# **Consolidated Learning-Course-Programme Outcomes**

#### **DEPARTMENT OF CHEMISTRY**

		<ul> <li>the fundamental properties of the reactants involved.</li> <li>Understand the fundamental concepts of stereochemistry</li> </ul>
COURSE-2 STATES OF MATTER, CHEMICAL KINETICS & FUNCTIONAL ORGANIC CHEMISTRY	DSC-1B (CHEM102TH) (CHEM102IR) (CHEM102PR)	<ul> <li>Derive mathematical expressions for different properties of gas, liquid and solids and understand their physical significance.</li> <li>Explain the crystal structure and calculate related properties of cubic systems.</li> <li>Learn and identify many organic reaction mechanisms including Free Radical Substitution, Electrophilic Addition and Electrophilic Aromatic Substitution.</li> <li>Understand preparation, properties and reactions of haloalkanes, haloarenes and oxygen containing functional groups.</li> <li>Use the synthetic chemistry learnt in this course to do functional group transformations.</li> <li>To propose plausible mechanisms for any relevant reaction.</li> </ul>
BSc 2 <sup>nd</sup> COURSE-3 SOLUTIONS, PHASE EQUILIBRIUM, CONDUCTANCE, ELECTROCHEMISTRY & ORGANIC CHEMISTRY	DSC-1C (CHEM201TH) (CHEM201IR) (CHEM201PR)	<ul> <li>Understand phase equilibrium, criteria, CST, Gibbs-Duhem-Margules equation.</li> <li>Explain the chemistry of conductance and its variation with dilution, migration of ions in solutions.</li> <li>Learn the applications of conductance measurements.</li> <li>Learn the working of electrochemical cells, galvanic cell, corrosion and happenings in surroundings related to electrochemistry.</li> <li>Understand preparation, properties and reactions of oxygen containing functional groups.</li> <li>Use the synthetic chemistry learnt in this</li> </ul>

		<ul> <li>course to do functional group transformations.</li> <li>To propose plausible mechanisms for any relevant reaction</li> </ul>
COURSE-4 CHEMISTRY OF MAIN GROUP ELEMENTS, CHEMICAL ENERGETICS AND EQUILIBRIA	DSC-1D (CHEM202TH) (CHEM202IR) (CHEM202PR)	<ul> <li>Vinderstand the periodicity in atomic and ionic radii, electronegativity, ionization energy, electron affinity of elements of the periodic table.</li> <li>Understand oxidation states with reference to elements in unusual and rare oxidation states like carbides and nitrides.</li> <li>Understand the three laws of thermodynamics, concept of State and Path functions, extensive and intensive properties.</li> <li>Derive the expressions of ΔU, ΔH, ΔS, ΔG, ΔA for ideal gases under different conditions.</li> <li>Explain the concept of ionization of electrolytes with emphasis on weak acid and base and hydrolysis of salt.</li> </ul>
COURSE-5 BASIC ANALYTICAL CHEMISTRY	SEC-1 (CHEM203TH) (CHEM203IR)	<ul> <li>Handle analytical data</li> <li>Determine composition and pH of soil, which can be useful in agriculture</li> <li>Do quantitative analysis of metal ions in water</li> <li>Separate mixtures using separation techniques</li> <li>Estimate macro nutrients using Flame photometry</li> <li>Analysis of cosmetics</li> </ul>
COURSE-6 FUEL CHEMISTRY & CHEMISTRY OF COSMETICS & PERFUMES	SEC-2 (CHEM204TH) (CHEM204IR)	<ul> <li>The course covers both conventional petroleum-based fuels, and alternative &amp; renewable fuels, including gaseous fuels.</li> <li>The students will learn the chemistry that underpins petroleum fuel technology, will understand the refining processes used to produce fuels and lubricants and</li> </ul>

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PS.o. 3rd		<ul> <li>will know how differences in chemical composition affect properties of fuels and their usage in different applications.</li> <li>The course will also cover origin of petroleum, crude oil, composition, different refining processes employed industrially to obtain different fractions of petroleum. Further, course will cover various alternative and renewable fuels like Biofuels (Different generations), Gaseous Fuels (e.g. CNG, LNG, CBG, Hydrogen etc.).</li> <li>The course will also cover fuel product specifications, various test methods used to qualify different types of fuels as well characterization methods.</li> <li>Review of energy scenario (Global &amp; India), Energy sources (renewable and nonrenewable).</li> <li>Types of Crude Oils, Composition and Properties. Crude oil assay.</li> <li>Learn basic of cosmetics, various cosmetic formulation, ingredients and their roles in cosmetic products.</li> <li>Learn the use of safe, economic and body-friendly cosmetics.</li> <li>Prepare new innovative formulations.</li> </ul>
COURSE-7 (Choose one	(CHEM301IR)	<ul> <li>no know about polynuclear hydrocarbons</li> </ul>
from 3)	(CHEM301PR)	and heterocyclic chemistry
HYDROCARBONS, DYES.		Learn about reactions and
HETEROCYCLIC		mechanism in above mentioned topics.
COMPOUNDS AND SPECTROSCOPY		• Learn basics of
(UV, IR, NMR)		• To know how to
		characterized compounds
		by spectroscopy.

		Application of
INDUSTRIAL CHEMICALS AND ENVIRONMENT	DSE-1A (CHEM302TH) (CHEM302IR) (CHEM302PR)	<ul> <li>spectroscopy.</li> <li>The different toxic gases and their toxicity hazards</li> <li>Safe design systems for large scale production of industrial gases.</li> <li>Manufacturing processes, handling and storage of inorganic chemicals.</li> <li>Hazardous effects of the inorganic chemicals on human beings and vegetation.</li> <li>The requirement of ultrapure metals for the semiconducting technologies</li> <li>Composition of air, various air pollutants, effects and control measures of air pollutants.</li> <li>Different sources of water, water quality parameters, impacts of water pollution, water treatment.</li> <li>Different industrial effluents and their treatment methods.</li> <li>Different sources of energy.</li> <li>Generation of nuclear waste and its disposal.</li> <li>Use of biocatalyst in chemical industrial industrial industrial</li> </ul>
QUANTUM CHEMISTRY, SPECTROSCOPY & PHOTOCHEMISTRY	DSE-1A (CHEM303TH) (CHEM303IR) (CHEM303PR)	<ul> <li>account for the basic principles and concepts of quantum mechanics.</li> <li>solve the Schrödinger equation for model systems of relevance within chemistry.</li> <li>describe many-electron atoms with the independent particle model.</li> <li>To know about different molecular spectroscopy.</li> <li>Learn about Raman spectroscopy and its application.</li> <li>Learn the basics of phytochemistry.</li> </ul>
COURSE-8 (Choose one from 3)	DSE-2A (CHEM304TH) (CHEM304IR) (CHEM304PR)	<ul> <li>Learn about transition metal and inner transition metals and about their properties.</li> </ul>

CHEMISTRY OF TRANSITION AND INNER TRANSITION ELEMENTS, COORDINATION CHEMISTRY, ORGANOMETTALICS, ACIDS & BASES		<ul> <li>Valance bond theory, application and its limitations.</li> <li>Explain the theory of the determination of the electron structure of d-metal complexes.</li> <li>Discuss the properties of these complexes.</li> <li>Understand the structure and bonding in molecules and predict the structure of molecules.</li> <li>Know about EAN rule and its limitations.</li> <li>Learn about crystal field theory.</li> <li>How to calculate CF energy of complexes.</li> <li>Know about acid-base theory.</li> </ul>
POLYMER CHEMISTRY	DSE-2A (CHEM305TH) (CHEM305IR) (CHEM305PR)	<ul> <li>Know about history of polymeric materials and their classification</li> <li>Learn about different mechanisms of polymerization and polymerization and polymerization techniques</li> <li>Evaluate kinetic chain length of polymers based on their mechanism</li> <li>Differentiate between polymers and copolymers</li> <li>Learn about different methods of finding out average molecular weight of polymers</li> <li>Differentiate between glass transition temperature (Tg) and crystalline melting point (Tm)</li> <li>Determine Tg and Tm</li> <li>Know about solid and solution properties of polymers</li> <li>Learn properties and applications of various useful polymers in our daily life.</li> <li>This paper will give glimpse of polymer industry to the student and help them to choose their career in the field of polymer chemistry.</li> </ul>
MOLECULES OF LIFE	DSE-2A (CHEM306TH) (CHEM306IR)	• Learn about the molecules of life.

	(CHEM306PR)	<ul> <li>Carbohydrates serve as fuel and building material.</li> <li>Lipids are a diverse group of hydrophobic molecules.</li> <li>Proteins have many structures, resulting in a wide range of functions.</li> <li>Nucleic acids store and transmit hereditary information.</li> </ul>
COURSE-9 CHEMICAL TECHNOLOGY & SOCIETY AND BUSINESS SKILLS FOR CHEMISTRY	SEC-3 (CHEM307TH) (CHEM307IR)	<ul> <li>Understand the use of basic chemistry to chemical engineering.</li> <li>Learn and use various chemical technology used in industries.</li> <li>Develop scientific solutions for societal needs.</li> <li>Learn basics skills of of business and project management.</li> <li>Understand the process of product development and business planning that includes environmental compliancy.</li> <li>Learn the process by which technical innovations are conceived and converted into successful business ventures.</li> <li>Understand the intellectual property rights and patents which drive business viability and commercialization of innovation.</li> <li>Relate to the importance of chemistry in daily life, along with the employment and business opportunities. They will effectively use the skills to contribute towards the well-being of the society and derive commercial value.</li> </ul>
COURSE-10 PESTICIDE CHEMISTRY & PHARMACEUTICAL CHEMISTRY	SEC-4 (CHEM308TH) (CHEM308IR)	• Learn about the basic role of pesticide in everyday life, various ingredients and their role in controlling the pest. Students can also educate the farmers/gardeners to choose the appropriate

nonticidan for their oran
pesticides for their crop
production.
Gain insight into retro-
synthesis approach in
relation to drug design
and drug discovery
and drug discovery.
• Learn synthetic pathways
of major drug classes.
• Understand the
fermentation process and
production of ethanol,
citric acids, antibiotics
and some classes of
vitamins.

#### **DEPARTMENT OF BOTANY**

COURSE TITLE	COURSE CODE	LEARNING OUT COME ON THE COMPLETION OF COURSE ,STUDENTS WILL ABLE TO UNDERSTAND THE BASICS OF
BSc 1 <sup>st</sup> COURSE -1 Biodiversity (Microbes, Algae, Fungi and Archegoniates)	DSC-1A (BOTA 101)	Algae, Fungi, Microbes, Bryophytes, Pteridophytes and Gymnosperms.
COURSE -2 Plant Ecology and Taxonomy	DSC-1B (BOTA 102)	Introduction to Ecology, Ecological Factors, Plant communities, Ecosystem, Introduction to plant taxonomy, Botanical nomenclature, Classification, Biometrics, numerical taxonomy and cladistics
B.Sc. 2 <sup>nd</sup> COURSE-3 Plant Anatomy and Embryology	DSC-1A ( BOTA 201)	Meristematic and permanent tissues, Organs, Adaptive and protective systems, Secondary Growth, Structural organization of flower, Pollination, Fertilization, Embryo and endosperm
COURSE-4 Plant Physiology and Metabolism	DSC-1B (BOTA 202)	Plant-water relations, Mineral nutrition, Translocation in phloem, Photosynthesis, Respiration, Enzymes, Nitrogen metabolism, Plant growth regulators, Plant response to light and temperature.

COURSE-5 Biofertilizers	SEC-1 (BOTA 203)	Fertilizers,Rhizobium,ActinorrhizalSymbiosis,Azospirillum,Azotobacter,PhosphateSolubilizingOrganisms,Cyanobacteria,MycorrhizalAssociation,Organic Farming .Landscape
Floriculture		Floriculture, Gardening operations, Garden Designs, Principles, Types and Features, Propagation of Garden Plants, Ornamental Plants, Commercial Floriculture, Post Harvest Management.
B.SC. 3 <sup>RD</sup> COURSE-7 Economic Botany & Biotechnology or Analytical Techniques in Plant Sciences	DSE-1A (BOTA 301) Or BOTA 302	Cultivated Plants, Cereals, Pulses & Vegetables, Spices, Beverages, Oils and Sugar, Medicinal Plants, Introduction to Biotechnology. Imaging and related techniques, Cell fractionation, Radioisotopes.
COURSE-8 Cell and Molecular Biology OR Bioinformatics OR Genetics and Plant Breeding	DSE-1B BOTA 303 BOTA 304 BOTA 305	Techniques in Biology, Cell as a unit of Life, Cell Organelles, Cell Membrane and Cell Wall, Cell Cycle, Genetic material, Transcription (Prokaryotes and Eukaryotes), Regulation of gene expression. Introduction to Bioinformatics, Databases in Bioinformatics, Databases in Bioinformatics, Biological Sequence Databases, Sequence Alignments, Molecular Phylogeny, Applications of Bioinformatics. Heredity, Sex-determination and Sex-linked Inheritance, Linkage and Crossing over, Mutations and Chromosomal Aberrations, Plant Breeding, Methods of crop improvement, Quantitative inheritance, Inbreeding depression and heterosis
COURSE-9 Medicinal Botany and Ethnobotany	SEC-3 BOTA 306	Traditional Systems of Medicine, Ethnobotany, Plants Used by the Tribal, Methodology of

		Ethnobotanical Studies, Role of ethnobotany in modern Medicine, Ethnobotany and Legal Aspects,
COURSE-10 Mushroom Cultivation Technology	SEC-4 BOTA 307	Introduction, Cultivation Technology, Cultivation practices of Mushrooms, Storage, Food Preparation, diseases and Pests of Mushrooms.

#### **DEPARTMENT OF ZOOLOGY**

COLIDEE		
COURSE	COURSE	
TITLE	CODE	ON THE COMPLETION OF COURSE, STUDENTS WILL ABLE
		TO UNDERSTAND THE BASICS OF
BSc 1 <sup>st</sup>		Characterstics and classification of invertebrates and
COURSE -	DSC-	vertebrates
1Animal	1A(ZOOL	
Diversity	101)	
COURSE -	DSC-	Comparative account of
2Comparative	1B(ZOOL	integuments, skeleton, digestion, circulation, urinogenital, nervou
anatomy and	102)	s system, sense organs and emryonic development of
Developmenta		vertebrates.
l biology of		
Vertebrates		
B.Sc. 2 <sup>nd</sup>	DSC-	Nerve, nerve impulse conduction,muscle
COURSE-3	1C(ZOOL201)	contraction, physiology of
Physiology and		digestion, respiration, excretion, cardiovascular
Biochemistry		system, reproduction and endocrine glands, carbohydrate
		metabolism, lipid metabolism, protein metabolism and enzymes
COURSE-4	DSC-	Mendelian genetics, linkage, crossing over, chromosomal
Genetics and	1D(ZOOL	mapping, mutation, sex determination, human
Evolutionary	202)	evolution, evolutionary theories, evidences of
Biology		evolution, evolutionary changes, species concept, macro
		evolution and extinction
COURSE-	SEC-1	Importance of medical diagnostics, blood analysis, urine
5Medical	(ZOOL203)	analysis, non- infectious and infectious diseases, tumours
Diagnosis		
COURSE-6	SEC-2	Biology of bees, rearing of bees, bees diseases and enemies, bee
Apiculture	(ZOOL204)	economy and entrepreneurship in apiculture
B.SC. 3 <sup>RD</sup>		Concept and scope of biotechnology,molecular techniques in
COURSE-	DSE-1A	gene manipulation, genetically modified organisms, culture
7Applied	(ZOOL301A	techniques and applications
zoology or	)	
Animal	OR	
biotechnology	(ZOOL301B	
	) OR	

or Aquatic	(ZOOL301C	
biology	)	
		Reproductive endocrinology, functional anatomy of male and
COURSE-	DSE-1B	female reproductive system, reproductive health, infrtility and
8Insect,	(ZOOL302A)	modren contraceptive methods
vectors and	OR	
diseases or	(ZOOL302B)	
Immunology	OR	
or	(ZOOL302C)	
Reproductitive		
biology		
COURSE-	SEC-3(	
9Sericulture	ZOOL303)	Biology of Silkworm, rearing of Silkworm, pests and diseases,
		entrepreneurship in sericulture
COURSE-	SEC-4	•
10Aquarium	(ZOOL304A	•
fish keeping or	)OR(	
Research	ZOOL304B)	
methodology		

#### **DEPARTMENT OF PHYSICS**

# **PROGRAMME SPECIFIC OUTCOMES:** This undergraduate course in Physics Would provide theopportunity to the students:

- To understand the basic laws and explore the fundamental concepts of physics
- To understand the concepts and significance of the various physical phenomena.
- To carry out experiments to understand the laws and concepts of Physics.
- To apply the theories learnt and the skills acquired to solve real time problems.
- To acquire a wide range of problem solving skills, both analytical and technical and toapply them.
- To enhance the student's academic abilities, personal qualities and transferable skills this will give them an opportunity to develop as responsible citizens.
- To produce graduates who excel in the competencies and values required for leadership o serve a rapidly evolving global community.
- To motivate the students to pursue PG courses in reputed institutions.
- This course introduces students to the methods of experimental physics. Emphasis will be given on laboratory techniques specially the importance of accuracy of measurements.
- Providing a hands-on learning experience such as in measuring the basic concepts inproperties of matter, heat, optics, electricity and electronics.

#### **Programme Outcomes:**

#### **Core Courses:**

**DSC1: Mechanics Theory (PHYS101TH):** The students would learn about the behaviour of physical bodies it provides the basic concepts related to the motion of all the objects around us in our daily life. The course builds afoundation of various applied field in science and technology; especially in the field of mechanical engineering. The course comprises of the study vectors, laws of motion, momentum, energy, rotational motion, gravitation, fluids, elasticity and special relativity.

**Mechanics Lab (PHYS101PR):** Students would perform basic experiments related to mechanics and also get familiar with various measuring instruments would learn the importance of accuracy of measurements.

**DSC2: Electricity and Magnetism Theory (PHYS102TH):** It gives an opportunity for the students to learn about one of the fundamental interactions of electricity and magnetism, both as separate phenomena and as a singular electromagnetic force. The course contains vector analysis, electrostatics, magnetism, electromagnetic induction and Maxwell's equations. The course is very useful for the students in almost every branch of science and engineering.

**Electricity and Magnetism Lab (PHYS102PR):** Students would gain practical knowledge about electricity and magnetism and measurements such as: Resistance, Voltage, current etc.

**DSC3: Thermal Physics and Statistical Mechanics Theory (PHYS201TH):** The course makes the students able to understand the basic physics of heat and temperature and their relation with energy, work, radiation and matter. The students also learn how laws of thermodynamics are used in a heat engine to transform heat into work. The course contains the study of laws of thermodynamics, thermodynamic description of systems, thermodynamic potentials, kinetic theory of gases, theory of radiation and statistical mechanics.

**Thermal Physics and Statistical Mechanics Lab (PHYS201PR ):** Students would gain practical knowledge about heat and radiation, thermodynamics, thermo emf, RTD etc. and perform various experiments.

**DSC4: Wave and Optics Theory (PHYS202TH):** The course comprises of the study of superposition of harmonic oscillations, waves motion (general), oscillators, sound, wave optics, interference, diffraction, polarization. The course is important for the students to make their career in various branches of science and engineering, especially in the field of photonic engineering.

**Wave and Optics Lab (PHYS202PR):** The practical knowledge of wave motion doing experiments: Tuning fork, electric vibrations. They would also learn optical phenomena such as interference, diffraction and dispersion and do experiments related to optical devices: Prism, grating, spectrometers

#### **Discipline Specific Elective Curses**

**DSE1: Elements of Modern Physics Theory (PHYS301TH):** Students would know about the basic principles in the development of modern physics. The topics covered in the course build a basic foundation of undergraduate physics students to study the advance branches:

quantum physics, nuclear physics, particle physics and high energy physics. The course contains the study of Planck's hypothesis, photoelectric effect, Compton effect, matter waves, atomic models, Schrodinger wave equations, and brief idea of nuclear physics.

**Elements of Modern Physics Lab (PHYS301PR):** In this course students would be able to understand Basic experiments of modern physics such as: Determination of Plank's and Boltzmann's constants, Determination of ionization potential, Wavelength of H-spectrum, Single and double slit diffraction, Photo electric effect and determination of e/m

**DSE2:** Quantum Mechanics Theory (PHYS305TH): Quantum mechanics provides a platform for the physicists to describe the behaviour of matter and energy at atomic and subatomic level. The course plays a fundamental role in explaining how things happen beyond our normal observations. The course includes the study of Schrodinger equations, particle in one dimension potential, quantum theory of H like atoms, atoms/molecules in electric and magnetic fields.

**Quantum Mechanics Lab (PHYS305PR):** Various practical problems solving methods related to Quantum Mechanics would be learned by students.

#### **Skill Enhancement Course:**

**SEC: Computational Physics Theory (PHYS204TH):** This course would introduce students with the basic knowledge of computers their applications in solving common and scientific problems, the course include scientific programming language FORTRAN, scientific word processing and graphical analysis.

COURSE TITLE	COURSE CODE	LEARNING OUT COME
		On the completion of course
		,students will able to-
B.Sc./B.A 1 <sup>st</sup>		<ul> <li>determine continuity and</li> </ul>
COURSE -1 Differential	MATH101TH	differentiability of a function
Calculus		at a point.
		<ul> <li>evaluate the limit of</li> </ul>
		Indeterminate form
		•understand the general
		theorems and find the
		concavity and convexity of
		curves

#### **DEPARTMENT OF MATHEMATICS**

		<ul> <li>determine the asymptotes of curves and singular point on the curve</li> <li>determine the limit and continuity of functions of two variables</li> <li>determine the Jacobian of n-functions</li> </ul>
COURSE -2 Differential equations	MATH102TH	<ul> <li>understand the basic theory of linear differential equations and find the wronskian of functions</li> <li>solve the linear differential equation by using an integrating factor.</li> <li>find the solution of homogeneous and non homogeneous linear differential equations with constant coefficient and variable coefficients as a linear combination of complimentary function and particular solution.</li> <li>solve the simultaneous differential equations and total differential equations.</li> <li>solve the partial differential equations of 1st order, 2nd order and higher order.</li> </ul>
B.SC./B.A 2 <sup>nd</sup> COURSE-1 Real Analysis	MATH201TH	•describe the fundamental properties of the real numbers that underpin the

		formal development of real numbers. • demonstrate and understanding of the Theory of sequences and series. • apply the theories in the course to solve variety of problems at an appropriate level of difficulty.
COURSE-2 Algebra	MATH202TH	<ul> <li>assess properties implied by the definitions of groups and rings.</li> <li>analyse and demonstrate example of subgroups, normal subgroups and quotient rings.</li> </ul>
		<ul> <li>use the concepts of isomorphism and homomorphism of groups and rings.</li> </ul>
COURSE-3 Integral Calculus	MATH309	•compute integration by partial fraction, integration of rational and irrational functions.
		•understand the Theory of definite integral.
		•find the reduction formula for integrals by the method of integration by parts and the method of connecting the integrals
		•compute the areas and lengths of curves in the plane, volumes and surfaces of solids of revolution.

		•evaluate the double and
		triple integral of a function.
COURSE-4 Vector Calculus	MATH310TH	<ul> <li>memorize theorems</li> </ul>
		relating directional
		derivative to gradient.
		•compute directional derivative s, gradient,
		divergence and curl of vector field.
		<ul> <li>apply gradients to solve</li> </ul>
		problems involving normal
		vectors to level surfaces.
		e ovelain the concept of
		vector differentiation and
		integration in a plane and
		snace
		space.
B.Sc./B.A 3 <sup>RD</sup>	MATH304TH	•find the rank of matrices.
COURSE-1 Matrices		ecolus the Lincor Fructions
		• Solve the Linear Equations
		by Matrix Method.
		<ul> <li>find the characteristic</li> </ul>
		equation and corresponding
		eigen vectors of a given
		matrix.
		•determine if the given
		matrix is diagonalizable.
		_
COUDEE 2. Numerical	MATH304TH	•understand the theoretical
Methods		and practical aspects of the
Methods		use of Numerical Analysis.
		<ul> <li>establish the limitations,</li> </ul>
		advantages and
		disadvantages of numerical
		methods.
		edorivo Numorical Mathada
		for various mathematical

		operations and tasks such as
		interpolation, differentiation,
		integration, the solution of
		linear and nonlinear
		equations and solution of
		differential equations.
COURSE-3 Vector Calculus	MATH310TH	•memorize theorems
		relating directional
		derivative to gradient.
		<ul> <li>compute directional</li> </ul>
		derivative s, gradient,
		divergence and curl of vector
		field. apply gradient to solve
		problems involving normal
		vectors to level surfaces.
		explain the concept of
		vector differentiation and
		integration in a plane and
		space

#### **DEPARTMENT OF COMMERCE**

Course No.	Course Title	Course Type	LEARNING OUT-COME ON THE COMPLETION OF THE COURCE, STUDENTS WILL ABLE TO-
BC 1.1	Financial Accounting	Core Course C-1	<ol> <li>Know the conceptual knowledge of the Financial Accounting.</li> <li>Recording various kinds of business transactions.</li> </ol>
BC 1.2	Business Organization and Management	Core Course C-2	1. Get basic knowledge about the organization and management of a business enterprise.
BC 1.3	Business Law	Core Course C-4	<ol> <li>Know the important Legislation along with relevant case law.</li> </ol>

BC 1.4	Business Statistics and Mathematics	Course C-5	1. Know the applications of statistical techniques and mathematics in business decision – making.
Year II			
BC 2.1	Company Law	Core Course C-7	1. Get basic knowledge of the provisions of the Company act, 2013.
BC 2.2	Income Tax Law and Practice	Course C-8	1. Familiarize with applications of principles and provisions of INCOME TAX ACT, 1961.
BC 2.3	Computer Applications in Business	Skill-Enhancement Elective Course (SEC)- 1	1. Enhance computer skills and understands of usefulness of information technology tools for business operations.
BC 2.4	Corporate Accounting	Core Course C-11	1. Acquire the basic knowledge of the corporate accounting and to learn the techniques of preparing the financial statements.
BC 2.5	Cost Accounting	Core Course C-12	1. Know the basic concepts used in cost accounting, various methods involved in cost ascertainment and cost accounting book-keeping systems.
BC 2.6	E-Commerce	Skill-Enhancement Elective Course (SEC)- 2	1. become familiar with the mechanism for conducting business transactions through electronic means.
YEAR III			
BC 3.1(b	Principles of Marketing	Discipline Specific Elective (DSE)-1	<ol> <li>Get basic knowledge of concepts, principles, tools and techniques of marketing.</li> </ol>
BC 3.2(a)	Corporate Governance and Auditing	Discipline-Specific Elective (DSE)-2	1. Get knowledge of auditing principles, procedures and techniques in accordance with

			current legal
			requirements and
			professional
			standards.
BC 3.3	Entrepreneurship	Skill-Enhancement	1. Know
		Elective Course (SEC)-	entrepreneurship as a
		3	career option and
			creative thinking and
			behavior.
ECONA313	Economy of Himachal	Economy of Himachal	1. Know the basic
	Pradesh.	Pradesh.	features,
			characteristics and
			developmental issues
			of the Himachal
			Pradesh economy.
BC3.5(c)	Management	Discipline- Specific	1. Get knowledge
	Accounting	Elective (DSE)-3	about the use of
			financial, cost and
			other data for the
			purpose of managerial
			planning, control and
			decision making.
BC3.6(c)	Fundamentals of	Discipline- Specific	1. Know different
	Investment	Elective (DSE)-4	investment
			alternatives and
			investor protection.
BC 3.7	Personal Selling and	Skill-Enhancement	1. Understand selling
	Salesmanship	Elective Course (SEC)-	as a career and what it
		4	takes to be a
			successful salesman.
ECONA314 Indian	Indian Economy	Generic Elective (GE)-	1. Get in-depth
Economy Generic		2	knowledge of various
Elective (GE)-2			problems and issues
			faced by Indian
			Economy.

### **DEPARTMENT OF GEOGRAPHY**

Class	COURSE TITLE /	Credits	Learning Outcomes
	CODE		
B.A. 1 <sup>st</sup> Year	Physical Geography GEOGP101CC	6	<ul> <li>Students will demonstrate knowledge of the major physical features of the Earth and the ability to locate examples of Earth's major physical features on a map.</li> <li>Students will demonstrate their knowledge of physical geography and the methods and techniques for observing, measuring, recording and reporting on geographic phenomena.</li> <li>Understand the elements of weather and climate, different atmospheric phenomena and climate change.</li> <li>Learn to associate climate with other environmental and human issues. Approaches to climate classification.</li> <li>To analyse the dynamics of the Earth's atmosphere and global climate. Assessing the role of man in global climate change.</li> </ul>
	General	6	Understand and prepare different kinds of maps.
	Cartography		Recognize basic themes of map making.
	GEOGP102 CC		<ul> <li>Development of observation skills</li> <li>Comprehend the concent of cooled and concentration of data through</li> </ul>
			Comprehend the concept of scales and representation of data through cartograms
			<ul> <li>Interpret geological and weather maps.</li> </ul>
			• Learn the usages of survey instruments.
			• Brings direct interaction of different types of surveying instruments
		6	like Dumpy level and Theodolite with environment.
B.A. 2 <sup>nd</sup>	Human Geography (GEOGP201CC)	6	<ul> <li>Students will have a general understanding of global human population patterns, factors influencing the distribution and mobility of human populations including settlement and economic activities and networks, and human impacts on the physical environment</li> <li>Students will acquire an understanding of and appreciation for the relationship between geography and culture.</li> <li>Students will read, interpret, and generate maps and other geographic representations as well as extract, analyze, and present information from a spatial perspective.</li> <li>Students will have a general understanding of global human population patterns, factors influencing the distribution and mobility of human populations including settlement and economic activities and networks, and human impacts on the physical environment.</li> <li>Students will be able to think in spatial terms to explain what has occurred in the past as well as using geographic principles to understand the present and plan for the future.</li> </ul>
Year	Environmental Geography (GEOGP202CC)	6	<ul> <li>Identifying and explaining the planet's human and physical characteristics and processes, from global to local scales.</li> <li>Evaluating the impacts of human activities on natural environments.</li> <li>Applying knowledge of global issues to local circumstances to evaluate the local effects of the issues.</li> <li>Showing an awareness and responsibility for the environment.</li> </ul>
	Regional Planning and Development (GEOGP203SEC)	4	<ul> <li>Understand and identify regions as an integral part of geographical study. Appreciate the varied aspects of development and regional disparity, in order to formulate measures of balanced development.</li> <li>Analysing the concept of regions and regionalization.</li> <li>Studying typical physiographic, planning, arid and biotic regions of</li> </ul>

	Remote Sensing and GPS (GEOGP204SEC)	4	<ul> <li>India. Understanding the detailed geography of India.</li> <li>Gain knowledge about definition of region, evolution and types of regional planning. Develop an idea about choice of a region for planning. Build an idea about theories and models for regional planning. Know about measuring development indicators.</li> <li>They can know about delineation of formal regions by weighted index method and also delineation of functional regions by breaking point analysis</li> <li>Have knowledge of the principles of remote sensing, sensor resolutions and image referencing schemes.</li> <li>Interpret satellite imagery and understand the preparation of false color composites from them.</li> <li>Analyzing and interpreting remotely sensed satellite images and aerial photographs in order to understand topographical and cultural variations on the Earth's surface.</li> </ul>
	Geographic Information System (Practical) (GEOGP301SEC) Field Techniques and Survey based Project Report (Practical) (GEOGP302SEC)	4	<ul> <li>Students will demonstrate their competence to work individually and as a team to develop and present a client-driven GIS solution.</li> <li>Students will demonstrate their competence to work individually and as a team to develop and present a client-driven GIS solution.</li> <li>Students will be able to present completed research, including an explanation of methodology and scholarly discussion, both orally and in written form and, wherever possible, utilize cartographic tools and other visual formats.</li> <li>Students will demonstrate an understanding of the components of research design including problem definition, theory, literature review, methodology, and analysis.</li> <li>Students will demonstrate significant research and writing expertise resulting in a meaningful scholarly contribution.</li> </ul>
B.A. 3 <sup>rd</sup> Year	Geography of India (GEOGP303- 1DSE) Disaster Management (GEOGP304- 1DSE)	6	<ul> <li>Identifying and explaining the Indian Geographical Environment, from global to local scales.</li> <li>Applying geographical knowledge to everyday living.</li> <li>Applying knowledge of global issues to a unique scientific problem.</li> <li>Showing an awareness and responsibility for the environment and India.</li> <li>Evaluating the impacts of human activities on natural environments special reference to India.</li> <li>Understand the nature of hazards and disasters.</li> <li>Assess risk, perception and vulnerability with respect to hazards.</li> </ul>
	GE-1 Disaster Risk Reduction (GEOGP305- GE1) GE-2 Sustainability and Development (GEOGP306-GE2)	6	<ul> <li>Prepare hazard zonation maps.</li> <li>Assessing the nature, impact and management of major natural and man-made hazards affecting the Indian subcontinent</li> <li>Students will have a general understanding of how the physical environment, human societies, and local and global economic systems are integral to the principles of sustainable development.</li> <li>Learn Global initiatives to climate change mitigation: Kyoto Protocol, carbon trading, clean development mechanism, COP, climate fund</li> </ul>

### **DEPARTMENT OF ECONOMICS**

ECONOMICS			
Title of the Course	Code	Learning Objective/Course description	
Principles of Microeconomics – I	ECONA101	This course is designed to expose the student to the basic principles in Microeconomic Theory and illustrate the same with applications.	
Principles of Microeconomics – ii	ECONA102	This is a sequel to Principles of Microeconomics–I covered in the part – I. The objective of the course is to further the understanding of the student so as to achieve conceptual clarity.	
Principles of Macroeconomics–I	ECONA201	This course introduces students to the basic concepts in Macroeconomics. Macroeconomics and deals with the aggregate economy. In this course the students are introduced to the definition, measurement of the macroeconomic variables such as GDP, consumption, savings, investment and balance of payments. The course also discusses various theories of determining GDP in the short run.	
Principles of Macroeconomics– II	ECONA202	This is a sequel to Principles of Macroeconomics–I. It analyses various aspects of macroeconomics in greater detail. It also introduces the student to concept of inflation, its relationship with unemployment and some basic concepts in an open economy.	
Indian Economy	ECONA301/ ECONA314	This course is designed to enable students to have in- depth knowledge of various problems and issues faced by Indian Economy. The course will concentrate on both the achievements and the issues of the economy.	
Economy of Himachal Pradesh	ECONA303/ ECONA313	This course highlights the basic features, characteristics and developmental issues of the Himachal Pradesh economy.	
Economics of Rural Development	ECONA204	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.	
Demography	ECONA206	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.	
Public Finance	ECONA310	This course is a non-technical overview of government finances with special reference to India. The course does not require any prior knowledge of economics. It will look into the efficiency and equity aspects of taxation of the centre, states and the local governments and the issues of fiscal federalism and	

		decentralization in India. The course will be useful for students aiming towards careers in the government sector, policy analysis and business.
Money and Banking	ECONA311	This course exposes students to the theory and functioning of the monetary and financial sectors of the economy. It highlights the organization, structure and role of financial markets and institutions. It also discusses interest rates, monetary management and instruments of monetary control. Financial and banking sector reforms and monetary policy with special reference to India are also covered. The course does not require any prior knowledge of economics.

#### **DEPARTMENT OF SOCIOLOGY**

DEPARTMENT OF SOCIOLOGY		
Course Title	Course Code	Learning Outcomes
Introduction to Sociology	SOCL-A 101	<ul> <li>Define Sociology and demonstrate nature, scope and subject matter of sociology.</li> <li>Acquaint themselves with the basic concepts of Sociology like Society, Community, Association, Culture etc.</li> <li>Demonstrate how sociology differ from and similar to other social sciences.</li> </ul>
Society in India	SOCL-A 102	<ul> <li>Learn about the concepts like Unity and Diversity.</li> <li>Know the basic social institutions like family, marriage and kinship in a scientific way.</li> <li>Realize the issues of Indian society like casteism, communalism etc</li> </ul>
Sociological Theories	SOCL-A 201	<ul> <li>Define sociological theory and understand its features.</li> <li>Analyse the life and major work of Karl Marx.</li> <li>Explain the contribution of Emile Durkhiem and Max weber in the development of sociology</li> </ul>
Methods of Sociological Enquiry	SOCL-A 202	<ul> <li>Meaning, scope and significance of social research.</li> <li>Explain the fundamental steps of social research.</li> <li>Learn how to collect data.</li> <li>Describe sampling method and appropriate uses of each.</li> <li>Demonstrate knowledge of research process like reading, evaluating, developing.</li> </ul>
Techniques of Social Research	SOCL-A 203	<ul> <li>Define what reliability and validity mean in a research study.</li> <li>Explain how the scientific method is used in social research</li> </ul>
Sociology of Environment	SOCL-A 204	<ul> <li>Explain the concept of Environment and Society.</li> <li>Define Ecology and Eco system.</li> </ul>

		• Identify Environmental problems and the means for
	ao at t	environmental awareness.
Social Demography	SOCL-A	• Key concepts of Social Demography.
	301	• Knowledge about theories of Population.
		• Learn about the factors affecting Mortality and Fertility.
		Know the population policies in India.
		• Explain the various social problems in India like Poverty,
		Slums etc.
<b>Theory and Practice</b>	SOCL-A	Describe Social Development.
of Development	302	• Identify path of development.
		<ul> <li>Explain developed, developing and under developing countries.</li> </ul>
		• Describe developmental planning and policies like PRI.
Social Stratification	S0CL-A	• Explain social stratification, principle types of stratification
	305	system.
		Describe Caste and Class.
		• Present theoretical perspective with reference to social
		stratification.
		• Elaborate the types of social mobility.
<b>Religion and Society.</b>	SOCL-A	• Define Religion and the functions of Religion.
	303	• Know about the types of religion on India.
		• Describe the features of Indian Religions (HINDU,
		ISLAM,SIKH).
		Explain Secularism and Communalism.
Polity and Society in	SOCL-A	Describe Political Sociology
India	307	• Understand the impact of social factors upon Politics.
		• Explain State, Government and Bureaucracy.
		• Participate in academic and professional discussion on
		Politics and society.
<b>Economy and Society</b>	SOCL-A	• Know about the tricks of routine households and another
	308	economic practices.
		• Understand the impacts of social factors upon Indian
		Economy.

#### **DEPARTMENT OF PHYSICAL EDUCATION**

COURSE TITLE	COURSE CODE	LEARNING OUTCOME on the completion of course, students will able to-
BA 1 <sup>st</sup> COURSE-1 Introduction to physical education	DSC-1A (PED101TH)	• Improve the understanding of the importance of maintaining a healthy lifestyle.

		• A variety of skills and abilities related to lifetime leisure activities.
COURSE-2 Athletics and game-1	DSC-1A (PED101PR)	<ul> <li>Increased confidence and reduce stress.</li> <li>Improved lung function and improve mental health.</li> </ul>
COURSE-3 Olympic movement and organization of tournaments	DSC-1B (PED102TH)	<ul> <li>Promoting sports and the Olympic values in society.</li> <li>People inspired by the values of olympism.</li> <li>Three main outcomes of olympism are excellence, friendship, and respect.</li> </ul>
COURSE-4 Athletics and game-II	DSC-1B (PED102PR)	<ul> <li>Sports builds leaders and improved cardiovascular health.</li> <li>Lower risk of heart disease, stroke, and diabetes.</li> </ul>
BA 2 <sup>nd</sup> COURSE-1 Human anatomy and physiology	DSC-1C (PED201TH)	<ul> <li>Tells the basic knowledge of human anatomy and physiology.</li> <li>Define the main structures comparing human body.</li> <li>Tells about the nervous system and sense organs.</li> </ul>
COURSE-2 Athletics and game-III	DSC-1C (PED201PR)	<ul> <li>Helps manage weight and enhanced aerobic fitness.</li> <li>Reduce blood pressure and improve muscular strength and endurance.</li> </ul>
COURSE-3 Sports psychology	DSC-1D (PED202TH)	<ul> <li>Effectively develop and apply health, physical activity and psychological principles as they relate to human performance.</li> <li>Demonstrate effective written and oral skills in various formats and for various purposes.</li> </ul>
COURSE-4 Athletics and game-IV	DSC-1D (PED202PR)	• Improve joint flexibility and range of motion.

		• Encourages healthy living habits and develops time management and organizational skills.
<b>COURSE-5 SEC1:</b> Sports medicine, psychotherapy and rehabilitation	PED203TH	• Knowledge about psychotherapy and rehabilitation.
COURSE-6 SEC2: Sports training	PED204TH	• Knowledge of sports training.
B.A 3 <sup>rd</sup> COURSE-1 Recreation	DSE-1A (PED305TH)	<ul> <li>Learn skills through play and sports.</li> <li>Improve moods, reduce stress and enhance a sense of wellness.</li> </ul>
COURSE-2 Officiating and coaching	DSE-1B (PED308TH)	<ul> <li>Provide leadership and guidance to participants, ensuring that the competition is conducted in a safe and fair manner.</li> <li>Officiating affords an individual the opportunity to develop interpersonal skills and to hone one's iudgement skills.</li> </ul>
<b>COURSE-3</b> Kinesiology and biomechanics	DSE-1A (PED306TH)	• Learn about biomechanics.
<b>COURSE-4</b> Methods of teaching in physical education	DSE-1B (PED307TH)	• To learn about methods in physical education.
COURSE-5 SEC3 Specialization in Kabaddi	PED303PR	<ul> <li>Improve stamina, speed, agility, multitasking abilities.</li> <li>Enhance presence of mind.</li> </ul>
COURSE-6 SEC4 Specialization in athletics	PED304PR	<ul> <li>Demonstrate traits of good sportsmanship and team work in both competition and practice.</li> <li>Demonstrate an expert knowledge of the strategies and skills of sport.</li> </ul>
<b>COURSE-7 GENERIC 1:</b> Health education and nutrition	PED309TH	• Nutrition education provides participants with the skills and resources to make

		better nutritional
		choices to combat
		disease.
		Chronic disease
		awareness and prevention.
		• Nutrition, exercise, and obesity prevention.
		• Injury and violence prevention.
<b>COURSE-8 GENERIC 2:</b>	PED310TH	Increased. Flexibility.
Yoga		• Maintaining a balanced metabolism.
		• Improve respiration, energy, and vitality.
		• Increase muscle strength and tone.

#### **DEPARTMENT OF MUSIC**

COURSE TITLE	COURSE CODE	LEARNING OUTCOME
		on the completion of course,
		students will able to-
BA 1 <sup>st</sup>	MUSA101TH	• Life stories of musician.
COURSE-1 Theory of Indian		Knowledge of words of
music		music.
COURSE-2 Practical stage	MUSA102PR	Knowledge of different
performance		raga and different taal.
<b>COURSE-3</b> Theory of Indian	MUSA103TH	• Definition of shruti and
music general & biographics		alnkar.
		• Life stories of musician.
COURSE-3 Practical viva	MUSA104PR	Practical knowledge of
based		different raga and
		different taal.
BA 2 <sup>nd</sup>	MUSA201TH	• Knowledge of dhrupad,
COURSE-1 Ancient granthas		dhamar, tarana, and
& contribution of musicologist		sawarlipi.
COURSE-2 Practical stage	MUSA202PR	Vilambit khayal & drut
performance		khagal with taal.
COURSE-3 Medieval	MUSA203TH	• Thumri, Tappa-tarana
granthas & contribution of		& contribution of
musicians		musician.
COURSE-4 Practical viva	MUSA204PR	• Knowledge of ragas,
based		one dhrupad & taalas.
COURSE-5 SEC1:	MUSA205	• Field visit Door darshan
Presentation & documentation		& Radio air.
		• Prepare a report.

COURSE-6 SEC2: Presentation & documentation	MUSA206	Knowledge of operating     sound system
B.A 3 <sup>rd</sup> COURSE-1 SEC1: Presentation & documentation	MUSA301	<ul> <li>Basic technique of harmonium and Tabla playing.</li> <li>Visit in state level festival.</li> </ul>
COURSE-2 SEC2: Presentation & documentation	MUSA302	PowerPoint     presentation of great     musician & patriotic     song.
<b>COURSE-3</b> Theory of Indian music & study of ancient granthas & ragas	MUSA303TH	• Folk music of HP & modern trend biographics.
COURSE-4 Practical Hindustani music	MUSA304PR	• Knowledge of vilambit khayal, drut khayal, and dhrupad.
<b>COURSE-5</b> Theory of Indian music & Gharana tradition	MUSA305TH	• Form of music-thumri, tappa, dadra, and gharanaparmpara.
COURSE-6 Practical Hindustani music	MUSA306PR	• Knowledge of film song with classical raga.
COURSE-7 GENERIC: Theory of Indian music & folk music	MUSA307TH	<ul> <li>Folk songs and folk instruments of HP &amp; biographics of HP musicians.</li> <li>Impact of music in human life.</li> </ul>
COURSE-8 GENERIC: Practical	MUSA308PR	• Knowledge of alankar, raag, taal, gazal & folk songs.

#### **DEPARTMENT OF ENGLISH**

Course Title	Course Code	Learning outcome
Core English	ENG 101	<ul> <li>Students will be able to interpret texts in a variety of genres by performing close readings</li> <li>To develop aesthetic taste among the students.</li> <li>It will assist the students to become more competent and efficient in speaking and writing a language</li> </ul>
English Literature Essays and Stories	DSE 102	<ul> <li>By writing essays, students will be able to compose a coherent, unified and balanced paragraph in a better way.</li> <li>Students will be able to demonstrate their ability to recognize context clues that assist with vocabulary.</li> </ul>

		• They will be able to grasp the content of literature.
English Literature Poems	ENG DSC 103	<ul> <li>Students will be able to understand the significance of nature in romantic poetry of English literature.</li> <li>They will also be able to comprehend the differences between imagination and reason in the poetry of neoclassical poetry and romantic poetry.</li> <li>It will enable the students to understand difference between poetry and science in Victorian poetry in England</li> </ul>
Writing Skills	ENG AECC 104	<ul> <li>Students will heighten their awareness of correct usage of English grammar in writing and speaking.</li> <li>Students will be able to increase their reading speed and comprehension of academic articles.</li> <li>Students will strengthen their ability to write academic papers, essays and summaries in a lucid way.</li> </ul>
English Core Compulsory	ENG CE 201	<ul> <li>To develop considerable acquaintance of the students with literary texts and importance of knowledge.</li> <li>To enhance the knowledge of students in the context of critical analysis.</li> <li>It develops self directed understanding of high language and capability of self expression.</li> </ul>
British Literature, Play and Novel	DSC 202	<ul> <li>To acquaint students with British Literature.</li> <li>To understand a few and significant literary terms like irony, satire and homour required for better understanding of literature.</li> <li>Students will be able to understand the themes, plot, character, and social milieu of that period.</li> </ul>
Literary Cross Currents	ENG DSC202	<ul> <li>It will make the students to identify, explain and evaluate different types of critical texts.</li> <li>Students will be able to explain, evaluate literary concepts and theory relevant to selected texts.</li> <li>They will able to think critically and develop argumentative skills.</li> </ul>
Business communication	ENG AEEC SEC 302	<ul> <li>Students will be able to differentiate between different methods of communication.</li> <li>They will come to know the importance of staying connected with colleagues, other professionals and customers in the digital age.</li> <li>They will know how to make information more accessible to your audience.</li> </ul>

Course Title	Course Code	Learning Outcomes
Creative Writing, Book, and Media Reviews	ENG SEC 204	<ul> <li>It will make the students familiar with the literary terms and genre of novel and short story.</li> <li>To develop critical power of the students by reading literature.</li> <li>Students will be able to develop their mental horizon by critically analyzing or reading drama, text books and stories.</li> </ul>
Translation Studies and Principles of Translation	ENG SEC 205	<ul> <li>It reveals how language has structural differences as well as similarities in vocabulary and word order.</li> <li>It evaluates personal language skills of the students.</li> <li>It will enhance the critical power of the students to evaluate any text.</li> <li>It will make the students familiar with the specified order required for the exact translation.</li> </ul>
Technical writing	ENG SEC 301	<ul> <li>It will convey specialized information from a technical field to a non-special audience.</li> <li>Students will assess effectiveness and validity of information source such as web sites, business documents and professional journals.</li> <li>They will be able to edit documents with peer exchange and professional guidelines.</li> </ul>
Soft Skills	ENG DSE 303	<ul> <li>It makes the students resilient and they will get to know how to cope with the unfamiliar situation when things don't go according to plan.</li> <li>It inculcates a sense of belongingness with the team and group of students.</li> <li>Learners will be able to accomplish learning task assigned to them.</li> </ul>
Academic Writing and Composition	ENF DSE 304	<ul> <li>Students will be able to structure written work.</li> <li>They will be able to understand the importance of careful drafting and editing of written work.</li> <li>They will be able to understand the importance of clear and concise analysis of content of the subject.</li> </ul>

### **DEPARTMENT OF POLITICAL SCIENCE**

COURSE TITLE	COURSE CODE	LEARNING OUT COME
		On the completion of course
		,students will able to-
B.A 1 <sup>st</sup> COURSE -1 Introduction to Political Theory	DSC-1A( POLS 101)	<ul> <li>Distinguish systematic normative inquiry from other kinds of inquiry within the discipline of</li> </ul>
		<ul> <li>political science.</li> <li>Identify the most important contributors to modern Western political thought and explain why their contribution are important.</li> <li>Demonstrate the ability to apply abstract theory to concrete problems by using the ideas of political theorists to address contemporary social issues such as affirmative action ,pornography and capital punishment</li> </ul>
COURSE -2 Indian Government and Politics	DSC-1B( POLS 102)	<ul> <li>Demonstrate knowledge about the significance of current issues of Indian politics</li> <li>Analyze political and policy problems and formulate policy options.</li> <li>Discuss and evaluate the institutional structure and operations of the major national and state political institutions.</li> </ul>
B.A 2 <sup>nd</sup> COURSE-3 Comparative Government and politics	DSC-1C( POLS 201)	<ul> <li>Discuss the theory and apply the methodology of comparative analysis within the discipline of political science.</li> <li>Analyze contemporary problems in the countries under</li> </ul>

		<ul> <li>consideration in light of the conceptual frameworks presented in class.</li> <li>Write an analysis of the institutions, political behavior and political ideas of another country.</li> </ul>
COURSE-4 Introduction to International Relation	DSC-1D( POLS 202)	<ul> <li>Identify the names and geographic location of most contemporary states.</li> </ul>
		<ul> <li>Discuss the main international relations theories ,and the values implicit in each of these different ways of looking at the world ,thus giving them the tools necessary to understand the day – to-day events reported in the media .</li> <li>Describe the role of individual and cultural values and perception, and the important of empirical evidence in analyzing international problems.</li> </ul>
COURSE-5 Legislative Support	SEC-1 (POLS 203)	<ul> <li>Demonstrate an understanding of the policy making process by preparing a legislative history of a major law, including an analysis of the statement of Administration policy as well as all stages of the legislative process.</li> <li>Play the role of a member of either institution in an in- class simulation with a high level of authenticity.</li> </ul>
and Survey Research		review for a question

		<ul> <li>in political science research.</li> <li>Design an elite interview protocol.</li> <li>Write up research findings in correct format.</li> <li>Present research findings to an audience using visual aids.</li> </ul>
B.A 3 <sup>RD</sup> COURSE-7 Themes in Comparative Political Theory	DSE-1A POLS 301(A)	<ul> <li>Identify different political philosopher in India.</li> <li>Discuss the role that symbols play in the Political process</li> </ul>
COURSE-8 Democracy and Governance	DSE-1B POLS 302(B)	<ul> <li>Analyze political and policy problems and formulate policy option</li> <li>Accountable ,legitimate ,responsive government</li> <li>Free and fair election</li> </ul>
COURSE-9 Democratic Awareness Through Legal literacy	SEC-3 POLS 303	<ul> <li>Compare and contrast the various theories of constitutional interpretation.</li> </ul>
COURSE-10 Conflict and Peace building	SEC-4 POLS 304	<ul> <li>Identify the core normative philosophy of the field of conflict and peace.</li> <li>Explain the cause of war at several levels of analysis.</li> <li>Describe and analyze cases in the past century in which conflict was resolved without violence.</li> </ul>
COURSE-11 Society, economy and Politics in Himachal Pradesh .	GE-1 POLS 305	<ul> <li>Awareness regarding social, cultural and politics of H.P.</li> <li>Discuss how political factors shapes the policy formulation and implementation.</li> </ul>

		<ul> <li>Discuss the political behaviors of social classes, racial and ethnic groups ,gender and religious society.</li> </ul>
COURSE-12 Human rights Gender and Environment	GE-2 POLS 306	<ul> <li>Concern about major issues of environmental politics.</li> <li>Describe the environmental policy making process ,including the influence of local constituencies on national decision makers.</li> <li>Compare and contrast environment politics with other nation.</li> </ul>

#### **DEPARTMENT OF HISTORY**

Sr.N	Course/Paper	Learning Outcomes	
1	<ol> <li>History of India from the Earliest Times up to 300 CE</li> <li>2.</li> <li>History of India from c. 300 to</li> </ol>	<ol> <li>Students point out strengths and weaknesses of a historical argument with special reference to ancient Indian history.</li> <li>Students understand the historical contexts of different historical interpretations of ancient Indian history.</li> <li>Students compare, contrast, and explain differences between historical accounts related to ancient Indian history.</li> </ol>	
2	<ol> <li>History of India from c. 1206 to 1707 4.</li> <li>History of India from 1707 to 19502.</li> <li>Historical Tourism: Theory and Practice</li> <li>An Introduction to Archaeology</li> </ol>	<ol> <li>Students will be able to demonstrate broad knowledge of medieval historical events of India history and their significance.</li> <li>Students will be able to explain and critique the historical schools of thought that have shaped scholarly understanding of India history.</li> <li>Research Skills. Students will acquire basic historical research skills, including (as appropriate) the effective use of libraries, archives, and databases with special reference to Historical Tourism.</li> <li>Communication Skills. Students will learn to organize and express their thoughts clearly and coherently both in writing and orally.</li> <li>Writing and Intellectual Integration. Students should demonstrate their mastery of the knowledge and skills involved in historical practice by conceptualizing and executing a significant piece of original recearch with special reference to Historical Tourism.</li> </ol>	

3	1. Modern	and	9. Demonstrate a significant degree of knowledge about World history
	world his	story-	through completion of a broad selection of courses in history. 10 Student will be able to formulate basis of modern India through
	1(1870-1	1919)	different concepts like modernity, Rule of Law etc.
	Contemp	porary	11. Students will be able to analyze the process of rise modern India and its foundation made by Social reformer and freedom fighters.
	world his 2(1919-1	story- 1991)	12. Students will be able to categorize different school of thoughts about Modern India history
	<ol> <li>Indian H culture</li> </ol>	istory and	13. Students will be able to analyze social background of Indian
	4. Introduc	ction to	Nationalism 14. Students describe how historical actors are differently affected by
	indian ar 5 social re	rt. ligious	their ethnicity, race, class, and language in India.
	reforms	ents in India	15. Students demonstrate how political, economic, and social structures affect historical change in India.
	(19th an	d 20th	16. Students will be able to explain Political, Administrative and
	century)		Institutions setup of modern Himachal Pradesh.
	6. History	of	
	Himacha	al Pradesh	

#### **DEPARTMENT OF HINDI**

### राजकीय महाविद्यालय सराज (लम्बाथाच)

# हिंदी विभाग

कक्षा	पाठ्यक्रम विषय	पाठ्यक्रम	अधिगम परिणाम
		क्रमांक	विषय समापन पर छात्र उपलब्धि :
बी.ए	प्रयोजनमूलक हिंदी	HIND 101	हिंदी भाषा का व्यवहारिक ज्ञान प्राप्त करने में
प्रथम			योग्य होंगे
वर्ष			
	हिंदी साहित्य का इतिहास	HIND 102	हिंदी साहित्य के स्वरूप , विकास एवं साहित्य
			की पृष्टभूमि को समझने में सक्षम होंगे
	मध्यकालीन हिंदी कविता	HIND 103	हिंदी कविता का अर्थबोध करने, कविता के
			भाव सौन्दर्य को समझने व् काव्य शिल्प के
			ज्ञान प्राप्त करने में में सक्षम होंगे
बी ए	अनिवार्य हिंदी (रचना पुंज )	HIND 201	हिंदी कविता ,कहानी व् निबंध को समझने व्
द्वितीय			साहित्य का अर्थबोध करने के योग्य होंगे
वर्ष			
	आधुनिक हिंदी कविता	HIND 202	आधुनिक हिंदी कविता के नव सृजन दृष्टिकोण
			को समझने व् अर्थबोध करने में सक्षम होंगे
	हिंदी गद्य साहित्य	HIND 203	हिंदी साहित्य की विधा उपन्यास और कहानी
			के स्वरूप व् बिशिष्टता को समझने के योग्य
			होंगे
	कार्यालयी हिंदी	HIND 204	हिंदी भाषा के प्रशासनिक व् कार्यालय संबधी
			प्रयोग को समझने में सक्षम होंगे
	अनुवाद विज्ञान	HIND 206	अनुवाद विज्ञान के विविध क्षेत्रों को समझने
			व् उसके व्यावहारिक प्रयोग को समझ पायेगे
बी ए	रंग आलेख एवं रंगमंच	HIND 301	हिंदी नाटक विधा के स्वरूप को समझने व
ततीय			उसके रंगमंचीय स्वरूप का आकलन करने में
वर्ष			सक्षम होंगे।
	समाचार संकलन और लेखन	HIND 304	हिंदी भाषा का संचार माध्यम के क्षेत्र में
			योगदान व पत्रकारिता के क्षेत्र में हिंदी भाषा
			की उपयोगता को जान पायेगे ।
	लोक साहित्य	HIND 305	हिंदी भाषा की विविध बोलियों के इतिहास
			का अध्ययन व् हिंदी भाषा में उनके सम्बन्ध
			की समीक्षा करने में सक्षम होंगे
	छायावादोतर हिंदी कविता	HIND 306	समकालीन हिंदी कविता के क्षेत्र में विविध
			प्रयोगों व वर्तमान में उसकी उपयोगिता को
			समझने में योग्य होंगे

### **DEPARTMENT OF SANSKRIT**

# राजकीय महाविद्यालय सराज (लम्बाथाच)

# संस्कृत विभाग

कक्षा	पाठ्यक्रम क्रमांक	पाठ्यक्रम	अधिगम परिणाम विषय समापन पर छात्र उपलब्धि :
बी.ए.	SKT- DSC 101	संस्कृत काव्य	संस्कृत के काव्यों का मुख्य प्रयोजन ही व्यवहारिक ज्ञान की प्राप्ति होता है, अतः छात्र-छात्राओं के व्यावहारिक ज्ञान को उन्नत बनाने के लिए संस्कृत काव्यों का अध्ययन एक प्रमुख सोपान हो सकता है।
प्रथम वर्ष	SKT- DSC 102	संस्कृत गद्य काव्य	संस्कृत गद्य काव्य भी काव्य की श्रेणी में ही आते हैं, अतः गद्य काव्य के अंतर्गत विभिन्न परिस्थितियों का वर्णन होता है जिनके अध्ययन से हमें अपने व्यक्तिगत जीवन में अलग–अलग प्रकार की स्थितियों से जूझने के उपायों की जानकारी प्राप्त होती है।
	SKT- DSC 103	नीति साहित्य	नीति साहित्य का अध्ययन छात्र एवं छात्राओं के नैतिक जीवन को उन्नत बनता है।
	SKT- AECC 104	उपनिषद्, श्रीमद्भगवद्गीता तथा पाणिनीय शिक्षा	उपनिषद्, श्रीमद्भगवद्गीता तथा पाणिनीय शिक्षा- उपनिषद् के अध्ययन से सामाजिक भेदभाव तथा सामाजिक विषमताओं जैसी समस्याओं का समाधान होता है।
बी.ए. द्वितीय तर्ष	SKT- DSC 201	संस्कृत नाटक	संस्कृत नाटकों में अनेक स्त्री एवं पुरुष पात्र होते हैं, जिनका संवाद एवं प्रति संवाद विभिन्न घटनाओं के संदर्भ में हमें प्राप्त होता है। संवादात्मक तथा दृश्यप्रधान ग्रंथ होने के कारण व्यक्ति का जीवन में विकास एवं नैतिक उन्नति के लिए नाटक सर्वोपरि हैं
dN	SKT- DSC 202	संस्कृत व्याकरण	संस्कृत व्याकरण के अध्ययन से संस्कृत की भाषा संबंधी वैज्ञानिकता का ज्ञान होता है।
	SKT- DSC 203	व्याकरण एवं संयोजन	व्याकरण एवं संयोजन अध्ययन सामग्री के माध्यम से संस्कृत व्याकरण की व्यवहारिकता एवं लोक में संस्कृत की अनिवार्यता का ज्ञान होता है।
	SKT- AEEC/SEC 205	आयुर्वेद के मूल सिद्धांत	आयुर्वेद प्राचीन भारतीय चिकित्सा पद्धति का एक अनिवार्य अंग रहा है, जिनके ज्ञान से छात्र-छात्राओं की बौद्धिक संपदा में वुद्धि

			होगी
	SKT- AEEC/SEC 206	संस्कृत-छन्द एवं गायन	संस्कृत छंद एवं गायन के माध्यम से संस्कृत के श्लोक तथा कविताओं एवं अन्य रचनात्मक पाद्यों के वैविध्य का ज्ञान होता है।
	SKT- DSC 301	व्यक्तित्व विकास का भारतीय दृष्टिकोण	व्यक्तित्व विकास का भारतीय दृष्टिकोण नामक अध्ययन सामग्री से व्यक्तित्व विकास से संबंधित भारतीय मूल चेतना का अधिगम किया जाता है। तथा छात्र-छात्राओं की व्यक्तित्व विकास की संभावनाओं के स्तर में वृद्धि होती है।
बी.ए. तृतीय	SKT- DSC 302	साहित्यिक समालोचना	साहित्य से संबंधित विषयों पर आलोचनात्मक दृष्टि में वृद्धि के लिए साहित्यिक समालोचना का अध्ययन अनिवार्य प्रतीत होता है।
वर्ष	SKT- GE 303	पतञ्जल योगसूत्र	पतंजलि रचित योगसूत्र में अष्टांग योग जैसी अवधारणाओं का विकास प्राप्त होता है, जो व्यक्तिगत जीवन की उन्नति की पराकाष्ठा है। अतः छात्र-छात्राओं की जीवन को उन्नत बनाने के लिए अष्टांग योग जैसी अवधारणाएं अत्यंत महत्वपूर्ण है।
	SKT- GE 304	भाषाविज्ञान के मूलभूत सिद्धान्त	भाषा विज्ञान के मूलभूत सिद्धांतों के माध्यम से विश्व की समस्त भाषाओं की वैज्ञानिक संरचना, ऐतिहासिक पृष्ठभूमि एवं शब्दों एवं अर्थ संबंधी ज्ञान का अध्ययन होता है।
	SKT- AEEC/SEC 305	भारतीय रंगशाला	भारतीय रंगशाला के अध्ययन से नाट्य मंडप, नाट्य गृह एवं प्राचीन सिनेमाघरों के वैज्ञानिक आधार का ज्ञान संभव है।
	SKT- AEEC/SEC 306	भारतीय वास्तुशास्त्र	भारतीय वास्तुशास्त्र के अध्ययन से प्राचीन भारतीय भवन, प्रासाद इत्यादि निर्माण से संबंधित वैज्ञानिक संपदा का ज्ञान होता है।