poems, compositions on day to day experiences.</li> <li>• Should have an ability to read, listen, comprehend, summarise and draw inferences.</li> <li>• Should create scopes for employability in the fields like blogging, editing, creative writing, newspaper reporting etc.</li> <li>• Should understand the importance of process and principles writing such as unity, objectivity, support, coherence etc.</li> </ul>
2	ENG AEEC/SEC 205	AEEC/SEC-2 Translation Studies and Principles of Translation	<ul style="list-style-type: none"> <li>• Students will be able to read and translate works of fiction. They will be able to understand and appreciate works of different languages.</li> <li>• Students should be able to understand principals of translations.</li> <li>• Should understand the types and methods of translation: sense based translation, word-to-word translation, imitations and adaptation etc.</li> <li>• Should be able to translate literary / non-literary passages from their mother tongue into English and vice-versa.</li> <li>• Should learn to display a working knowledge of translation to seek employability as an interpreter or a translator.</li> </ul>
3	ENG AEEC/SEC 301	AEEC/SEC-3 :Technical Writing	<ul style="list-style-type: none"> <li>• Should be able to write formal and informal reports and presentations.</li> <li>• Should develop and improve their communication skills such as they should be able to communicate their ideas, suggestions, views and opinions clearly and logically.</li> <li>• Should learn the skills of selecting topics, how to write thesis introductory, proceedings and minutes of the meetings etc.</li> <li>• Should develop knowledge of scientific</li> </ul>

			and technical subjects to write formal and informal technical compositions.
3	ENG AEEC SEC 302	AEEC SEC-4 Business Communication	<ul style="list-style-type: none"> <li>• Should be able to write coherent, clear, logical and correct letters.</li> <li>• Should be able to write formal and informal reports and presentations.</li> <li>• Should develop and improve their communication skills</li> </ul>
3	ENG DSE 303	DSE –1 A: Soft Skills	<ul style="list-style-type: none"> <li>• Should develop and improve their communication skills such as they should be able to communicate their ideas, suggestions, views and opinions clearly and logically.</li> <li>• Should develop leadership qualities through strong communication skills and ability to influence with humility.</li> <li>• Should understand the basic techniques of solving a problem.</li> </ul>
3	ENG DSE 304	DSE-1B Academic Writing and Composition	<ul style="list-style-type: none"> <li>• Should be able to write coherently and clearly.</li> <li>• Should be able to write formal and informal reports and presentations.</li> <li>• Should develop and improve their communication skills such as they should be able to communicate their ideas, suggestions, views and opinions clearly and logically.</li> <li>• Should be able to use exact, correct, and proper words or terms along with error free writing skills.</li> </ul>
3	ENG GE 305	GE 1 Literature from Himachal Pradesh	<ul style="list-style-type: none"> <li>• To explore a variety of reading strategies and construct relevant and meaningful connection to the text. It encourages students to read and understand literature of Himachal Pradesh.</li> </ul>
3	ENG GE 306	Contemporary India: Women and Empowerment (Generic Elective- 1	<ul style="list-style-type: none"> <li>• Should be sensitive to gender issues.</li> <li>• Should learn social constructions of genders in India and across the world.</li> <li>• Should understand the interdisciplinary approaches to gender sensitive issues.</li> <li>• Should understand the issues related to feminism.</li> </ul>

## MA ENGLISH

### **Programme Outcomes**

The programme is designed to help students to

- 1) Learn evolution of language and literature in different eras governed by certain prevailing needs, tastes or attitudes.
- 2) Develop communicative competence by internalizing a wide range of literary masterpieces.
- 3) Develop a better understanding of the people stereotyped as 'other' on the basis of nation, colour, gender, religion, race, caste, creed etc.
- 4) Become familiar with different cultures, traditions, customs, value systems and beliefs.
- 5) Develop critical thinking and creative potential by analyzing, categorizing and explaining different narratives.
- 6) Deepen ethical sense by recognizing and discussing the moral dimensions of human actions in various situations.
- 7) Reflect on existential conditions of humans and other creatures.

### **Programme Specific Outcomes**

By the end of the programme, students will be able

- 1) To identify various genres and forms of literary texts.
- 2) To compare and contrast literary texts of one period with that of another.
- 3) To analyze a literary text on the basis of its historical, cultural and political background.
- 4) To appreciate the rhetorical and stylistic features of a text.
- 5) To identify and adopt the manner of articulation.
- 6) To imbibe cultural sensibilities around the world.
- 7) To develop four language skills (LSRW) to widen the scope of employability and entrepreneurship.

### **Course Outcomes**

<b>Semester 1</b>		
<b>Course Code</b>	<b>Course Title</b>	<b>Course Outcome</b>
I	History of English Literature from Chaucer to 1800	To make students understand the philosophical movements and literary practices that permeated the British culture in these periods
II	Poetry from Chaucer to Pope	To help students appreciate the classic, allusive and satirical style of earlier masters of poetry
III	Shakespeare and his Contemporaries	To acquaint students with the literary and linguistic competence of the great playwrights of the Elizabethan age
IV	Nineteenth Century Fiction	To make students analyze the narrative techniques employed by the British novelists in 19 <sup>th</sup> century
<b>Semester 2</b>		
<b>Course Code</b>	<b>Course Title</b>	<b>Course Outcome</b>

V	History of English Literature: Nineteenth and Twentieth Centuries	To make students understand the philosophical movements and literary practices that permeated the British culture in these periods
VI	Romantic and Victorian Poetry	To allow students to deepen their poetic sense by evaluating the development and progression of British Poetry in the works of William Wordsworth, Keats, Tennyson, Arnold etc.
VII	Modern Fiction	To let students reflect critically on the narrative structures observing human condition in the tense sociopolitical context of the modern times
VIII	Growth and Structure of English Language	To familiarize students with the evolution of English language

### Semester 3

Course Code	Course Title	Course Outcome
IX	Literary Criticism from Aristotle to T. S. Eliot	To develop students' ability to judge a literary work by providing them various interpretive tools and methods
X	Modern British and American Poetry	To help students appreciate the poetic movement in a turbulent era of technological advancement.
XI	Modern British Drama	To make students observe twentieth century playwrights' approaches to develop themes such as alienation and disconnection in order to define modern times
XII	World Fiction	To grow students' capacity to imbibe various cultural values, beliefs and perspectives reflected through literary practices in various countries

### Semester 4

Course Code	Course Title	Course Outcome
XIII	Contemporary Literary Theory	To develop students' ability to read a literary text from different points of view
XIV	American Drama	To enrich students' experience of reading by introducing them to the dramatic world of America's most influential playwrights
XV	Indian Writing in English	To introduce a wide variety of themes and ideas as reflected by Indo-Anglian literature
XVI	Indian Writing in Translation	To make students appreciate the best Indian literature found in the various Indian languages and made available through the art of translation

## **Department of Economics**

Department of Economics is classified as theoretical, developmental and applied perspectives. The core of the theoretical courses viz., micro, macro, trade theory, growth and development, public economics disciplines are maintained with the philosophy of both western and Indian thoughts. These courses provide a solid grounding to the learners on the history of ideas and the larger issues of epistemology in social sciences. It related to largely sectoral economics, viz. Agriculture, Environment, Labour, Money, Banking and Finance, Industry, Theories of Discrimination, and provides information on institutions, processes, functions analysis on political economy aspects in India and across the Globe. The courses deals application of economics theories with mathematics, and statistics, Statistics, Econometrics, Research Methods, Social Accountings and Data Base and application with modern technology such as Computer Softwares and E-Resources.

### **Program Specific Outcomes**

- To explore the fundamental concepts of micro economic theory.
- To make the students aware of the theoretical aspects of macroeconomic theory.
- To make students understand the theory of consumer behaviour, producer behaviour, cost sand revenue, markets, factor pricing and welfare economics.
- To familiarize the students with the basic principles and concepts of banking and working of banks.
- To equip the students with statistical role to analyze economic problems.
- To make them understand various problems and issues faced by Indian economy.
- To give a non technical overview of government finances and to expose the students to the organizational structure and role of financial markets and institutions.

## BA (Economics)

### Course Outcome

Sr. No	Subject Code	Subject Name	Subject Category	Course Outcome
<b>YEAR 1</b>				
1.	ECONA101	Principles of Microeconomics I	DSC- 1	To expose the students to the basic principles in micro economic theory and illustrate the same with applications
2.	ECONA102	Principles of Microeconomics II	DSC – 2	To further the understanding of the students so as to achieve conceptual clarity
<b>YEAR 2</b>				
3.	ECONA201	Principles of Macroeconomics I	DSC – 3	To introduce the students to the basic concepts of macro economics, measurement of the macro economic variables and to discuss various theories of determining GDP in the short run
4.	ECONA 202	Principles of Macroeconomics II	DSC – 4	To introduce the student to concept of inflation, its relationship with unemployment and basic concepts in an open economy
5.	ECONA204	Economics of Rural Development	SEC – 1	This course is designed to instill in the student a deeper understanding of rural development and issues therein. The student is expected to also achieve an appreciation of

				institutional efforts aimed at achieving rural development.
6.	ECONA206	Demography	SEC – 2	The main objective of this paper is to make the students aware of the importance of population in economic development and the various theories that explain the growth of population in a country. The study of Quantitative and Qualitative composition of population is also required to understand the dynamics of population growth.
<b>YEAR 3</b>				
9.	ECONA303	Economy of Himachal Pradesh	DSE-1	This course highlights the basic features, characteristics and developmental issues of the Himachal Pradesh economy.
10.	ECONA305	Development Economics	DSE-2	The course discusses alternative conception of development and their justification through models of growth and cross national comparison
11.	ECONA 310	Public Finance	SEC-1	To give a non technical overview with special reference to India
12	ECONA 311	Money and Banking	SEC-2	To expose students to the theory and functioning of monetary and financial sectors of the economy



## M.A. (Economics)

### Course Outcome

Sr. No	Subject Code	Subject Name	Subject Category	Course Outcome
<b>SEMESTER I</b>				
1.	I	Microeconomics		The course exposes the students to the basic principles of micro economic theory and illustrates how micro economic concepts can be applied to analyze real life situations
2.	II	International Economics		A systematic exposition of models explaining the composition, direction and consequences of international trade and determinant and effects of trade policy
3.	III	Elementary Mathematical Economics		The main outcome to explain how mathematical techniques can be applied to economic theory
<b>SEMESTER II</b>				
4.	IV	Macroeconomics		The course introduces the students to the advanced concepts of macro economics
5.	V	Money and Banking		To expose students to the theory and functioning of the monetary and financial sectors of the economy
6.	VI	Basic Statistics		Introduce the students to the notion of sampling techniques, probability, probability distribution and statistical inference
<b>SEMESTER III</b>				
7.	VII	Economics of Development Planning		The course explains demographic concepts and their evolution by linking the structure of markets and contracts to problems of enforcement experienced in poor countries

8.	VIII	History of Economic Thought		
9.	IX	Agriculture Economics		To explain the different theories on agricultural development to cement their skills in undertaking research in the field of agricultural economics. It provides details views of the process of agricultural development in the country since independence.
<b>SEMESTER IV</b>				
10.	X	Indian Economy		To explain sector specific policies and their impact in shaping trends in key economic indicators in India
11.	XI	Public Finance		To provide an overview of government finances with special reference to India
12.	XII	Labour Economics		It provides a details analysis on the latest development of labour market in developing countries with reference to India The paper laid a special emphasis on informal sector and the problem of labour in India.

## हिंदी विभाग

- कार्यक्रम के विशिष्ट परिणाम

- 1, हिंदी भाषा की उत्पत्ति एवं मूल अवधारणा की जानकारी ।
- 2, हिंदी भाषा की नई विधियों को खोजने और नई दिशा देने की प्रक्रिया के साथ हिंदी साहित्य के विभिन्न पहलुओं को समझना।
- 3, हिंदी साहित्य के आधारभूत और दृष्टिकोण की विधियों के बारे में जानना।
- 4, हिंदी साहित्य की दार्शनिक विधि को विस्तारपूर्वक समझना।
- 5, अतीत से वर्तमान तक हिंदी भाषा की अवधारणा का मूल्यांकन करना तथा साहित्य के माध्यम से समाज का गहराई से अध्ययन करना।
- 6, छात्र को केवल विषय तक ही सीमित ना रखना बल्कि साहित्य के व्यापक क्षेत्र की जानकारी देना।
- 7, वर्तमान युग के संदर्भ में छात्रों को हिंदी भाषा का महत्व समझाना ।
- 8, विश्व की वास्तविक स्थिति को विभिन्न कवियों और लेखकों के द्वारा लिखित कविता और कहानियों के माध्यम से समझाना।

### हिंदी विभाग व कोर्स आउटकम

क्रम संख्या	विषय कोड	विषय	विषय श्रेणी	कोर्स आउटकम
1	हिंद 101	प्रयोजनमूलक हिंदी	अनिवार्य हिंदी बीए बीकॉम प्रथम वर्ष	हिंदी व्याकरण की मूल अवधारणा और प्रयोजनमूलक हिंदी के विभिन्न प्रकारों का अध्ययन
2	हिंद 102	हिंदी साहित्य का इतिहास	डीएससी1A	आदिकाल भक्ति काल और रीतिकाल की प्रवृत्तियों को समझना।
3	हिंद 103	मध्यकालीन हिंदी कविता	डीएससी1B	साहित्य और समाज में भक्ति कालीन के कवियों द्वारा निभाई गई भूमिका को समझना
4	हिंद 104	हिंदी भाषा और संप्रेषण	ए ई सी सी	हिंदी व्याकरण की संपूर्ण जानकारी
5	हिंद 201	रचना पुंज	अनिवार्य हिंदी	वर्तमान युग के संदर्भ में कविता और कहानियों के माध्यम से मानवीय मूल्यों को

					समझना
6	हिंद 202	आधुनिक हिंदी कविता	डी एस सी1C		छायावादी कवियों की कविताओं का अध्ययन करना
7	हिंद 203	गद्य साहित्य	डीएससी1D		विभिन्न कहानियों और लेख के माध्यम से वर्तमान युग के संदर्भ में समस्याओं का अवलोकन
8	हिंद 204	कार्यालय हिंदी	Sec-1		कार्यालय कार्यों हेतु हिंदी भाषा का प्रयोग करना
9	हिंद 206	अनुवाद विज्ञान	Sec-2		अनुवाद की अवधारणा को समझना
10	हिंद 301	रंग मंच एवं रंग आलेख	Sec 3		अभिनय और अभिनेता की जानकारी देना
11	हिंद 304	समाचार संकलन एवं लेखन	Sec-4		समाचार लेखन और पत्रकारिता की विधियों की जानकारी देना
12	हिंद 305	लोक साहित्य	डी एस ई		लोक साहित्य का लोक वार्ता, लोकनाट्य, लोक गीत के साथ सम्यक अध्ययन
13	हिंद 306	छायावादोत्तर हिंदी कविता	डी एस ई		कविता में छंद अलंकार व भाषा की जानकारी प्रदान करना
14	हिंद 307	आधुनिक भारतीय साहित्य	GE1		भारतीय नवजागरण, स्वाधीनता संग्राम व राष्ट्रीयता भावना का अध्ययन और वर्तमान संदर्भ में इसका भारतीय साहित्य पर प्रभाव।
15	हिंद 308	सृजनात्मक लेखन के विविध क्षेत्र	GE2		विद्यार्थियों को विविध क्षेत्र जैसे फीचर लेखन रिपोर्टाज व दृश्य सामग्री के लिए प्रोत्साहन देना

## B.A. (Political Science)

### Program Outcomes/Program Specific Outcomes:

- This course provides learners with knowledge and skills needed to prepare for professional level with deep knowledge in teaching, administrator, lawyer and political scientist etc.
- This program also provides basic knowledge of political education. It trains about the political and government at local, state, national and international level.
- It also encourages the students to think critically and give informations about public life and politics.

### Course Outcomes

S.No.	Course Name & Course Code	Course Type	Course Outcome
<b>First Year</b>			
1.	Introduction to Political Theory (DSC-1 A POLS 101)	Core Course	<ul style="list-style-type: none"> <li>• To understand the political theory and to have a knowledge about the significance of political theory.</li> </ul>
2.	Indian Government and Politics (DSC-1 B POLS 102)	Core Course	<ul style="list-style-type: none"> <li>• The study of Indian government and politics provides the whole knowledge of the Indian government and politics to the students. This encourages the students to think and analyze the politics of India</li> </ul>
<b>Second Year</b>			
3.	Comparative Government and Politics (DSC-1 C POLS 201)	Core Course	<ul style="list-style-type: none"> <li>• Comparison of the local, state and national government enable the students to make a comparison of different governments.</li> </ul>
4.	Introduction to International Relations (DSC-1 D POLS 202)	Core Course	<ul style="list-style-type: none"> <li>• It enable to the students to understand the relations of one nation with the others in the world for example collective security, balance of power etc. It studied about UNO which maintain the international peace and security.</li> </ul>
5.	Legislative Support SEC-1-POLS 203	SEC	<ul style="list-style-type: none"> <li>• It includes the knowledge of law, articles, rights and duties of the nations.</li> </ul>
6.	Public Opinion and Survey Research SEC-2-POLS 204	SEC	<ul style="list-style-type: none"> <li>• It enable the students to learn the ideas of great political thinkers of the ancient as well as modern time.</li> </ul>
<b>Third Year</b>			
7.	Themes in Comparative Political Theory DSE-1A POLS 301 (A)	DSE-1 Option -1	<ul style="list-style-type: none"> <li>• To understand the comparative analysis of different government and political system of the countries like UK, USA, China, India, and Switzerland.</li> </ul>
8.	Administration and Public Policy Concepts and	DSE-1 Option -2	<ul style="list-style-type: none"> <li>• It helps to understand about the structure</li> </ul>

	Theories DSE-1A POLS 301 (B)		of civil services and organizations and enable the students to have the knowledge about budget preparations and executions.
9.	Democracy and Governance DSE-1B POLS 302 (A)	DSE-2 Option -1	<ul style="list-style-type: none"> <li>• It helps to understand the students about the democratic setup and Indian government and state government.</li> </ul>
10.	Understanding Globalization DSE-1B POLS 302 (B)	DSE-2 Option -2	<ul style="list-style-type: none"> <li>• It inculcate the knowledge of globalism and the sense of oneness, helpfulness at international level</li> </ul>
11.	Democratic Awareness Through Legal Literacy SEC-3 POLS303	SEC	<ul style="list-style-type: none"> <li>• It provides the legal awareness and knowledge to students. It includes the Outlining of the Legal System in India and description of various laws.</li> </ul>
12.	Conflict and Peace Building SEC-4 POLS304	SEC	<ul style="list-style-type: none"> <li>• It enables the students to understand conflicts among nations.</li> </ul>
13.	Society economy and Politics in Himachal Pradesh GE-I POLS 305	GE-1	<ul style="list-style-type: none"> <li>• It provides the knowledge of econmy and politics of Himachal Pradesh</li> </ul>
14.	Human Rights, Gender and Environment GE-2 POLS 306	GE-2	<ul style="list-style-type: none"> <li>• It makes the students aware about the human rights and its violation. It gives emphasis to protect the genderdiscrimination.</li> </ul>

## **BA (HISTORY)**

### **Program Outcomes/ Program Specific Outcomes**

The Department of History seeks to better understand what humanity is, by investigating what humanity has done. It believes that historical perspective is fundamental to understand the world in which we live. To that end, the department offers various courses that explore both past and contemporary societies and their people. The general aims and objectives of all degree program in the department are to develop students' interest in, to promote their study of, the past and to promote historical (subject specific) skills including the understanding of cultural, social, political, economic, intellectual and religious changes in the past, and their relation to the historical context of the period under study. Department organizes various co- curricular and extra-curricular activities for the overall development of the students Department. The History Department has good record of results and it intended to carry the tempo in future also.

The department of history at G.P.G.C. Bilaspur (H.P.) is committed to excellence and research. Students are trained in specific skills related to the discipline and are provided geographic, thematic, and chronological coverage of the past from global perspective. Our mission reinforces general educational objectives of critical thinking, reading, writing and communication skills. Our undergraduate program trains students in advanced historical methods of research and analysis and provide in-depth seminars that reflects diverse specializations in the department. And as a teacher I am expected to regularly be engaged in research activities, both to update lecture and class material and to contribute new knowledge.

## Course Outcomes

In the BA History programme students have to study four types of courses which are following

- a) DSC- Discipline specific core courses
- b) DSE- Discipline specific elective
- c) GE- Generic elective
- d) SEC –Skill enhancement course

### 1. BA I PROGRAMME

Sr.no.	Course type	Course name	Subject /course outcome
1	DSC I	History of India from the earliest times up to 300ce DSC-1A:HIST(A)101	Students coming from various backgrounds so giving them a general understanding of subject. Develop interest in the subject. Understanding multidisciplinary approach of the subject. Develop scientific temper towards the subject. Understanding sources of history.
2	DSC II	History of India c. 300 to 1206 DSC-IB :HIST(A)102	Understanding political, social and economic aspects of the period. To understand students state building process in Indian subcontinent. Understanding social behaviour in Indian society.

### 2. B.A. II

Sr. No	Course Type	Course Name	Course /Subject Outcome
3	DSC III	History of India ,c.1206-1707 DSC-IC:HIST(A)203	Understanding medieval history of India. Amalgamation of different cultures in Indian society. Political instability in Indian subcontinent. Trade and its economic consequences over Indian soil.
4	DSC IV	History of India,c.1707-1950 DSC-ID:HIST(A)204	Understanding colonial development in Indian subcontinent Economic exploitation of Indian people. Education, transportation and press, how deeply affect the life of people. Political consciousness of Indian people.
5	SEC I	Historical tourism SEC-I:HIST(A)213	Tourism in India and understanding Historical tourism. Understanding building heritage in India. Understanding art and architecture in Himachal Pradesh.
6	SEC II	An introduction of Archaeology SEC-2:HIST(A)215	Meaning and history of archaeology. Principal and sources of archaeology. Different approaches towards interpretations of History.

			<p>Research, excavation, methods of fixations of time.</p> <p>Field works and tool of research.</p> <p>Documentation, codification, classification of archaeological remains.</p>
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3. B.A.III

Sr.No.	Course Type	Course Name	Course/Subject Outcome
7	DSE I	Modern and contemporary world history:1871-1919 DSE – IA:HIST(A)305	<p>Understanding formation of modern Europe.</p> <p>Understanding imperialism and its race in world.</p> <p>19<sup>th</sup> century a century of change and how it affects the world.</p> <p>European hegemony.</p>
8	DSE II	Modern and contemporary world history:1919-1992 DSE-IB:HIST(A)307	<p>Understanding military conflicts in world.</p> <p>Internal developments in Europe.</p> <p>Wartime diplomacy and defeat of totalitarian state.</p> <p>Nationalist movements and decolonization.</p> <p>Cold war and its political origins</p> <p>Social conditions and issues after the post-colonial world.</p>
9	SEC III	Indian history and culture SEC -3-HIST(A)317	<p>Understanding environment, culture, tradition and practices of Indian culture.</p> <p>Issues if settlements and landscapes.</p> <p>Social inequality and gender. Cultural heritage.</p>
10	SEC IV	Introduction of Indian art SEC-4-HIST(A)319	<p>Understanding art, craft, sculpture, reliefs, paintings , miniature, mural, rangoli, folk art.</p> <p>Development of Indian art in various stages.</p> <p>Students should get the knowledge of customs and traditions.</p>
11	GE I	Social religious reform movements in India(19 <sup>th</sup> and 20 <sup>th</sup> centuries) GE-1:HIST(A)310	<p>Background and causes of reform movements.</p> <p>Understanding various reform movements in Indian society</p> <p>Ideas of social reforms and movements against caste.</p> <p>Understanding situation of women, education and caste.</p>
12	GE II	History of Himachal Pradesh,1815-1972 GE-2:HIST(A)312	<p>Understanding formation of Himachal Pradesh.</p> <p>Establishment of British paramountcy.</p> <p>Understanding idea of Himachal Pradesh.</p>

## BA (Sociology)

### Program Outcomes/Program Specific Outcomes:

- **Sociological Thinking:** It plays vital role in shaping individuals' lives in society. Critical social thinking empirically used to assess students learning outcomes.
- **Social Research Methods and Techniques:-** It helps students to explore, describe and explain the aspects of social world both qualitatively and quantitatively, as well as evaluate whether particular programs or policies actually work.
- **Social Theories:-** Usually supported in Research Institutions as a core component of the discipline of sociology, social theories most commonly encompasses the range of explanatory concepts, analytical tools and heuristic methods on which sociologists and social scientists draw in their efforts to interpret statistical or qualitative data.
- **Social Institutions:-** These are interrelated system of social roles and social norms, organized around the satisfaction of an important social needs and functions. Social Institutions are organized patterns of belief and behavior that are centered on basic social needs.
- **Family, Marriage and Kinship:-** With respect to family and marriage, these concepts help us to compare family systems across cultures. It is important to understand the kinship descent and family relationships in society to make human social relations viable.
- **Society:-** The basic purpose of society is to be part of a collective movements and move forward together. Being a part of society is about taking every one along, it is about taking unanimous decisions for the achievement of a common goal. In society how people are interrelated on the basis of social relations and know how to behave in society in different circumstances and help them to be good citizens of a society.
- **Social Problems:-** Think critically about the social problems that how some critical situations disintegrate our society and give suggestions to solve these problems and be aware about the various legislative policies made by the government to mitigate these problems from the roots of society.

### Course Outcomes

S.No.	Course Name & Course Code	Course Type	Course Outcome
<b>First Year</b>			
1.	Introduction to Sociology SOCL-A 101	DSC-1A & 1B	This introductory paper is intended to acquaint the students with sociology as a social science and the distinctiveness of its approach among the social sciences. It is organised in such way that even students without any previous exposure to sociology would acquire an interest in the subject and follow it.
2.	Society in India SOCL-A 102	DSC-2A & 2B	The Present course introduces the students to the basic features of Indian society and focus on multi-cultural nature of Indian society. Students will be acquainted with the different institutions as well as various issues that are prevalent in

			Indian society like communalism, casteism, women's movements, etc.
<b>Second Years</b>			
3.	Sociological Theories SOCL-A 201	DSC-1C & 1D	The present course introduces the students to the classical sociological thinkers, whose work has shaped the discipline of sociology. Acquaintance with the writing of three thinkers (Auguste Comte, Karl Marx, Max Weber, Emile Durkheim) would equip the students with theoretical insights to know, analyze and interpret the social scenario around them and would also familiarize them with the different sociological perspectives and theories.
4.	Methods of Sociological Enquiry SOCL-A 202	DSC-2C & 2D	The course is a general introduction to the methodologies of sociological research methods. It will provide the student with some elementary knowledge of the complexities and philosophical underpinnings of research.
5.	Techniques of Social Research SOCL-A 203	SEC-1	This course aims to enhance the skills of students to understand and use techniques employed by social scientists to investigate social phenomena. With emphasis on formulating research design, methods of data collection, and data analysis, it will provide students with some elementary knowledge on how to conduct both, quantitative and qualitative research. The focus is on understanding through suggested exercises.
6.	Sociology of Environment SOCL-A 204	SEC-2	This course will sensitise students about the issues related to environmental concerns and interrelationship of environment and society.
<b>Third Years</b>			
7.	Social Demography SOCL-A 301	SEC-3	This course intends to train students in the specialized technique of population studies and recent trends in demographic processes.
8.	Theory and Practice of Development SOCL-A 302	SEC-4	This course aims to familiarize students with the arguments of development theory in the decades of 80s onwards and equip them with some of the methodology in development practices adopted since then.
9.	Religion and Society SOCL-A 303	DSE-1A&1B Option -1	This course acquaints students with a sociological understanding of religion. It examines some forms of religion in India and its role in modern society
10.	Marriage, Family and Kinship SOCL-A 304	DSE-1A&1B Option -2	This course aims to highlight and critically examine contemporary concerns in the fields of marriage, family and kinship. It considers theoretical issues and ethnographies with particular emphasis on diversity of practices.
11.	Social Stratification SOCL-A 305	DSE-2A&2B Option -1	The course introduces the student to various ideas of Social inequality and their sociological study. The different forms and institutional



## **BA (TOURISM AND TRAVEL MANAGEMENT)**

### **Program Outcomes**

- **Generating Skilled Resource for Various Avenues in Tourism Sector:** To play a significant role in generating expert work force for tourism industry at local, national and international level by providing skills in planning, packaging, and pricing based on market requirements etc.
- **Imbibing Competencies for Global Exposure:** To expose students to competencies required in developed and developing countries in concerned areas along with all relevant issues.
- **Leadership Qualities and Discipline:** To fortify skills in the field of research, leadership, entrepreneurship, travel agency management, event management and transportation management.
- **Technical Experiential Life Long Learning with Innovation and Creativity:** To provide specialized technical training and exposure to make the student competent, professional at national and international level through experiential learning and imbibe the quality of innovation and creativity for life-long learning.
- **Professional Ethics:** To prepare student for industry / academia by getting them trained in all the aspects related to professional ethics.

### **Program Specific Outcomes**

- **Global Work Environment:** To assess the challenges and opportunities of working effectively with diverse people in a global environment.
- **Technical Competencies:** To attain the supervisory skills and technical competencies necessary to meet the needs of ever demanding Tourism sector at regional and national level
- **Fundamental Knowledge:** To identify the diverse nature of tourism including cultural place, global/local perspectives, experience design and provision.
- **Impact of Information Technology:** To implement the knowledge of information technology and its implications for the advancement of tourism and travel operations globally.
- **Emerging Trends:** To understand the products and structure of the tourist industry and its contemporary business environment including the operation of the tourist market, current global tourism trends, issues and policies.
- **Business Management Knowledge:** To apply business principles as well as basic accounting, budgeting, financial and administration skills to support the effective management and operation of a variety of organizations delivering tourism products and services.
- **Research Knowledge:** To obtain the understanding of undertaking qualitative and quantitative

research as major independent work for the purpose of market study, trend and growth analysis, projections etc.

- **Communication:** To communicate effectively through report writing, documentation and effective presentations
- **Leadership Skills:** To develop a range of leadership skills and abilities such as motivating others, leading changes, and resolving conflict.
- **Tourism Linkages:** To understand inter- componential relationships between the major components of tourism and allied sectors.
- **Advance Employability Skills:** To enhance skills for future employability through activities such as seminar, industrial visit, internship, dissertation.
- **Professional Ethics:** To develop critical thinking abilities and a foundation of ethical principles to work ethically and professionally with people of diverse backgrounds

**Course Outcomes  
1<sup>st</sup> Year**

Sl. No	Course Code	Title of Course	Course Outcomes
1.	TTMC101	Introduction of Travel and Tourism Management	<p>To introduce and familiarize the concept of tourism.</p> <p>To elaborate on how tourism originated</p> <p>To elucidate the different travel motivations and components of tourism</p> <p>To analyze the impacts of tourism – economic, environmental and socio-cultural</p> <p>To throw light on the changing scenario of the tourism industry</p>
2.	TTMC102	Tourism Resources of India	<p>This course aims at developing the knowledge of Tourism Products, Assets and Resources of India. The module aims at creating a systemized method of classifying the various products and resources and examining them. To develop the knowledge of Tourism Products, Assets and Resources of India. To create a systemized method of classifying the various products and resources and examining them. To understand the importance and significance of tourism products from ancient, medieval to contemporary time period.</p>

## 2<sup>nd</sup> Year

Sl. No	Course Code	Title of Course	Course Outcomes
1.	TTMC201	Travel Agency & Tour Operation	<p>To impart the professional knowledge to meet the requirements of travel and tourism industry.</p> <p>To provide the students with an understanding of the role, function and operation of organization in travel trade and transport sectors.</p> <p>Travel agency and tour operation is offered with an objective to understand the relevance of tourism business as an important stakeholder in the tourism segment. The modules are developed to enhance specialized knowhow on the technical aspects of travel business with practical approach. Travel agency and tour operation business comprehensively examines the theoretical and applied dimensions of business practices in the current context of tourism with a global perspective. The paper provides the students with an understanding of the role, function and operation of organization in travel trade and transport sectors.</p>
2.	TTMC202	Tourism Marketing	<p>This course provide the students with an understanding of the concept of Tourism marketing and its applications on product development, pricing promoting, and selling and distribution of tourism products consisting of airlines, international travel, ground transportation, cruising, hotel and lodging, restaurants, and tours. Students will learn the importance of hospitality and tourism marketing. To learn the basic marketing concepts and its applications in tourism sector. Students will also be able to understand the significance of tourism marketing and develop them as successful marketing professionals.</p>
3.	TTMC204	Tourism Organizations & Associations	<p>This subject intends to introduce new concepts and terminologies used in the Tourism Industry, throws light on the different components of tourism, formalities and regulations followed as well as role of tourism organizations. It even explains the future of the Tourism Industry with reference to new trends and issues.</p>
4.	TTMC205	Field Tour ( 100 % Internal Assessment)	<p>To give students the practical exposure of Itinerary making and ground reality of handling a tour. Students are also expected to submit a report after the Field tour and leaning outcomes are discussed in detail coving all aspects of Tour, Such as Tour Costing etc</p>

### 3<sup>rd</sup> Year

Sl. No	Course Code	Title of Course	Course Outcomes
1.	TTMC301	Tourism Guiding/ Escort Services	<p>Gather, resolve and interpret information about tourism guidance.</p> <p>Apply core values and principles related with tourism guidance.</p> <p>Plan, implement and supervise a tour.</p> <p>Plan activities for professional development of employees in tourism</p> <p>Apply service the fundamentals of tour guidance considering the satisfaction of tourists.</p> <p>Know and apply the rules of group management.</p> <p>Comply with ethical and social values in the field of tourism guidance.</p>
2.	TTMC308	Hotel and Resort Management	<p>To expose students to global practices in hospitality industry</p> <p>To equip students with relevant trade skills and knowledge to meet the challenges of hospitality industry.</p> <p>To understand the structure, dynamics of hotel industry, hospitality management linkages. The course also exposes students to global practices in hospitality industry. It also equips students with relevant trade skills and knowledge to meet the challenges of hospitality industry.</p>
3.	TTMC309	Writing Skills for Tourism	<p>To introduce various aspects of reporting, from understanding how travel news is constructed, to how to report various travel news stories. Editing will also be an important component of the paper that will go along with Reporting. Editing will help the students to understand how travel related news will flow in the newspaper organization, what changes will have to be done on the news, and finally how the various elements, including the news and photographs are presented in a pleasing manner through the page design.</p>

## BA (Physical Education)

<b>Department of Physical education</b>	After successful completion of three-year degree program in physical education a student should be able to;
<b>Programme Outcomes (PO)</b>	PO-1. Analyze, interpret, explain and evaluate physical education and its fundamentals PO-2. Use modern techniques for sport performance enhancement. PO-3. know about the importance of physical education in personality development and participation in sports PO-4. Create an awareness of the impact of Physical education on the society. PO-5. To inculcate the scientific temperament in the students
<b>Programme Specific Outcomes (PSO)</b>	PSO-1. Gain the knowledge of Physical education through theory and practical which shall serve as basis of higher studies in the field of physical education for interested students PSO-2. Understand good playfield practices and safety. PSO-3. Apply the cognitive and/or movement experiences from the Physical Education curriculum in order to participate in lifelong fitness PSO-4. Make aware and handle the sophisticated sports equipments.
<b>Course Outcomes (CO) B.A. With Physical Education</b>	
<b><u>First Year</u></b>	
<b>Course Code &amp; Title</b>	<b>Course Outcomes</b>
<b>(PED 101TH/ DSC -1A)</b> <i>Introduction to Physical Education</i>	CO-1. Get a clear vision to the Meaning, Definition, aims, objectives, Need & importance of Physical Education. CO-2. Relationship of Physical Education with General Education. CO-3. Historical Development of Physical Education in India CO-4. Biological Basis of Physical Education CO-5. Career opportunities in Physical Education and Sports
<b>PED 101PR</b> <i>Athletics &amp; Game-1</i> <i>(Shot put and Long jump)</i>	CO-1. Well-equipped with basic skills, techniques & rules of Shot put, Long Jump, Badminton/Weight Lifting CO-2. Knowledge of History of above events CO-3. Updated with National and International tournaments & players associated with the game
<b>(PED 102 TH/ DSC-1B)</b> <i>Olympic Movement &amp; Organization of Tournaments</i>	CO-1. To understand the historical development of Olympic movement CO-2. Knowledge of India's performance in world level sports competitions CO-3. Know the historical background of development of Physical Education in India CO-4. To understand the concept of various sports tournament and their management
<b>PED 102PR</b> <i>Athletics &amp; Game-2</i> <i>Sprints, Basketball/ Table Tennis</i>	CO-1. Well-equipped with basic skills, techniques & rules of Sprints, Basketball/Table tennis CO-2. Knowledge of History of above events CO-3. Updated with National and International tournaments & players associated with the game

**Course Outcomes (CO) B.A. With Physical Education  
Second Year**

<b>Course Code &amp; Title</b>	<b>Course Outcomes</b>
<b>(PED 201 TH/ DSC-1C)</b> <i>Human Anatomy &amp; Physiology</i>	CO-1. To study the basic physiology of different Systems of Human body CO-2. Gain the knowledge of the benefits of regular exercise and healthy eating CO-3. To understand the basic concept of Exercise Physiology CO-4. To know the concept of energy and fatigues & their better management for sportspersons
<b>PED 201PR</b> <i>Athletics &amp; Game-3 High Jump, Javelin, Handball/Boxing</i>	CO-1. Well-equipped with basic skills, techniques & rules of High Jump, Javelin Throw, Handball/Boxing CO-2. Knowledge of Historical development of above events CO-3. Updated with National and International tournaments & players associated with the game
<b>(PED 202 TH/ DSC-1D)</b> <i>Sports Psychology</i>	CO-1. Understanding of sports psychology, learning, learning curve, motivation, instinct, and emotion, stress, personality and sociological aspects etc. CO-2. Clarity of concept of growth and development CO-3. Factors affecting the motivation and learning of a sportsperson
<b>PED 202PR</b> <i>Athletics &amp; Game-1</i>	CO-1. Well-equipped with basic skills, techniques & rules of High Jump, Javelin Throw, Handball/Boxing CO-2. Knowledge of Historical development of above events CO-3. Updated with National and International tournaments & players associated with the game
<b>(PED 203 TH/ SEC-1)</b> <i>Sports Medicine, Physiotherapy &amp; Rehabilitation</i>	CO-1. Types of Sports Injuries and their prevention management CO-2. Understand the concept of Doping CO-3. Study the ergogenic Aids in sports CO-4. Understanding the various techniques of rehabilitation

**Course Outcomes (CO) B.A. With Physical Education  
Third Year**

<b>Course Code &amp; Title</b>	<b>Course Outcomes</b>
<b>(PED 305 TH /DSE-1A)</b> <i>Recreation</i>	CO-1. Understanding of concept of recreation with special attention to sports CO-2. Importance of camping & picnic in general & in specific to sportspersons
<b>(PED 306 TH /DSE-1A)</b> <i>Kinesiology &amp; Biomechanics</i>	CO-1. Basic knowledge of kinesiology and its utilization in sports CO-2. Understanding of biomechanical terms involved in enhanced sports performance CO-3. Laws of Motion and its applicability in sports performance
<b>(PED 307 TH/ DSE -1B)</b> <i>Methods of Teaching in Physical Education</i>	CO-1. Lesson Planning for Physical Education & Sports students/players CO-2. Understanding of various teaching aids & skills
<b>(PED 308 TH/ DSE -1B)</b> <i>Officiating &amp; Coaching</i>	CO-1. Knowledge of philosophy of coaching & officiating CO-2. Qualities of Coaches & various technical official of games & sports
<b>PED304PR</b> <i>Specialization in Athletics</i>	CO-1. Knowledge of Track and field & its markings CO-2. Technical & tactical Training of athletes CO-3. Record keeping of various athletic events
<b>PED301PR-Volleyball</b> <b>PED302PR-Football</b>	CO-1. Well-equipped with basic skills, techniques & rules of Volleyball, Football & Kabaddi

<b>PED303PR-Kabaddi</b>	CO-2. Knowledge of specific warming-up for these games CO-3. Updated with quality control of equipments required CO-3. Prevention and first-aid management of injuries during these games
<b>(PED 305 TH /DSE-1A)</b> Recreation	CO-1. Understanding of the concept of recreation with special attention to sports CO-2. Importance of camping & picnic in general & in specific to sportspersons



2024

2024

2024

## **BA (Journalism and Mass communication)**

### **Program Outcomes:**

1. To develop the communication skills, theoretical and practical knowledge among the students in Print, Electronic and New media.
2. The J& MC dept. committed to providing under graduate students with a quality education in the communication and Journalism disciplines that is current, relevant, practical and personal. The department's goals include enabling students who graduate to be able to compete successfully for positions at graduate schools nationwide. Another departmental goal is that students who graduate in communication will be prepared for entry level position as professionals within communication related fields. Students who graduate in journalism will be prepared for entry level positions as professionals within journalism and related fields.

### **Program Specific Outcomes:**

1. Students would be able to relate to the emerging trends in the fields of journalism.
2. Students would be able to analyze the various aspects of journalism with objectivity.
3. Students would be able to identify access and analyze the ideological issues related to journalism.
4. Students would be able to write a variety of mass media products, include news, stories, press releases and advertising copy, following accepted journalistic standards including associated press style. Students will be able to create and design emerging media products, including blogs and social media.

### **Course Outcomes**

<b>S.No.</b>	<b>Course Name &amp; Course Code</b>	<b>Course Type</b>	<b>Course Outcome</b>
<b>First Year</b>			
<b>1.</b>	Principle of Communication BJMCPAC101	Core	To increase student's knowledge and understanding of the Communication.
<b>2.</b>	Introduction to Radio and TV BJMCPAC102	Core	Students would be able to know about use of electronic media and also what are the advantages and disadvantages of both the media.
<b>Second Year</b>			
<b>3.</b>	Advertising and PR BJMCPAC201	Core	To understand the students to know about Advertising industry and Public Relation.
<b>4.</b>	New Media Communication BJMCPAC202	Core	New media is latest part of media. Now days it is very important to know about new media. Students would be able to

			know about new technologies of media.
5.	Reporting ,Editing and Feature Writing BJMCPAC203P	SEC	Students would be know about news, Reporting and how to write Press Releases etc.
6.	Skills for new media BJMCPAC204P	SEC	Students would be able to know how to use new media in practice. How to us blogs for Journalistic purposes.
<b>Third Year</b>			
7.	Community and Traditional Media BJMCPAD301	DSE	Community plays very important role to our life. Students would be able to know how community and traditional media related to each other.
8.	Introduction to Photojournalism BJMCPAD302P	DSE	Photography is very important field of Journalism. The goal of this paper is to tell about importance of Photography and how students make their carrier in this field.
9.	Communication Skills BJMCPAS303P	SEC	Communication is very important part of our life. Our communication skills show our whole personality. In this course students would be able to know the comm. skills and other skills to make our personality smart.
10.	Film Appreciation Slills BJMCPAS304	SEC	Films are the mirror of society. students would be able to know about films from silent era to present scenario.
11.	Media and Culture BJMCPAGE301	GE	How media influence our culture and relationship between about media and culture is a part of this paper.
12.	Introduction to Visual Communication BJMCPAGE302	GE	What is the power of visuals and how to use visuals in communication.

## B.A. (Education)

### Program Outcomes/ Program Specific Outcomes:

After Completion of the course the learner will be able to

- Understand the broader relationship between Education and society
- learner will be able understand the whole Educational set up our country
- to develop scientific attitude
- to understand not only the social milieu but will also be able to connect with it.
- to connect with his or her locale.
- to critically identify the problems existing in their locale
- to present solutions for these problems.
- to draw connection between various systems of Education.
- easily differentiate between various systems.
- apply the course knowledge in various social situations.
- use this knowledge in further courses.
- Understand the psychological basis of Education and learning.
- interpret the whole process of learning and
- enlist the causes which could hamper or enhance the learning
- design such strategy by which learning could be make more effective and enjoyable.
- develop professional attitude and will have professional knowledge about teaching learning skills.

### Course Outcomes

S.No.	Course Name & Course Code	Course Type	Course Outcome
<b>First Year</b>			
1.	Philosophical Foundations of Education EDN 101CC	Core	(a)Students will be able to understand the Philosophical background of Indian Education system. (b) They will be able to define and discuss various Indian schools of Philosophy. (c) They will be able to draw relationship between Education and Philosophy.
2.	Sociological Foundations of Education EDN 102CC	Core	(a)Students will be able to understand the Sociological background of Indian Education system. (b) will be able to define and discuss various Indian social system and its relationship with education.
<b>Second Year</b>			
3.	Psychological Bases of Education EDN 201CC	Core	(a)Students will be able to understand the Psychological background of Education. (b) They will be able to define and discuss

			various method of assessment in psychology. (c) They will be able to draw relationship between Education and Psychology.
4.	Development of Education in India EDN 202CC	Core	(a) Students will be able to understand the historical background of Indian Education system. (b) Will be able to define and discuss various systems of Education, existed in pre and post independence period in India.
5.	Yoga EDN 203 SEC	SEC	(a) Students will be able to understand the historical background Yoga system. (b) Will be able to define and discuss various forms of Yoga. (c) Will be able to enlist benefits of various forms of yoga on human personality.
6.	Life skills Education EDN 204 SEC	SEC	(a) Students will be able to understand the concept of life skills and will be able to discuss its importance in human life. (b) Will be able to define and discuss various forms of life skills. (c) Will be able to enlist benefits of various forms of life skills human personality.
<b>Third Year</b>			
7.	Educational Management EDN303DSE	DSE	(a) Students will be able to understand the concept of Educational Management and will be able to discuss its importance in Educational Institutions. (b) Will be able to define and discuss various forms of management. (c) Will be able to enlist benefits of time management, discipline for Educational Institutions.
8.	Inclusive Education EDN303DSE	DSE	(a) Students will be able to understand the concept of Inclusive Education and will be able to discuss its importance in current scenario. (b) Will be able to define and discuss various forms of Inclusiveness. (c) Will be able to enlist the various measures taken the government to bring inclusiveness in Indian Education
9.	Pedagogy of Education EDN301SEC	SEC	(a) Students will be able to understand the concept of Pedagogy of Education and will be able to discuss its importance in teaching and learning process. (b) Will be able to define and discuss various forms of Pedagogical approaches.

<b>10.</b>	ICT in Education EDN302SEC	SEC	(a)Students will be able to understand the concept of ICT in Education and will be able to discuss its importance in teaching and learning process. (b) Will be able to define and discuss various forms of ICT.
<b>11.</b>	Education For Peace EDN 305 GE	GE	(a) Students will be able to understand the concept of Peace in Education and will be able to discuss its importance in today's world. (b) Will be able to define and discuss various methods of peace practicing given by various philosophers and social reformers .
<b>12.</b>	Educational Thoughts and Practices EDN 306 GE	GE	(a) Students will be able to understand the concept of Education given by various educationists and will be able to discuss relevance of their Educational thoughts in today's world. (b) Will be able to define and discuss various approaches and systems of Education given by various philosophers and social reformers.

## Department of Vocational Studies (B.Voc.)

### **Program Outcomes:**

- To make it stress free for the students to find work as if this course binds theories with skill.
- To provide and insight into the subject as well as provide vocational skill set. This course fills the gap between theoretical learning and skill required by the industry.
- To produce the skilled man power for Organized Retail and Hospitality & tourism industry.
- B.Voc. course equips the students with the skill and knowledge of a specific field i.e. Retail Management and Hospitality and tourism management.
- To familiarize the students with future industrial demands and emulate their skill up to that extent.
- To provide them industrial experience through OJT after completion of every job role for one, two and four months as per the job role.
- To give them hands to enhance their decision making through practical applications.
- To make them viable with entrepreneurial skill with all challenges in present and possible changing trends in future businesses.
- To make students able to extend their practical potential in industries or to go for self employment.
- This course keeps pace with the dynamic global market and prepares students for the same.

**The department offers two courses viz. B.Voc.(Retail Management) and B.Voc.( Hospitality & Tourism)**

## **B.Voc. (Retail Management)**

### **Program Specific Outcomes:**

- To provide broader aspects of future retail sector through theories and relevant industrial training on a yearly basis till successful completion of course.
- To cater the future retail sector skill demand and to ensure that capable supply of manpower, retail management lays down basic and required job roles which help the students to draw a clear picture of their future career planning.
- Retail Management emphasizes on customer needs and wants, which is successfully done through customer relationship and behavior, for which one starts one's journey with basic sales associate role.
- Team leader is the one who anchors all for a common goal. Retail management adds this peculiarity in students through theories and OJT.
- Department Manager Job role places a ladder for higher learning, decision making and to get solution for problems independently.
- Store manager role finally equips students with multifaceted skills. It focuses on communication with stakeholders, higher management and worthy customer. This role specially emphasizes on emerging issues of futures retail sector and methods to meet them proficiently, a major focus is put on complex store problems and to seek a resolve to those.
- In every job role a specific period of On Job Training (OJT) is associated for a period of two to three months that varies with job role. OJT helps to raise the standard of skills to emulate students with industrial requirement.

## Course Outcomes

Sr. No.	Title of course	General/Skill component	Course code	Job role	Course Outcomes
1	Business communication & personality development	General component	RA111/ RA114	Sales associate	To enhance effective communication and develop overall personality to meet the industrial requirements.
2	Fundamentals in accounting and technology		RA112/ RA113		To make students understand the basic concept of accounting and information technology in line with industrial need.
3	Introduction to retail store operations ,health safety and security	Skill component	RA121/ RA125		To provide knowledge about retail environment in India. To make them familiar with different formats of retail.
4	Consumer buying behavior		RA122		To make students capable enough to deal with different consumer buying behavior. To expertise students for entire selling process.
5	Consumer service and customer relationship management		RA123		To make them aware with different sections of retail out let.
	<b>OJT(On Job Training)</b>				<b>One Month practical training in relevant industry.</b>
6	Store display and Visual Merchandising	Skill component	RA221	Team leader	To enable the student to perform all activities pertaining to store display and visual merchandising processes.
7	Sales management & customer experience management		RA224		To make students perfect in sales management and customer handling.
8	Organization and team dynamics		RA223		To make them understand how to lead, handle and motivate the team and how to deal with interpersonal relationships within team.
	<b>OJT(On Job Training)</b>				<b>One Month practical training in relevant industry.</b>
9	Communicative English	General component	RA311	Department manager	To raise the communicative level of the students and make them proficient in English.
10	Store operations and supply chain		RA312		To instill in the students the ethic to run an enterprise in harmony with nature without natural hazards.
11	Environment science		RA411		To demonstrate an understanding of key terms, theories/concepts and practices with in the field of HRM.
12	Human Resource Management		RA412		

13	Retail store operation and profit management	Skill component	RA323		To make them understand the roles and responsibilities of department manager. To instill such qualities in the students so that they become viable to achieve profit maximization. To make students able to resolve complex managerial problems and interpersonal conflicts with it team.
14	Customer exercise management	Skill component	RA322	Store manager	
15	Understanding Leadership		RA324		
16	Team and organizational dynamics		RA325		
	<b>OJT(On Job Training)</b>				
17	Marketing management	General component	RA511	Store manager	To understand the concepts of marketing management. To make them ready to work in retail environment with proper ethics and corporate responsibility.
18	Business statistics		RA512		
19	Ethics and corporate social responsibility		RA611		
20	Retail environment		RA612		
21	Process compliance and safety and security	Skill component	RA553/556	Store manager	To equip them with all the skills pertaining to retail store manager. To make them aware with the health, safety, security rules at work place. To make them capable enough to run retail store at individual responsibility and accountability. To train them how to communicate with higher management, stake holder, suppliers and worthy customer.
22	Retail store operations and sales		RA552/555		
23	People, process and profitability management		RA658/654		
	<b>OJT(On Job Training)</b>				

## **B.Voc. (Hospitality & Tourism)**

### **Program Specific Outcomes:**

- The students get knowledge to manage and evaluate functional system in lodging operations.
- The knowledge to manage the professional preparation and service of quality food.
- After the completion of different job roles students become able to get job in respect of their job roles like Front office Associate, Front office Executive, Guest relation Manager and Deputy Manager in Hospitality industry.
- More emphasis is given to the students hand on skills and On Job Training (OJT) according to their different job roles
- Students will demonstrate the ability to develop, examine and explore perspectives or alternatives to problems in hospitality operations.
- Students will demonstrate the effective communication skills and technology to successfully communicate.
- Students equip with awareness, understanding and skills necessary to live and work in a diverse world.
- Practice professional, ethics, provide leadership, and demonstrate personal and global responsibility and work effectively as team member.

### Course Outcomes:

Sr. No.	Level	Job Roles	Year	Specific Outcomes
01	4 & 5	Front Office Associate & front office Executive	1 <sup>st</sup> Year	<p><b>Specific Outcomes of Front office Associate/ Front Office Executive:-:</b> on the completion of front office associate/ front office Executive job role, student should be able to:</p> <ol style="list-style-type: none"> <li>1. Demonstrate the basic skill of front office in hotel industry.</li> <li>2. Maintain guest Records and get details of guests for registration</li> <li>3. Record guest details for check- in procedure and allot room to the guest.</li> <li>4. Know about the importance of quality standards.</li> <li>5. Handle check out of guest.</li> <li>6. Handle the guest queries.</li> <li>7. Perform cashiering activities , communicate with customer and colleagues</li> <li>8. Maintain health, hygiene and safety at work place.</li> <li>9. Maintain standard of etiquette and hospitable conduct.</li> <li>10. Learn about various modes of payments.</li> <li>11. Know about night audit.</li> <li>12. Solving credit problems while payment.</li> <li>13. Know about the settlement of final bill.</li> <li>14. Understand the importance of body language.</li> <li>15. Understand tourism oriented services.</li> <li>16. On job training enhance student's skills to get more opportunity of employment.</li> <li>17. Learn the concepts and skills necessary to achieve guest satisfaction.</li> </ol>
02		On Job Training for 01 Month in 4 <sup>th</sup> & 5 <sup>th</sup> each level		On job training to students in each level for 01 month in the Hospitality Industry which provide them Practical Knowledge.
03	06	Guest Relation Manager	2 <sup>nd</sup> Year	<p><b>Specific Outcomes Guest Relation Manager:-</b> On the completion of Guest Relation Manager job role, student should be able to:</p> <ol style="list-style-type: none"> <li>1. Understand the concept of Front office operations.</li> <li>2. Understand the segments of Hospitality Industry.</li> <li>3. Learn about the overview of Hotel Industry.</li> <li>4. Understand Guest Arrival Procedure and</li> </ol>

				<p>learn about registration process.</p> <ol style="list-style-type: none"> <li>5. Know the rules and regulation of the hotel for the guests.</li> <li>6. Understand how to handle customer complaint and learn how to resolve the complaints.</li> <li>7. Understand the importance of customer satisfaction.</li> <li>8. Know about the software usage for the reservation.</li> <li>9. Understand how to follow personal hygiene practices</li> <li>10. Learn about the SOP and about IPR and copyright clauses.</li> </ol>
04		On Job Training for 04 Months		On job training to students for 04 months in the Hospitality Industry which provide them Practical Knowledge.
05	07	Deputy Manager	3 <sup>rd</sup> Year	<p><b>Specific Outcomes of Deputy Manager: - On the completion of Deputy Manager job role, student should be able to:</b></p> <ol style="list-style-type: none"> <li>1. Communicate effectively with all departments.</li> <li>2. Maintain Liaison between various departments of hotel.</li> <li>3. Help accounts department with budget creation.</li> <li>4. Arrange and distributes and assignments and schedules.</li> <li>5. Assist in the hiring process for the department.</li> <li>6. Plays a vital role throughout the guest cycle.</li> <li>7. Monitor the security systems.</li> <li>8. Strategic planning for routine work of the property.</li> <li>9. Guest Management.</li> <li>10. Plays an important role in marketing activities and revenue management of the property.</li> </ol>
06		On Job Training for 04 Months		On job training to students for 04 months in the Hospitality Industry which provide them Practical Knowledge.

**Hospitality and Tourism also includes the General Components as per below details:**

<b>Sr. No.</b>	<b>Level</b>	<b>Semester</b>	<b>Year</b>	<b>General Subject</b>	<b>General Subject Outcomes</b>
01	04	1 <sup>st</sup>	1 <sup>st</sup> Year	Learning a foreign or English	Will understand the grammatical importance of language and helps to understand the use of language in resume writing, applications preparing formats.
				Introduction to tourism Aviation, Hospitality Industry	After studying the course students will understand the basic concepts of tourism and hospitality industry and terminologies that are being used in the tourism industry.
02	05	2 <sup>nd</sup>		Tourism Product	The students will understand the basic characteristics and types of tourism products and helps to understand the tourism resources and attractions and basic factors while making tourism packages and products.
				Communicative English for tourism and Hospitality	Students will able to understand the importance of communication in Hospitality and Tourism. Learn importance of various forms and formal communication in organizations in tourism and travel.
03	06	3 <sup>rd</sup>	2 <sup>nd</sup> Year	Basic of Tourism research	Students will understand the importance of research in the field of tourism and understand the research process and data collection methods and project report submission.
				Basic of Tourism Management	Students will understand the basic concepts and processes of management and learn managerial skills, competencies and roles and responsibilities of managers.
				Travel Agency Management operations	Will understand the working of travel agency in tourism operations and learn about the various TA's Profile of like MMT, Yatra.com, Goibibo etc.
				Environment Science	Will able to recognize the physical, chemical and biological components in the Hospitality industry.

## **BACHELOR OF COMPUTER APPLICATIONS (BCA)**

### **Programme Outcomes/ Programme Specific Outcomes**

- To expose the students to the basic concepts of information Technology.
- To equip the students with practical knowledge and give hand on experience to them.
- Students study the design, development and analysis of software and hardware used to solve problems.
- To understand the importance of database management and using it purposefully.
- To make students aware of the benefits of data storage and create awareness of new trends in database management system.
- To understand and make use of the programming languages like C, C++ and understand the concept of file handling.
- To understand and make use of the programming languages easily and use it purposefully.
- To understand the concepts of operating systems like Windows and DOS.
- To make students understand the long run data issues like growth and technical progress.
- To acquire good Computer Science jobs and develop skills so as to develop Critical thinking.
- Equip themselves to potentially rich & employable field of computer applications.
- Pursue higher studies in the area of Computer Science/Applications.
- Take up self-employment in Indian & global software market.
- Meet the requirements of the Industrial standards.

At the end of the three-year BCA programme the students will be able to:

- Understand, analyze and develop computer programs in the areas related to algorithm, web design and networking for efficient design of computer based system.
- Work in the IT sector as system engineer, software tester, junior programmer, web developer, system administrator, software developer etc.
- Apply standard software engineering practices and strategies in software project development using open source programming environment to deliver a quality of product for business success.

### First Year (1st semester)

S.No	Subject Code	Subject Title	Subject Category	Course Outcome
1	BCA0101	Mathematics-I	Core	To develop logical reasoning among students Differentiation matrices coordinate geometry
2	BCA0102	Applied English	Core	Mastering the art of a professional business presentation
3	BCA0103	Computer Fundamentals	Cor	To explain Basics of fundamental concepts of the Computers.
4	BCA0104	C Programming	Core	To learn he concepts of Procedural programming language.
5	BCA0105	Office Automation Tools	Core	To learn MS Word, Ms PowerPoint, Ms Excel and DOS.
6	BCA0104(P)	C Programming Lab-I	Practical	To learn coding in C language.
7	BCA0105(P)	Office Automation Tools Lab-II	Practical	To learn practical implementation of office automation tools

### First Year (2nd Semester)

S.No	Subject code	Subject Title	Subject Category	Course Outcome
1	BCA0201	Mathematics-II	Core	To make students understand the concepts of Group ring, number system and theorems of Mathematics
2	BCA0202	Communicative English	Core	To make students aware of secretarial skills
3	BCA0203	Digital Electronics	Core	To make students understand the concepts of, memory, registers, counters
4	BCA0204	Data Structures	Core	To make students aware of concepts of data types and its algorithm Implementation using programming.
5	BCA0205	Data Base Management System	Core	To make students aware of concept of data and its management.
6	BCA0204(P)	Data Structures Lab-III	Practical	To make students perform practical in programming language
7	BCA0205(P)	Data Base Management System Lab-IV	Practical	To the learn the concept of MS Access

### Second Year (3rd semester)

S.No	Subject Code	Subject Title	Subject Category	Course Outcome
1	BCA0301	Mathematics-III	Core	To learn Second order differentiation, complex numbers and galios field.
2	BCA0302	Business Practices and Management	Core	To make students aware of business management
3	BCA0303	Computer Organization	Core	given an introduction to digital computer and their fundamental architectures and their internal structure as well as the usage..
4	BCA0304	Object Oriented Programming with C++	Core	To simulate the problem with real world problem using Object Oriented Programming
5	BCA0305	Desktop Publishing and Designing	Core	The course makes students learn photoshop and PageMaker concepts
6	BCA0304(P)	Object Oriented Programming with C++ Lab-V	Practical	The outcome of the course is the practical implementation of C++
7	BCA0305(P)	Desktop Publishing and Designing Lab-VI	Practical	The course makes students learn the practical implementation of software like adobe photo shop and PageMaker

### Second Year (4th Semester)

S.No	Subject Code	Subject Title	Subject Category	Course Outcome
1	BCA0401	Personnel Management	Core	To understand Human ResourcePlanning its Meaning, objectives and importance of HRM, Job Analysis andDesign
2	BCA0402	Accounting	Core	To make students aware of objects of Accounting, Accounting Principles, Accounting concepts and Conventions
3	BCA0403	System Analysis and Design	Core	The students learn the concepts of SDLC
4	BCA0404	Internet Technology & Web Page Design	Core	The course enable the students learn basic concepts of internet technologies
5	BCA0405	Programming in Visual Basic	Core	The outcome of the course is to learnconcepts of front end and back end
6	BCA0404(P)	Internet Technology & Web Page Design Lab-VII	Practical	The course enable the students learn practical implementation using HTML tags
7	BCA0405(P)	Programming in Visual Basic Lab-VIII	Practical	This course helps students to learn practical implementation of Visual Basic

### Third Year (5th Semester)

S.No	Subject Code	Subject Title	Subject category	Course Outcome
1	BCA0501	Operating System	Core	The outcome of the course is to make students know about system software
2	BCA0502	ecommerce	Core	To study various business models
3	BCA0503	Management Information System	Core	The outcome of the course is to make students aware information system and its management
4	BCA0504	ASP.net Technologies	Core	The outcome of the course is to develop active server pages
5	BCA0505	Computer Oriented Statistical Methods	Core	The provide overview of computer oriented statistical methods
6	BCA0504(P)	ASP.net Technologies Lab-IX	Practical	To make students do practical using Visual basic
7	BCA0505(P)	Computer Oriented Statistical Methods Lab-X	Practical	To learn to calculate mean ,mode median

### Third Year (6th Semester)

S.No	Subject Code	Subject Title	Subject category	Course Outcome
1	BCA0601	Computer Networks	Core	Networking protocols and to analyze the services and features learn networking and components required in it.
2	BCA0602	Numerical Methods	Core	To introduce students to Bisection methods, gauss elimination method Simpson 1/3 rule.
3	BCA0603	Multimedia Technology	Core	The outcome of the course is to introduce students to new emerging technologies and animation techniques.
4	BCA0604	Computer Graphics	Core	To introduce students to learn graphic designs.
5	BCA0605	Software Engineering	Core	To make students understand software engineering methodologies.
6	BCA0604(P)	Computer Graphics Lab-XI	Practical	To learn to implement graphics using languages like C and C++.
7	BCA0606	Major Project	Practical	Enhance development of different software and live projects.

## POST GRADUATE DIPLOMA OF COMPUTER APPLICATIONS (PGDCA)

### **Programme Specific Outcomes**

The Post Graduate Diploma in Computer Application Programme will prepare its graduates to achieve:

1. Equip themselves to potentially rich & employable field of computer applications.
2. Meet the requirements of the official/Industrial standards.
3. The understanding to apply knowledge of computing and technological advances appropriate to the programme .
4. Skills to analyse a problem, and identify and define the logical modelling of solutions.
5. An ability to design, implement and evaluate a computer-based system, process, component, or programme to meet stakeholder needs.
6. The knack to function effectively in teams to accomplish a common goal.
7. A sense of professional, ethical, legal, security and social issues and responsibilities.
8. Effectiveness in communicating with a wide range of audiences.
9. An ability to analyse the local and global impact of business solutions on individuals, organizations, and society.
10. An identification of the need to engage in continuing professional development

## Course Outcomes

### SEMESTER –I

Sr. No.	Course Code	Paper	Subject Category	Outcome
1.	DCS-101	Fundamentals of Programming Using C	Core	To learn the concepts of Procedural programming language.
2.	DCS-102	PC Software	Core	To learn basic of Computers ,Ms Word, Ms PowerPoint, Ms Excel and DOS.
3.	DCS-103	Operating system	Core	The outcome of the course is to make students know about system software
4.	DCS-104	Computer Organization and Architecture	Core	given an introduction to digital computer and their fundamental architectures and their internal structure as well as the usage..
5.	DCS-105	Practical-I ( C Language)	Practical	To learn coding in C language.
6.	DCS-106	Practical-I I (PC Software)	Practical	To learn practical implementation of office automation tools

### SEMESTER –II

Sr. No.	Course Code	Paper	Subject Category	Outcome
Sr. No.	DCS-201	Data and File Structure	Core	To make students aware of concepts of data types and its algorithm Implementation using programming.
1.	DCS-202	System Analysis and Design	Core	The students learn the concepts of SDLC and basics of software development.
2.	DCS-203	Object Oriented Programming & C ++	Core	To simulate the problem with real world problem using Object Oriented Programming
3.	DCS-204	Data base Management system	Core	To make students aware of concept of data and its management.
4.	DCS-205	Practical-III (DFS Using C ++)	Practical	Practical implementation of algorithm with C++
5.	DCS-206	Practical-IV (Data base Management system)	Practical	To the learn the concept of MS Access and Oracle.
6.	DCS-207	Project Work	Project	Enhance development of different software and live projects

## Bachelor of Business Administration (BBA)

### Program Outcomes

- ❖ To Enables students to apply knowledge of management theories, concepts, principle and practices to solve business problems.
- ❖ To Promotes ethical and value-based leadership ability.
- ❖ To Encourages analytical and critical thinking abilities for business decision making.
- ❖ To Makes students capable of recognizing and resolving ethical issues.
- ❖ To enhance communication skills, Interpersonal Skill and personality development.
- ❖ To familiarize students with Global Environment and its Impact on Business.

### Programme Specific Outcome

- ❖ Ability to define, analyse the solutions for different business problems
- ❖ Provides Data analysis, Interpretation, Quantitative and communication skills to solve specific business problems and decision making.
- ❖ Apply ethical principles and commitment towards professional ethics and responsibility.
- ❖ Function effectively as a manger, leader, individual or group in business environment.
- ❖ Ability to conceptualize a complex issue into a coherent written statement and oral

### Course outcome

Sr. No	Course Code	Sem.	Course Name	Outcomes
1.1	101	1 <sup>st</sup>	Environmental Science	<ul style="list-style-type: none"><li>❖ Provides basic awareness on environment and Environmental Protection Act, 1986.</li><li>❖ Helps to motivate students to find out unique solutions for environmental problems and create awareness.</li></ul>
1.2	102	1 <sup>st</sup>	Fundamental of Management & Organizational Behaviour	<ul style="list-style-type: none"><li>❖ Familiarize students with concepts and principles of management.</li><li>❖ Demonstrates comprehensive and accurate knowledge and understanding of various areas of management.</li><li>❖ Provides with the logic and working of</li></ul>

				organizations and outlines the major function of business organisation
1.3	103	1 <sup>st</sup>	Statistics for Business Decisions	<ul style="list-style-type: none"> <li>❖ Appraise the need for data analysis and formulate the statistical problem and solve it.</li> <li>❖ Interpret the results of statistical analysis for improved managerial decision making.</li> </ul>
1.4	104	1 <sup>st</sup>	Entrepreneurship Development	<ul style="list-style-type: none"> <li>❖ Encourages analytical and critical thinking abilities for business decision making.</li> <li>❖ Helps to prepare students for managerial roles and as entrepreneurs.</li> </ul>
2.1	201	2 <sup>nd</sup>	Business Communication (Language : English /MIL )	<ul style="list-style-type: none"> <li>❖ Ability to write error free while making an optimum use of correct Business Vocabulary &amp; Grammar.</li> <li>❖ Distinguish among various levels of organizational communication and communication barriers.</li> </ul>
2.2	202	2 <sup>nd</sup>	Managerial Economics	<ul style="list-style-type: none"> <li>❖ Understand the roles of managers in firms</li> <li>❖ Analyze the demand and supply conditions and assess the position of a company</li> </ul>
2.3	203	2 <sup>nd</sup>	Business Accounting	<ul style="list-style-type: none"> <li>❖ Give an insight to various basic aspects of Accounting</li> <li>❖ To enable them understand single entry system, accounting procedure maintenance of subsidiary books and final accounts.</li> </ul>
2.4	204	2 <sup>nd</sup>	Ethics & Corporate Social Responsibility	<ul style="list-style-type: none"> <li>❖ Understanding CSR, Ethical and Sustainable Business Practices</li> </ul>

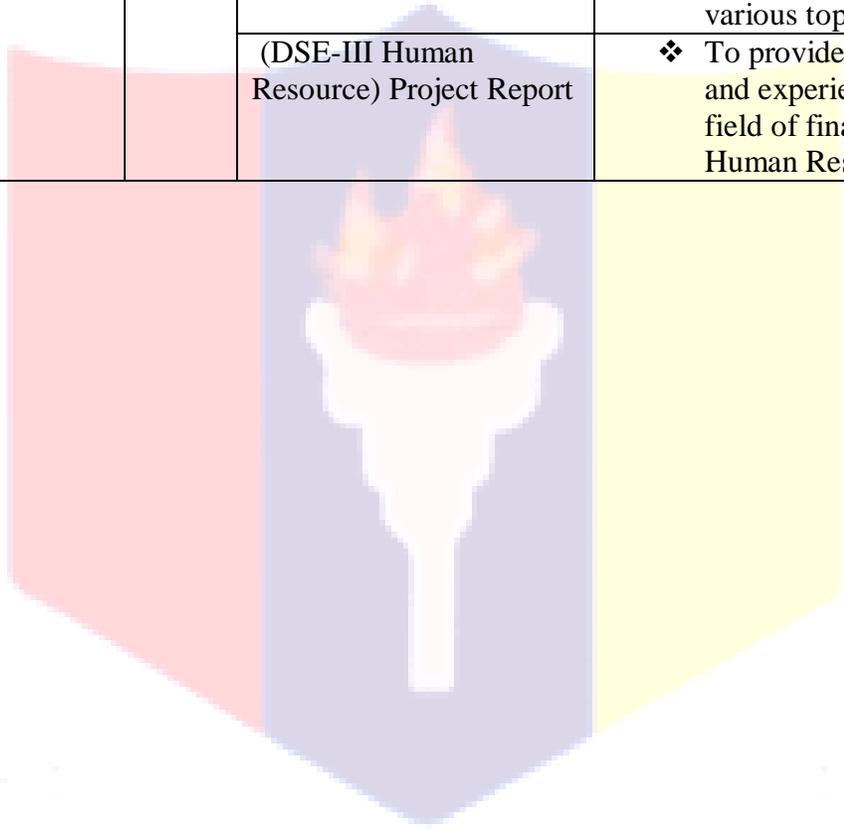
3.1	301	3 <sup>rd</sup>	Macroeconomics	<ul style="list-style-type: none"> <li>❖ Understanding economy-wide phenomena such as inflation, price levels, rate of economic growth, national income, gross domestic product (GDP), and changes in unemployment.</li> </ul>
3.2	302	3 <sup>rd</sup>	Principles of Marketing	<ul style="list-style-type: none"> <li>❖ Enables students to understand the concept of marketing and the recent innovations in marketing</li> <li>❖ Understand core concepts of marketing and the goals of the Marketing function</li> </ul>
3.3	303	3 <sup>rd</sup>	Management Accounting	<ul style="list-style-type: none"> <li>❖ Understanding of various concepts of costs</li> </ul>
3.4	304	3 <sup>rd</sup>	India's Diversity & Business	<ul style="list-style-type: none"> <li>❖ Understand the bases of India's diversity and its linkages with the people, livelihood, occupational diversity and socio-economic challenges.</li> </ul>
3.5	305	3 <sup>rd</sup>	Personality Development & Communication Skills	<ul style="list-style-type: none"> <li>❖ Aims to improve the employability skills of students and enhance the quality of life style of students contributing towards improving their personality.</li> </ul>
4.1	401	4 <sup>th</sup>	Business Research	<ul style="list-style-type: none"> <li>❖ Introduces the basics of business research and impact of research in business</li> <li>❖ Gives an insight on the process of research, various tools and tools of research.</li> </ul>
4.2	402	4 <sup>th</sup>	Human Resource Management	<ul style="list-style-type: none"> <li>❖ To make students understand the concepts of Personnel Management.</li> <li>❖ Imparts knowledge on various aspects of Human</li> </ul>

				Resource Management.
4.3	403	4 <sup>th</sup>	Financial Management	<ul style="list-style-type: none"> <li>❖ Provides insight on time value of money and various managerial decisions such as financial, investment and dividend decisions and importance of working capital management</li> <li>❖ It helps students understand the basic concepts of Financial Management in decision making related to business.</li> </ul>
4.4	404	4 <sup>th</sup>	Tax Planning	<ul style="list-style-type: none"> <li>❖ Introduces students to the basic concepts of Income Tax like Assessment year, previous year, cannons of taxation and Gross Total Income</li> <li>❖ Briefs on computation of income from salary, Income from house property, profits and gains from business and profession and computation of total income and various deductions and exemptions</li> </ul>
4.5	405	4 <sup>th</sup>	IT Tools in Business	<ul style="list-style-type: none"> <li>❖ Helps understand about information system used in business.</li> <li>❖ Provides knowledge of computers related to MS office, tally, DBMS required for everyday transactions of business.</li> </ul>
5.1	501	5 <sup>th</sup>	Quantitative Techniques for Management	<ul style="list-style-type: none"> <li>❖ Resolve the equations related to linear programming</li> <li>❖ Analyze the decision making problems under uncertainty and competitive situation</li> </ul>

5.2	502	5 <sup>th</sup>	Legal Aspects of Business	<ul style="list-style-type: none"> <li>❖ Analyze contract and define the business transactions as valid contracts.</li> <li>❖ Develop the idea of sale, distinguish sale and agreement to sell and can explain conditions and warranties</li> <li>❖ . Identify critical issues of partnership business and can recognize rights and duties of partner</li> </ul>
5.3	503	5 <sup>th</sup>	(DSE-I Finance) Investment Banking & Financial Services	<ul style="list-style-type: none"> <li>❖ Describe operational, business, financial and traditional risk.</li> <li>❖ Distinguish among various financial intermediaries and markets.</li> </ul>
			(DSE-II Marketing) Consumer Behaviour	<ul style="list-style-type: none"> <li>❖ Identify factors which influence consumer behaviour</li> <li>❖ Helps understand about internal dynamics such as personality, perception, learning motivation and attitude to the choices consumers make.</li> </ul>
			(DSE-III Human Resource) HRD: Systems and Strategies	<ul style="list-style-type: none"> <li>❖ To develop the understanding of the concept of human resource management</li> <li>❖ To analyse the strategic issues and strategies required to select and develop manpower resources.</li> </ul>
5.4	504	5 <sup>th</sup>	DSE-I Finance) Investment Analysis & Portfolio Management	<ul style="list-style-type: none"> <li>❖ To understand the impact financial investments like stocks, bonds, commodities, cash, and cash equivalents, including closed-end funds and exchange</li> </ul>

				traded funds.
			(DSE-II Marketing) Retail Management	<ul style="list-style-type: none"> <li>❖ To understand the impact of retailing on the economy.</li> <li>❖ To comprehend retailing's role in society and, conversely, society's impact on retailing.</li> <li>❖ To know the responsibilities of retail personnel in the numerous career positions available in the retail field</li> </ul>
			(DSE-III Human Resource) Training and Management Development	<ul style="list-style-type: none"> <li>❖ To know about training and development program for employees and its benefits</li> </ul>
6.1	601	6 <sup>th</sup>	Business Policy & Strategy	<ul style="list-style-type: none"> <li>❖ Analyze strategy implementation alternatives for effective decision making.</li> <li>❖ Understand the strategic requirements and correlation between business plans with strategic plans..</li> </ul>
6.2	602	6 <sup>th</sup>	Financial Institutions & Markets	<ul style="list-style-type: none"> <li>❖ Exposes the students to existing law and practice of banking in India.</li> </ul>
6.3	603	6 <sup>th</sup>	(DSE-I Finance) Project Appraisal & Analysis	<ul style="list-style-type: none"> <li>❖ To understand are the events, occurrences, or changes in conditions, behaviour, or attitudes that indicate progress toward a project's goals.</li> </ul>
			(DSE-II Marketing) Distribution & Supply Chain Management	<ul style="list-style-type: none"> <li>❖ Analyze strategy implementation alternatives for effective decision making in distribution</li> </ul>
			(DSE-III Human Resource) Performance and Compensation	<ul style="list-style-type: none"> <li>❖ To know the regulatory bodies and various incentive schemes of</li> </ul>

			Management	wage payment
6.4	604	6 <sup>th</sup>	DSE-I Finance) Project Report	❖ To provide knowledge and experience in the field of finance with various topic.
			(DSE-II Marketing) Project Report	❖ To provide knowledge and experience in the field of marketing with various topic.
			(DSE-III Human Resource) Project Report	❖ To provide knowledge and experience in the field of finance with Human Resource topic.



## B.Sc. Biotechnology

### Program Outcomes

- Apply knowledge and skill in the design and development of solutions for problems relevant to modern biology to cater the needs of biotechnology industries.
- Become professionally trained in the area of molecular biology, RDT, microbial technology, animal and plant tissue culture, bioinformatics etc.
- Excel in the research related to biotechnology and quality control of biological.

### Program Specific Outcomes

- To develop strong student competencies in Biotechnology and its application in a technology - rich, interactive environment.
- To develop strong student skills in research, analysis and interpretation of problems and information relevant to modern biology.
- To prepare the students to successfully compete for employment in Biotechnology, manufacturing sector and teaching.

### Course Outcomes

S.No	Subject Code	Subject Name	Subject Category	Course Outcome
B.Sc. 1st year				
1	BIOTECH1C01	Biochemistry and Metabolism	Core course	To introduce the students to the basics of biochemistry and learn about various biochemical and metabolic pathways.
2	BIOTECH1C02	General Microbiology	Core course	To introduce the students to the basics of microbiological technique.
3	BIOTECH1C03	Genetics	Core course	To introduce the students to the basic of heredity, cytogenetics, genetic disorder.
4	BIOTECH1C04	Molecular biology	Core course	The subject

				provides the students to with an understanding biology at molecular level.
5	MICRO1GE01	Cell Biology	G.E.1	By understanding how cell works students get a detailed knowledge of the various mechanism on which living being works.
B.Sc. 2 <sup>nd</sup> year				
6	BIOTECH2CO5	Immunology	Core course	Demonstrate the basic knowledge of immunological processes at a cellular and molecular level.
7	BIOTECH2CO6	Bioprocess Technology	Core course	To acquaint students with technical and biological aspects of microbial utilization for production of metabolites.
8	BIOTECH2CO7	RDT	Core course	An understanding on application of genetic engineering techniques in basic and applied experimental biology.
9	BIOTECH2CO8	Environment Biotech	Core course	The major outcome to study the environmental biotechnology is to understand the current application of biotechnology to environmental quality evaluation, monitoring and remediation of contaminated environments.
10	BIOTECH2CO9	Bacteriology and Virology	Core course	To give students information about the structural and physiological

				details of bacterial cell and viruses.
11	BIOTECH2C10	Microbial Physiology	Core course	The subjects give students an insight in to the physiology of microbial world.
12	BIOTECH2SEC01	Enzymology	SEC	To introduce the students about enzymes and their application.
13	BIOTECH2SEC03	Biofertilizers and Bio-Pesticides	SEC	Explain the importance of supplements the requirements of fertilizers and do not replace them.
14	MICRO2GE03	Bio-Analytical tool	SEC	It gives the students, detailed information about the working of and instrumentation of various instruments used in biotechnology.
<b>B.Sc. 3<sup>rd</sup> year</b>				
15	BIOTECH3C11	Animal Biotechnology	Core course	Students should be able to gain strong understanding on animal based cell cultures system.
16	BIOTECH3C12	Plant Biotechnology	Core course	Apply the technical skills learnt to establish nurseries for horticultural and agricultural crops.
17	BIOTECH3C13	Medical Microbiology	Core course	This course provides learning opportunity in basic principles of medical microbiology and infectious diseases.
18	BIOTECH3C14	Food Biotechnology	Core course	To introduce the students to application of biotechnology in food industry and

				make aware about various fermentation products.
19	BIOTECH3DSE03	Ecology & Env Management	DSE	Define the basic rules and concepts of the ecology science, define the ecology of individual, population, community and ecosystem.
20	BIOTECH3DSE04	Biosafety and IPR	DSE	Identify different types of intellectual properties, the right of ownership, scope of protection as well as the ways to create and to extract value from IP.
21	BIOTECH3DSE05	Basic of Forensic Science	DSE	The detail study will help to understand about the basics and different branches of forensic sciences. Will help to know about the working and functioning of forensic science laboratories.
22	BIOTECH3DSE06	Molecular Diagnostic	DSE	Explain the process of DNA sequencing. Describe chromosomal structure. Explain how genetic principles apply to the transmission of diseases.

## **Bachelor in Tourism and Travel Management (BTTM)**

### **Program Outcome:**

**Course Objective:** This course has been specially designed to impart professional education in the global tourism sector. The possibility in travel and tourism industry is endless for this reasons we have selected range of job roles within each sector to assist. This course provides vocation in different segments in tourism and travel operations and helps to get jobs at various entry level jobs in tourism sector of not only in India and at global tourism scenario. Tourism is the only industry that is in boom to provide job opportunities other skilled human resource. All the governments within the states around India is working to develop tourism infrastructure and services and also giving away out to students for employment by designing a course curriculum specially designed to produce skilled human resource that works to develop tourism infrastructure and to render their services in tourism industry.

**Career path in the Travel Industry:** The travel and tourism industry has a variety of sectors that include retail travel, wholesale, travel visitor information, tour operators, cruising, transportation, events and services. Students after completing the course study will have various opportunities in different department of tourism sector in India and at global levels. Some of the entry level jobs opportunities area viable in Travel Agencies Operations, Tour Operators Business, Airlines, Ticketing, Cargo, Tourism Information Centers, Hospitality Operation Guides and Escorts Centers and also in Training and education to generate skilled human resources. The course also provides various opportunities to get enrolled for the Higher Studies from the renowned universities that provides higher studies in the fields of tourism and Hospitality. They can go for further Master Degree Programmes like MTTM (MBA in Tourism and Travel Management).

**Learning Outcome for the Students:** Helps to understand the various concepts of Management Techniques, Leadership Development Camp (LDC) and Event Management Training Programs (EMT). On the Job Training (OJT) Department of Tourism Studies organizes World Tourism Week in the month of September Every Year. After completion of

Degree Course students will be skilled and trained to actively get entry level jobs in the field of Tourism and Hospitality.

### **Courses Outcome of Bachelor in Tourism and Travel Management (BTTM):**

Sr. No.	Course Code	Course Title	Outcome
1	BTTM-1-01	Basics of Tourism	This course helps in understanding the basic concepts and terminology about the tourism sector.
2	BTTM-1-02	Basics of Management	Enhance the ability of student to understand the concept of management, functions and managerial responsibilities.
3	BTTM-1-03	Communication skills	Enhance the importance of communication and to understand the various forms of communication and formal communication in a organizations.
4	BTTM-1-04	Tourism Resources of North and East India	Helps in understanding the India and Indian States and various Tourism Resources and Tourism Infrastructures and tourist attractions in North and Eastern states of India
	Audit Pass	BBA in Tourism and Travel Management (ENVS2AECC02) Environment Science	Helps to understand the Environment and various environmental issues and impacts,
5	BTTM-2-05	Introduction to statistics	Helps in understanding the concepts of statistics and role of stats in business.
6	BTTM-2-06	Tourism Product of Himachal Pradesh	Enhance the ability to understand the Tourism, Geography, cultural resources and tourism attractions and infrastructure and Tourism Geography of the Native state.
7	BTTM-2-07	Tourism Marketing and Promotion	Helps in understanding the meaning and importance of

			Marketing and also to understand the concept of Tourism marketing and latest trends in marketing of tourism Product and attractions.
8	BTTM-2-08	Travel Agency and Tour Operations	Helps to understand the role of Travel Agencies and Tour Operators and Their functioning while delivering their services to the Tourists during their course of Travel.
9	BTTM-2-09	Basics of Computers	Helps to understand the Role of Computers in Tourism Sector and in various Organizations and to understand the Operating System Like AMADUS and GALELIO in e-ticketing and about CRS and MIS in tourism
10	BTTM-3-10	Hotel Operations	Helps to understand the Hotels and Their Classification, Departments, Job Roles in Hotels and Current trends and Hospitality Industry.
11	BTTM-3-11	Tourism Resources of West and South India	Helps in understanding the India and Indian States and various Tourism Resources and Tourism Infrastructures and tourist attractions in West and Southern states of India
12	BTTM-3-12	Elementary Financial Management and Accounting	To understand the various Financial concept and about various financial organizations to boost up tourism activities and to enhance tourism development at national level.
13	BTTM-3-13	Tourism Geography and Map Work	Helps and increase the knowledge to read the world map and national

			map
14	BTTM-3-14	Report of LDC (Leadership Development Camp)	Leadership Development Camp is one of the major activities for the student they understand the leadership and skills and understand the adventure sports and tourism operations going at various tourism spots.
15	BTTM-4-15	Outbound Tourism	Understand the Outbound Tourism Market and Inbound Tourism Market and Tourist statistics
16	BTTM-4-16	Tourism Impacts	Helps the students to understand the various impacts due to tourism at particular destination like Environment, Economic and Socio-Cultural Impacts due to tourism
17	BTTM-4-17	Tourism and Environmental Studies	Helps to understand the various issues and remedies to sustain our environment and enhance the knowledge about various International environment summits and various acts and laws of environment and forest, air, water conservation.
18	BTTM-4-18	Itinerary preparation and costing	Helps to understand the concept of Itinerary and Its types how they are designed and about the major factors that should be kept in mind while preparing Itineraries.
19	BTTM-4-19	Event Management Training	Helps to understand the various phases while organizing and managing a particular event.
20	BTTM-5-20	Basics of Research	Helpful to the students in understanding the research and research process and various data collection techniques and various

			methods of interpretations and how to prepare research report.
21	BTTM-5-21	Global Tourism	Helps to understand the global tourism movement i.e to understand the Outbound tourism market for India and to understand the countries statistics about the global tourism movements of outbound tourist's and the purpose of visit.
22	BTTM-5-22	Economics of Tourism	To understand the basic concepts of economics and various concepts related to tourism economics.
23	BTTM-5-23	Ticketing and Transportation	Helps to understand the e-ticketing concept and IATA organization and various IATA codes that are being used while making e-ticketing or airlines ticketing and helps the students to understand the global airlines codes
24	BTTM-5-24	Project Report on Research	The students are being assigned the small research projects so that they can understand the research process as a whole.
25	BTTM-6-25	Trade Related Issues and Frontier Formalities	This course helps and understand the students about the cross border formalities and Knowledge about basic documents like VISA, PASSPORT, FOREX etc.
26	BTTM-6-26	Organization Behaviour	Helps to understand the behavior of the employee, organization charts and various Leadership styles and skills and work culture and concept of organizational change.
27	BTTM-6-27	Government and Tourism	Helps to understand the

			role of government in promoting tourism and various schemes and tourism policies
28	BTTM-6-28	OJT Report	After completing one month OJT in tourism organization and working in an organization makes them understand about the work culture and organization functioning.
29	BTTM-6-29	Viva-Voce	Final Viva-Voce is conducted by keeping all courses and to check their overall development after completing 6 semesters of BTTM.

