PROGRAMME OUTCOMES:

2.6 Student Performance and Learning Outcomes	
Department of Chemistry	

	Department of Chemistry	
Programme Outcomes And Programme Specific Outcomes	The purpose of the undergraduate chemistry program is to provide the key knowledge base and laboratory resources to prepare students for careers as professionals in the field of chemistry, industrial chemistry for graduate study in chemistry, biological chemistry and related fields. To inculcate the scientific temperament in the students and outside the scientific community. Able to analyse soil, water, fertilizers, fuel, cement, paints and pigments, to gain knowledge in spectroscopical methods. There is scope for problems identification, problem solving, self expression, crisis management, interacting and involving in the community & enterprising presentation. To explain nomenclature, stereochemistry, structures, reactivity, and mechanism of the chemical reactions. Understand good laboratory practices and safety. At the end of three years, the students will be equipped with a certificate with the conventional degree in science.	

Course Outcomes	
Course	Outcomes
BSc I – DSC-CHEM-IA	It is provide a great deal of information about Properties of Electrons,
Inorganic:	Protons and Neutrons. Gives the Meaning of Atomic Number and
Atomic	Atomic mass and Isotopy.
Structure, Chemical Periodicity,	Periodicity provides the location of elements and properties of
Chemical bonding and	elements.
Molecular structure, Ionic	Chemical bond is the attraction between atoms, ions or molecules that
Bonding, Covalent bonding,	enables the formation of compounds.
Molecular Orbital approach.	To gives the idea about some fundamental topics of Organic chemistry
Organic:	such as Aromaticity, Nucleophile, Electrophile, cleavage of bonds and
Fundamentals of Organic	Huckel's rule.
Chemistry, Stereochemistry,	Students will understood the Conformations of organic compounds
Aliphatic Hydrocarbons,	and Isomerism in Organic compounds.
Alkanes, Alkenes, Alkynes.	Students experience types of Hydrocarbons and properties of different
	type of hydrocarbons

BSc II – DSC-CHEM-IB Physical: Thermodynamics and the laws of Thermodynamics, Ionic Equilibria. Inorganic: s-Block elements. Organic: Aromatic hydrocarbons, Alkyl halides, Aryl halides, Alcohols, Phenols, Ethers, Aldehydes, ketones.	. To understand the term Thermo dynamics and general characteristics of laws of thermodynamics To understand the types of Electrolytes, properties of different typesof electrolytes. To understand the general characteristics of the s-block elements. To give an elementary idea of Aromatic hydrocarbon and its reactions. To impart the students a thorough knowledge about structures and properties of Alkyl halides, Aryl halides, Alcohols, Phenols, Ethers, Aldehydes and Ketones.
BSc III – DSC-CHEM-IC Physical Solutions, phase equilibrium, conductance, electrochemistry, p-block elements, Organic: Amines and diazonium salts, Amino Acids, peptides and protiens, Carbohydrates	It gives a thorough knowledge of solutions, its laws, miscibility of liquids and the effect of temperature on miscibility. It gives thorough knowledge of phase equilibrium and conductance of Solution. To have an idea about the important aspects of electrochemistry. To give an elementary idea of amines and Diazonium salts, amino acids, peptides and proteins, to have an overview of different structure of proteins. It gives basic knowledge on carbohydrates.
BSc IV – DSC-CHEM-ID Transition elements Coordination chemistry Crystal field theory Physical chemistry; Kinetic theory of gases Liquids Solids Chemical kinetics	To understand the general characteristics of the d and f block elements. It gives an elementary idea of VBT, and crystal field theory. To provide an insight into the kinetic aspects, chemical equilibrium of reactions and gases. To enable them understand about the properties of liquids like viscocity, surface tension. It gives an elementary idea of solids, X-Ray crystallography.

BSc V-SEC-CHEM-1	It gives an insight of Analytical data ,errors.
Basic analytical chemistry	It gives a knowledge of analysing soil, water and food products.
Analysis of soil	To give students a comprehensive understanding of principles of
Analysis of water	chromatography
Analysis of food products	
Chromatography	
BSc V-SEC-CHEM-2	
Pharmaceutical Chemistry and	It gives a basic knowledge of design and development of drugs
Fermentation.	and
	The types of fermentation.

BSc V – DSE-CHEM-I Evaluation of analytical data, Gravimetric Analysis, Spectroscopic Analysis, Organometallic compounds, Heterocyclic compounds, Colligative properties and Thermodyanmics-II	. To understand the thorough knowledge of theoretical aspects of analytical data, theory of gravimetry analysis, Heterocyclic compounds, Grignard reagent and Sulphur compounds. To impart the students a thorough knowledge about the selected heterocyclic compounds, various organic synthesis. It gives an elementary idea of the characteristics, fundamentals of NMR Spectroscopy and Colligative properties.
BSc VI –SEC- CHEM-3 Fuel Chemistry BSc VI –SEC- CHEM-4 Chemistry of Cosmetics and Perfumes.	To provide an insight into the fuel chemistry,i.e.coal and petrochemical chemistry and Lubricants. To make students capable of understanding the concept of cosmetics, its preparation and perfumes.
BSc VI – DSE-CHEM-2 Industrial Chemistry,Oils,fats, Soaps and detergents, Synthetic polymers,Synthetic dyes,Alkaloids,Terpenes,Hormones and Vitamins,Protection and deprotection of functional groups. PHYSICAL CHEMISTRY Molecular spectroscopy,Electrochemical Energy sources and Radiation chemistry.	It enables them to have an Industrial knowledge of cement, ceramics, paints and pigments. To get an overview about the chemotherapy & soaps and detergents. It gives knowledge of synthesis of polymers, dyes. To impart essential theoretical knowledge on Alkaloids, Terpenes, Hormones and Vitamins. It gives an insight about Molecular spectroscopy, about dry cell and secondary cell. It throws knowledge on Radiation Chemistry.

	Department of Commerce
	Develops management skills.
	Develops entrepreneurial ability
	Develops numerical ability.
	Well familiar with business regulatory framework
Programme Outcomes	Having basic knowledge of important business laws and basic principles of economics.
	Develops basic computer skills, programming skills and accounting information system with Tally.
	To build strong foundation of knowledge of commerce in different areas.
	To develop the skills of various technical uses in commerce.
	To develop an attitude of strong morale in staff competition.
	To promote students about entrepreneurial development.
	To develop a strong platform of commerce activities.
	To develop quality leadership in financial area.
	Students will be able to demonstrate progressive learning of various
Programme Specific Outcomes	tax issues and tax forms related to individuals, students will be able to demonstrate knowledge in setting up a computerized set of accounting books.
	Students will demonstrate progressive affective domain development of values, the role of accounting in society and business.
	Students will learn relevant managerial accounting career skills applying both quantitative and qualitative knowledge to their future careers in business.
	Learners will be able to do higher education (e.g. M.Com., C.A.,
	ICWA) and advance research in the field of commerce & finance.
	Course Outcomes
Course	Outcomes
Financial Accounting	To provide basic knowledge about the accounting principles and procedures.
Secretarial Practice	To enlighten the students' knowledge on companies act and secretarial practices.
Business Economics	To understand how the business organizations work by applying economic principles in their business.
Business Environment	To provide the basic knowledge on the meaning conveyed by the word 'Business', understand the various forms of business and impact of various concerts on business anyironment.
Markating Management	impact of various aspects on business environment.
Marketing Management	Enable the student to understand the principles of marketing management, market segmentation Product Life Cycle, pricing, branding, etc.
Accounting Theory	To familiarize students with various theories of accounting.

Retail Management	To familiarize students with the decision involved in running a retail
Banking Law and Practice	firm and the concepts and principles for making those decisions. To enlighten the students' knowledge on Banking Regulation Acts. After the successful completion of the course the student should have
	a thorough knowledge on Indian Banking system and Acts pertaining to it.
Corporate Accounting	To enlighten the students on accounting procedures followed by the companies and enable them to be aware on the Corporate Accounting in conformity with the provision of the Companies Act.
Economics	To make the student to understand how the business organization work by applying economic principles in their business management
Principles of Entrepreneurship Development	To make students well versed in concept relating to entrepreneur, knowledge in the finance institution and subsidies.
Business Statistics	To inculcate knowledge on demonstrate understanding of basic concepts of probability and statistics embedded in their course.
Business Communication	To enable the students to develop employability skills for the workplace with effective written and oral communication skills.
Modern Business Law	To inculcate knowledge of various laws related to business such as law of contact, law of sale of goods, law of agency, negotiable instruments act, etc
Financial Management	To inculcate knowledge on the basic accounting concepts, double entry book keeping system and various books of accounts preparation of final accounts, etc.
Management Accounting	Imparting the knowledge about accounts in management.
Income Tax	The course aims to provide an in-depth knowledge on the provisions of income tax. To familiarize the students with recent amendments in income tax.
Costing	To keep the students conversant with the ever-enlarging frontiers of Cost knowledge.
Indian Financial Markets	Imparting about financial markets.
Goods and Service Tax	The course aims to provide an in-depth knowledge on the provisions of Goods and Service Tax. To familiarize the students with recent amendments in GST.
Auditing Practice	Familiarizing the students with auditing principles and practices.
Indian Financial Services	To familiarize students with various Indian Financial Services.
Computer Applications	Gives the deeper understanding to students of both information technology and commerce, thereby enabling the budding graduates to pursue careers in either of the two fast growing industries viz. IT Industry, Commerce and Financial sector.

Department of Kannada	
Programme Specific Outcomes	Enabling the students to analyse and review the literary work.
Optional Kannada	To acknowledge original sources of Kannada culture and literature.

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	Enabling students to obtain higher education in Kannada literature and criticism.
	Enabling students to compose novels, poetry, essays, short stories, etc.
	Enabling students to read and appreciate the old or ancient Kannada.
	To equip the students to become the teachers and journalists
	Students are expected to be able to comprehend and interpret minimum
	literary texts, poems, essays, short stories.
	To understand and reflect on literary trends and analyse the contribution of the Kannada writers.
Programme Specific Outcomes Basic Kannada	To develop confidence in the four skills; Listening, Speaking, Reading and Writing.
	To be able to develop minimum vocabulary built up required to structure out their thought.
	To be able to draft letters, reports, dialogues and the like.
	Course Outcomes
Course	Outcomes
B.A. I: Ancient and Medieval	Students are enabled to understand the range, significance and scope
Kannada Literature.	of ancient and medieval literature.
B.A. II: History of Modern	Students are acquainted with the knowledge of history of modern
Kannada Literature.	Kannada literature.
B.A. III: Indian and Western	Enablement of students to understand and analyse Indian and
Poetics and Critical Theories.	western poetics and critical theories.
B.A. IV: Kannada Prosody and	Students will be aware of the importance of the knowledge of
Figures of Speech.	Kannada prosody and figures of speech in Kannada poetry.
B.A. V: Traditional Kannada	Students are enabled to have a holistic idea of the traditional
Grammar and Kannada	Kannada grammar and Kannada Linguistics.
Linguistics.	
B.A. VI: Novel, Drama,	Enablement of students to understand and appreciate novel, drama,
Travelogue, Criticism, Research	poetry, travelogue, critical essays. The will be aware of the critical sense about literary texts.
B.Sc./B.Com. Basic	Students are acquainted with literary texts, short stories, poems and
Selected Poetry and Prose	knowledge of perfect spoken Kannada.
B.A. Basic	Development of self directed understanding of high Kannada
Selected Poetry and Prose	language and capability of self-expression.
	Department of English
Programme Specific Outcomes Optional English	Literary acumen: Through exposure to great literature, students will understand the importance of the literature of the past and contemporary cultures and to equip them to find connections and
	constitutes.

Culture Integration: Students will be aware of the importance of the coexistence of different cultural prospective and be tolerant to views

	different from their own. The course seeks to enable students to use their study of literature to initiate cultural, ethical and global awareness.
Programme Specific Outcomes Basic English	Academic Writing: The students will be able to develop an argument in writing, state facts clearly arrive at a clear conclusion using appropriate vocabulary and synthetic structures. The students will learn to read, analyze and interpret works of literature, to acquire them with the forms, structures and the aesthetics of style and technique of literary works. They are enabled to have skills of interpretation analysis, appreciation of literature as well as writing and presentation skills. That would eventually help in careers like journalism and media, publishing, research and teaching. To be able to comprehend and interpret minimum literary texts (poems, essays, short stories)
	To understand and reflect on literary tends and analyze the contribution of the British writers and the Indian writers in English.
	The learner should develop confidence in the four skills (listening, speaking, reading and writing)
	To be able to do short tasks like drafting letters/ dialogues/ reports and the like.
	Minimum vocabulary build up, required to structure out their thoughts.
	Course Outcomes
Course	Outcomes
BA I – History of English Literature, Bacon's Essays, Structure of literature and Literary Forms & Terms.	Enablement of students to understand and the range, significance and scope of English Literature. They are enabled to understand Bacon's essays, Literary forms and terms.
BA II – History of English Literature, Rape of the Lock, Study of Literature and Literary Forms and Terms.	Enablement of students to understand and appreciate English Literature, drama, literature and forms.
BA III – History of English Literature, Selected Poems and Modern English Grammar	Empowerment of the students to critically understand analyze poems across a wide range of literary age and context. Students are also enabled to learn the rules & structure of English language by learning English grammar.
BA IV – History of English Literature, Selected Short Stories and General Linguistics.	Advancement of their acquaintance with the English writers of modern age. Development of critical creative writing by studying short stories.

BA V – Literary Criticism	Paper I: Enablement of students to understand and appreciate the
Paper I: History of Indian	critical literary essays. They are enabled to develop the critical sense
English Literature	about literary texts.
Paper II: Selected Poems,	Paper II: Development of awareness towards the problems of
Translation Studies	interpreting Indian culture via the English language and acquaintance
	with work of significance Indian writers of poetry, prose and fiedion.
	They are enabled to understand the basic concepts of translation.
BA VI	Paper I: Enablement of students to understand and appreciate the
Paper I: History of English	classics and literary theories.
Language, English Phonetics.	Paper II: A holistic idea of the distinctive features of history of
Paper II: Classics Drama &	English language. Students are enabled to develop critical idea about
Social Work and Literary	literary theories.

velopment of considerable acquaintance of the students with
erary texts short stories, poems & the knowledge of grammar and
oken English.
velopment of self-directed understanding of high language and
pability of self expression.
idents are enabled to understand their moral responsibilities. They
able to understand the right path based on the value system.
velopment of environmental awareness. Development of
pability of expression their ideas clearly.
idents are enabled to understand and appreciate the novel.
velopment of eco-awareness among students. They are able to
press freely and respond to the communications of others in
eech writing.
press freely and respond to the communications of

	Department of Hindi
Programme Specific Outcomes Optional Hindi	Through exposure to great Hindi literature, students are able to develop literary acumen. They are enabled to equip themselves to find connections and continuities.
	Students will be aware of the importance of cultural integration. The course enables students to use their study of literature to initiate cultural, ethical and global awareness.
	The students are able to state facts clearly and arrive at a clear conclusion.
	They are able to read, analyse and interpret literary texts and the aesthetic style and techniques of writing.
	They are enabled to have writing and presentation skills that would eventually help in careers like journalism, teaching and research.

Programme Specific Outcomes Basic Hindi	To be able to speak in Hindi and develop confidence in the study skills, listening, reading, writing and speaking. To be able to build up vocabulary and structure out their thoughts. To be able to learn language skills and techniques. To be able to learn problem solving and presentation skills.
	To be able to prepare for higher education.
	To encourage the students with T.V. medias and mass medias. Course Outcomes
Course	Outcomes
BA I – History of Hindi Literature, (Adikal) Early period and short stories	Enablement of students to understand the range, significance and scope of early Hindi literature. Students are also enabled to understand the themes of Hindi short stories.
BA II – Hindi poetry and Grammar	Enablement of students to critically understand and analyse Hindi poetry across a wide range of literary age and context. They are also enabled to learn the rules and structure of Hindi language.
BA III – Epillon – Narrative poetry and History of Hindi Literature – Bhaktikal and Reetikal	Students are enabled to have critical insight into Hindi narrative poetry. They are also enabled to understand the range and significance of Hindi literature.

BA IV – One-Act Plays and Grammar	Students are inspired to write one-act plays by reading famous Hindi one-act plays. They are enabled to build-up vocabulary to structure out their thoughts in Hindi language.
BA V – Paper I: Drama and Medieval Poetry.	Development of self directed understanding of high language and capability of self-expression by studying drama and medieval poetry.
BA V – Paper II: History of Hindi Literature – Modern Age, Prosody and Figures of Speech.	Advancement of students' acquaintance with the Hindi writers of modern age. Development of critical creative writing by studying prosody and figures of speech.
BA VI Paper I: Novel – The study of official correspondence and translation	Students are enabled to understand and appreciate the novel and its thematic significance. They are also able to develop written communication skills by studying official correspondence. They are also enabled to develop translation skills.
BA VI Paper II: Poetics and Literary criticism of Hindi Language and Philosophy.	Students are able to understand and appreciate poetics and Hindi Literary critical essays. They are enabled to have a holistic idea of the distinctive features of History of Hindi Language and Philosophy.
B.Sc. I Sem Basic: Indian Short Stories, Grammar and Composition.	Students are acquainted with literary texts, short stories and the knowledge of grammar and spoken Hindi.
B.Sc. II Sem Basic: Poetry, General Essays and Translation	Students are enabled to understand their moral responsibilities by studying various poems and essays. They are able to translate from source text to target text.

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B.Sc. III Sem Basic: Drama	Students are inculcated with moral, cultural, ethical values by
and Translation	studying eminent Hindi dramas. They also imbibe translation skills.
B.Sc. IV Sem Basic: Prose and	Students are able to comprehend and interpret minimum literary
Translation	texts, essays, short stories. They are also enabled to understand the
	difficulties of translation.
	D
	Department of History
	Protection historical monuments.
	Creation of historical awareness among the students and people of society.
Programme Specific Outcomes	Growing opportunities for the development of tourism.
1 Togramme Specific Outcomes	Creation of the sense of communal, religious and social harmony
	among the students and people of society.
	Creation of the sense of concept about the historical script and
	development language.
	Course Outcomes
Course	Outcomes
BA I – History and Culture of	Understanding the basic objectives of historical monuments.
Karnataka (Early times to 1336	
A.D.)	
BA II – History and Culture of	To inculcate sense of History among students and saving the
Kannada (1336 to 1956 A.D.)	historical heritage, monuments.
BA III – History and Culture of	To preserve ancient inscriptions, sculptures, etc.
Ancient India (Early times to	To preserve ancient inscriptions, sculptures, etc.
Cholas)	
BA IV – History and Culture	To preserve ancient inscriptions, sculptures, etc.
of Medieval India (1000 to	r · · · · · · · · · · · · · · · · · · ·
1707 A.D.)	
BA V – Paper I: History of	To promote historical knowledge among students and public.
Modern India (from 1707 to	
1905)	
BA V – Paper II: History of	To promote historical knowledge among students and public.
Modern Europe (from 1450 to	
1914 A.D.)	
BA VI Paper I: History of	To creating public awareness on the importance of International
Modern India (from 1905 to	History and Heritage.
1956)	
BA VI Paper II: History of	Understand the behavior of Indian World History.
Modern Europe (from 1914 to	
1990 A.D.)	
Department of Sociology	

	Making the students to understand the sociological approach, this is
	distinctive from other people.
	Make the students to understand the social ethics of thinkers of different
Programme Specific Outcomes	ages.
	Job opportunities are available in various departments.
	To make the students to understand the methodology of social
	contemporary situation.
	Easily know the valuable problems of life.
	Course Outcomes
Course	Outcomes
BA I – Introduction to	It is an introductory paper which intends to make the students to
Sociology	acquaint which sociology as a social science.
	It is to understand the dynamics of sociology.
BA II – Community,	To understand the nature, structure & features of communities.
Institutions, Culture and Social	Make the students to be acquainted with basic social institutions.
Change	
BA III – Study of Indian	To understand the nature of development of social thought. To
Social Thought	understand the views of ancient Indian theories.
BA IV – Study of Western	Make the students to understand the basic theories of western social
Social Thought	thought.
	To make the students to understand the methodology of social
	sciences.
BA V – Paper I: Study of	Make the students to understand the Indian Society.
Indian Society	To understand the actual nature of Indian Social System.
	Make the students to understand the rural development in India.
Development in India	To understand the local tenure system & reforms, Panchayat Rajya
	System.
BA VI Paper I: Social	To understand the nature & causes of changing crimes in India. To
Problems in India	understand the nature of Vulnerable problems of Life.
BA VI Paper II: Urban Society	To understand about the evolution of cities and urban communities. To
in India	make the students to be aware with urban problems in India.
	Department of Political Science
Programme Specific Outcomes	Understand the basic concept of political science.
Programme Specific Outcomes	Inculcate the basic principle of Indian Constitution
	<u>, </u>
	Understand the application of Human Rights in practice.
	Primary knowledge of Public Administration.
	Analyze the political behavior of voters.
	Course Outcomes
Course	Outcomes
BA I – Political Theory	Understand basic objectives of political theory. It is to understand the
•	dynamics of Political Science.
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BA II – Eastern and Western Political Theories.	To understand the political thinkers & their political ideas & thoughts
BA III – Indian Government and Politics.	To understand the Indian Government and Politics.
BA IV – Karnataka	Understand Karnataka Government & Politics. Confiscation of the
Government and Politics	Karnataka & Legislate & Judiciary system.
BA V – Paper I: Public	To understand Public Administration. Appointment, Training,
Administration	Retirement organization, etc.
BA V – Paper II: Indian	To understand Indian Administration (Central & State Relations)
Administration	
BA VI Paper I: International	To understand the SAARC, NATA, SAT, G20, WTO, UNO, Foreign
Relationship	Policy, etc.
BA VI Paper II: Political Process and Institution in India	To understand parliamentary system, democracy, federal system, Indian party system, election, coalition politics.
	Department of Physics
	Understand the dept knowledge of various subjects of Physics.
	Providing high quality education in physics within an environment
	committed to excellence in both teaching and research.
	Educating students in the core of physics, including substantial
	practical and experimental physics, while enabling students to train in
	both the theoretical and practical aspects.
	Usage of mathematics in physics equations to describe, interpreting
	results and critically comparing them with experiment and
Programme Specific Outcomes	observation.
	Perform job in various fields' viz. Science, Engineering, Education,
	Banking, Business and Public Service, etc with precision, analytical
	mind, innovative thinking, clarity and expression, systematic
	approach.
	To be able to do short tasks like drafting letters/ dialogues/ reports and
	the like.
	Minimum vocabulary build up, required to structure out their thoughts.
	Course Outcomes
Course	Outcomes
BSc I – Mechanics and	The properties of solids like elasticity help the students to identify the
Properties of Matter	materials suitable for the construction of buildings, houses, etc.
Troportios of Muttor	Properties of fluids like viscosity and surface tension help the
	students in their daily life and agriculture.
	This syllabus will cater the basic requirements for their higher
	studies. This course will provide a theoretical basis for doing
	experiments in related area.
BSc II – Sound and Thermal	Understand the importance of Thermo-dynamical functions and

Dhysics	applications of Mayyyall's relations
Physics	applications of Maxwell's relations. Analyses thermal conductivity and black body radiation.
	This course is to develop a working knowledge of sound & thermal
	mechanics and to use this knowledge to explore various applications
	related to topics in material science.
BSc III – Geometrical Optics	Realize the importance of cardinal points & the natural behavior of
and Electricity – I	aberration in lens.
	Electricity and Electrodynamics have the key role in the development
	of modern technological world.
	This course aims to provide necessary foundation in optics and
	electricity which prepare the students for an intensive study of
	advanced topics at a later stage.
BSc IV – Physical Optics and	With the help of wave nature of light, understand the process of
Electricity – II	polarization, interference and diffraction.
	Study in depth the transient current response of CR, LC, CR and
	LCR circuits, which is essential in designing as well as understanding
	the working of electronic circuits.
	A course in electricity and electrodynamics is thus an essential
	component of Physics program at graduate level. This course is
	expected to provide a sound foundation in electricity and
	electrodynamics.
BSc V – Classical Mechanics,	Fundamental ideas of special theory of relativity such as length
Electronics, Relativity,	contraction and time dilation and mass – energy invariance.
Quantum Mechanics and	To become familiar with photoelectric effect and Comton effect and
Spectroscopy	hence be aware how quantum theory emerged & have gained a clear
Бреспозсору	knowledge about wave properties of particles, De Broglie waves and
	its implications on the uncertainty principle.
	This course is a prelude to advanced theoretical studies in Condensed
	Matter Physics, Spectroscopy, Astrophysics, Electrodynamics and
	Nuclear Physics.
BSc VI – Solid State Physics,	Qualitative ideas about solar energy, physical principle of conversion
Nuclear Physics, Energy	of solar energy into heat energy, solar energy harvesting devices like
Sources, Digital Electronics,	solar cells, solar cookers, solar greenhouses, etc.
Special Materials, Integral	Have a basic knowledge of semiconductor physics, acquire
Transforms, Optoelectronics,	knowledge about how a semiconductor diode rectifies an input ac
Communication,	signal & learn how to construct a transistor amplifier and how its
Programming, Integrated	gain varies with frequency known about various number systems and
Electronics.	their applications.
Licetonics.	This course is intended to give an insight to computer hardware and
	computer applications. Students will familiarize with
	microprocessors which are the backbone of computers. C
	programming enables the students to develop computer programs
	which can solve mathematical equations which will be useful for
	research and job.
Department of Mathematics	

	Describe several areas of Mathematics beyond calculus.
	Express their interest in Mathematics.
	Explain why Mathematical thinking is valuable in daily life.
	Solving model applied problems.
Programme Specific Outcomes	Describe the library research skills in the area of Mathematics.
	Discuss Mathematics in historical context with contemporary nonmathematical events.
	Identify significant contributions in Mathematics from women to outside of Europe.
	Course Outcomes
Course	Outcomes
BSc I: Real Numbers, Limits	Solving the example on limits by using L.Hospital rule.
and Continuity, Higher Order	Solve applied problems using matrices.
Derivatives, Mean Value	Students will be able to formulate problem in the language of sets.
Theorems, Indeterminate	Solve system of linear equations by using matrices.
Forms, Determinants,	The state of the s
Matrices, Set Theory, Theory	
of Equations, Trigonometry.	
BSc II: Boolean Algebra,	Calculus concepts.
Number Theory, Sphere, cone	Define & interpret divisibility, congruence & greatest common
and Cylinder. Differential and	deviser, prime power factorization.
Integral Calculus.	Derivation of standard equations of sphere, cone and cylinder.
	Formulate & interpret statement present in Boolean lattice.
BSc III: Mathematical Logic,	Use definitions of convergence as they applied to sequence &
Real Analysis I & II, Group	functions apply the mean value theorem.
Theory I & II, Applications of	Direct, indirect & disprove by counter example.
Definite Integrals, Deferential	Distinguish between the concept sequence & series.
Equations I & II	Assess properties implied by definitions of groups, subgroups, cyclic
	groups, Lagrange's theorem.
	Model physical phenomenon using differential equation.
	To find the area of specific curves.
BSc IV: Vector Calculus,	Represent vector analytically & geometrically and compute dot &
Infinite Series I, II, III, Group	cross product of two and three vectors.
Theory III, Fourier Series,	Differential gradient vectors.
Fourier Transforms,	Assess properties implied by differentiations of normal subgroup,
Differential Equations III &IV	quotient group & examples.
	Evaluate Fourier coefficients.

BSc V: Riemann Integration:	Evaluate double & triple integration & its application.
Improper Integrals, Beta &	Determine the Riemann integrability of a bounded function.
Gamma Functions, Multiple	Solve problems in dynamics system.
Integrals.	Number of applications to scientific and engineering problems.
Solutions of algebraic and	Demonstrate their understanding how physical phenomenon are
transcendental Equations,	modeled by differential equations & dynamics.
Numerical solutions of	To find the geodesic curve, right circular cone and Euler Theorem.
nonhomogeneous systems.	Explain the basic concept of recursion.
Finite Differences	
Interpolation,	
Numerical Differentiation and	
Integration. Solution initial	

volve moblems Difference			
value problems, Difference			
Equations, Kinematics, Central			
Orbit Motion of Projectile,			
Elastic Impact, Calculus of			
Variations.			
BSc VI: Differential	Analyse I & II Order Differential Equations, Legendre Equations.		
Equations, Series Solutions of	Real line as a complex order field. Determine the basic topological		
Ordinary Differential	properties of the subsets of the real numbers.		
Equations, Legendre Equations	Assess properties implied by differentiations of rings isomorphism		
and Functions. Partial	homomorphism of rings. Ideal of a ring.		
Differential Equations of 1st	Represent a complex numbers algebraically & analytically.		
Order, Linear & Non-Linear	Define & analyse limits & cty for complex valued functions.		
PDE Complex Analysis &	Illustrate the convergence properties of power series.		
Integration Rings & Integral			
Domains. Topology & Laplace			
Transforms.			
	Department of Botany		
	Students understand the normal & anomalous secondary growth in		
	local plants.		
	Students develop skill in simple biochemical laboratory procedures.		
	Students enhance the ability & thinking power about the pathogens		
	that cause disease to plants.		
Programme Specific Outcomes	Students have developed ethical approach not to the plants &		
	conserve forest.		
	It helps the students to evaluate the performance of multiplication		
	technique & seed storage techniques.		
	Students gain the knowledge about biotechnological applications in		
	plants for the GMO.		
Course Outcomes			
Course	Outcomes		
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BSc I: Plant Anatomy and	Students are able to understand the internal structures of plants &
Embryology	developmental pattern.
	Students are able to understand the process of pollution &
	fertilization in vascular plants.
	Students understand the normal & anomalous secondary growth in
	local plants.
BSc II: Plant physiology and	Students develop skill in simple biochemical laboratory procedures.
Biochemistry.	Students are able to understand & explain the concept of Enzyme
	activities in plant metabolism.
	Students are able to understand the significance of biomolecules.
BSc III: Diversity of	Students enhance the ability & thinking power about the pathogens
Cryptograms (Algae, Fungi,	that cause disease to plants.
Bryophytes, Pteridophytes,	Students are equipped with skill related to lab & field based studies.
Gymnosperms, Plant	Understand the scope & importance of plant pathology.
Pathology and Paleobotany)	Students are able to know the prevention & control measures of plant
	disease.
BSc IV: Diversity of	Students are aware of economically important plants which can be
Angiosperms their systematic,	used in pharmaceutical industries.
Economic Botany & Medicinal	Students develop knowledge about various highly evolved plant

Botany.	groups and their community structure.	
BSc V: PI-Plant breeding,	Students have developed ethical approach not to the plants &	
Tissue culture & Horticultural	conserve forest.	
practices.	Students are able to analyse the evolution with general characteristics	
PII-Ecology, Environmental	for future aspects.	
Biology & Phytogeography.	It helps the students to evaluate the performance of multiplication	
	technique & seed storage techniques.	
BSc VI: PI-Cell biology,	Understand the biochemical nature of Nucleic acid their role in living	
Genetics & Evolution.	systems.	
PII-Molecular Biology,	Understand the concept of cell & their activities.	
Biotechnology & Immunology.	Students gain the knowledge about biotechnological applications in	
	plants for the GMO.	
Department of Zoology		
	Understand the bases of life processes in the non-chordate & recognize	
Programme Specific Outcomes	the economically important invertebrate fauna.	
	Students are able to understand the importance of immune systems.	
	Students are able to recognize the importance of conservation of wild	
	life.	
	Learn the basic principles involved in the breeding of Desi breeds.	
	Students apply the knowledge to collect various biological data in	
	their future research work.	
Course Outcomes		

BSc I: Biology of Non- Chordates & Parasitology. Able to identify the invertebrates & classify them up to the class level with the bases gained knowledge. Understand the bases of life processes in the non-chordate & recognize the economically important invertebrate fauna. Apply the scientific methods in order to prevent disease. BSc II: Biology on NonChordates & Comparative Anatomy. BSc III: Developmental Biology, Animal Physiology & Biochemistry. BSc IV: Cell Biology, Histology & Animal Behaviour. BSc IV: PI- Ecology, Evolution, Paleontology, Zoogeography, Wild Life Conservation. PII- Genetics, Biotechnology and Biostatistics. BSc VI: PI- Appled Zoology. BSc VI: PI- Appled Zoology. PII- Microbiology, Aware about the economically important animals. Familiar with the non-Chordate World that surrounds us. Able to identify the vertebrates & classify them up to the class level with the bases gained knowledge. Students understand the importance of immune systems. Students are able to understand the importance of immune systems. Students are able to understand the process cell division in all organisms. Students are able to understand the behavioral response in domestic animals. BSc V: PI- Ecology, Evolution, Paleontology, Students are able to recognize the importance of conservation of wild life. Students are able to distinguish classical genetics & molecular genetics. Students are able to distinguish classical genetics & molecular genetics. Students apply the knowledge to collect various biological data in their future research work. Helpful to study the nearby ecosystem. BSc VI: PI- Appled Zoology. PII- Microbiology, Identify various methodology & prospective of applied branches of		
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Understand the bases of life processes in the non-chordate & recognize the economically important invertebrate fauna. Apply the scientific methods in order to prevent disease. BSc II: Biology on NonChordates & Comparative Anatomy. BSc III: Developmental Biology, Animal Physiology & Students are able to understand the importance of immune systems. Students understand the initial development process in human. To learn clinical procedures for blood & urine analysis. Students develop skill in simple biochemical laboratory procedures. BSc IV: Cell Biology, Students are able to understand the process cell division in all organisms. BSc V: PI- Ecology, Evolution, Paleontology, Zoogeography, Wild Life Conservation. PII- Genetics, Biotechnology and Biostatistics. BSc VI: PI- Appled Zoology. BSc VI: PI- Appled Zoology. Able to identify the vertebrates & classify them up to the class level with the bases gained knowledge. Students are able to understand the importance of immune systems. Students are able to understand the process cell division in all organisms. Students are able to understand the behavioral response in domestic animals. Students are able to recognize the importance of conservation of wild life. Students are appreciated the contribution of the great scientist & motivated. Students are able to distinguish classical genetics & molecular genetics. Students apply the knowledge to collect various biological data in their future research work. Helpful to study the nearby ecosystem.	Chordates & Parasitology.	Able to identify the invertebrates & classify them up to the class level
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Anatomy. BSc III: Developmental Biology, Animal Physiology & Biochemistry. BSc IV: Cell Biology, Animal Behaviour. BSc V: PI- Ecology, Evolution, Paleontology, Zoogeography, Wild Life Conservation. PII- Genetics, Biotechnology and Biostatistics. BSc VI: PI- Appled Zoology. With the bases gained knowledge. Students are able to understand the importance of immune systems. Students are able to understand the process in human. To learn clinical procedures for blood & urine analysis. Students are able to understand the process cell division in all organisms. Students are able to understand the behavioral response in domestic animals. Students are able to recognize the importance of conservation of wild life. Students are appreciated the contribution of the great scientist & motivated. Students are able to distinguish classical genetics & molecular genetics. Students apply the knowledge to collect various biological data in their future research work. Helpful to study the nearby ecosystem.	BSc II: Biology on	Familiar with the chordate world that surrounds us.
BSc III: Developmental Biology, Animal Physiology & Biochemistry. Biochemistry. Biochemistry. BSc IV: Cell Biology, Histology & Animal Behaviour. BSc V: PI- Ecology, Evolution, Paleontology, Zoogeography, Wild Life Conservation. PII- Genetics, Biotechnology and Biostatistics. BSc VI: PI- Appled Zoology. Students are able to understand the process cell division in all organisms. Students are able to understand the behavioral response in domestic animals. Students are able to recognize the importance of conservation of wild life. Students are appreciated the contribution of the great scientist & motivated. Students are able to distinguish classical genetics & molecular genetics. Students apply the knowledge to collect various biological data in their future research work. Helpful to study the nearby ecosystem. Aware about the economically important animals.	NonChordates & Comparative	Able to identify the vertebrates & classify them up to the class level
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BSc IV: Cell Biology, Histology & Animal Behaviour. BSc V: PI- Ecology, Evolution, Paleontology, Zoogeography, Wild Life Conservation. PII- Genetics, Biotechnology and Biostatistics. PII- Genetics, Biotechnology BSc V: PI- Appled Zoology. BSc VI: PI- Appled Zoology. BSc VI: PI- Appled Zoology. Aware about the understand the process cell division in all organisms. Students are able to understand the behavioral response in domestic animals. Students are able to recognize the importance of conservation of wild life. Students are appreciated the contribution of the great scientist & motivated. Students are able to distinguish classical genetics & molecular genetics. Students apply the knowledge to collect various biological data in their future research work. Helpful to study the nearby ecosystem. BSc VI: PI- Appled Zoology. Aware about the economically important animals.	Biochemistry.	To learn clinical procedures for blood & urine analysis.
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Conservation. PII- Genetics, Biotechnology and Biostatistics. Students are able to distinguish classical genetics & molecular genetics. Students apply the knowledge to collect various biological data in their future research work. Helpful to study the nearby ecosystem. BSc VI: PI- Appled Zoology. Aware about the economically important animals.	Evolution, Paleontology,	life.
PII- Genetics, Biotechnology and Biostatistics. Students are able to distinguish classical genetics & molecular genetics. Students apply the knowledge to collect various biological data in their future research work. Helpful to study the nearby ecosystem. BSc VI: PI- Appled Zoology. Aware about the economically important animals.	Zoogeography, Wild Life	Students are appreciated the contribution of the great scientist &
and Biostatistics. genetics. Students apply the knowledge to collect various biological data in their future research work. Helpful to study the nearby ecosystem. BSc VI: PI- Appled Zoology. Aware about the economically important animals.	Conservation.	motivated.
Students apply the knowledge to collect various biological data in their future research work. Helpful to study the nearby ecosystem. BSc VI: PI- Appled Zoology. Aware about the economically important animals.		_
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BSc VI: PI- Appled Zoology. Aware about the economically important animals.		
		Helpful to study the nearby ecosystem.
PII- Microbiology, Identify various methodology & prospective of applied branches of	BSc VI: PI- Appled Zoology.	Aware about the economically important animals.
	PII- Microbiology,	Identify various methodology & prospective of applied branches of

Nanotechnology,	Zoology for the possibilities of self-employment.
Bioinformatics and Methods of	Learn the basic principles involved in the breeding of Desi breeds.
Biology.	