SESSION 2018-2019							
Course combination	**Discipline**	**Programme Specific Outcome**	**Group**	**Class Year**	**Paper, Code & Course Name**	**Course Outcome**	**Concerned Department**
Programme Name: BSC							

Students taking admission to this program of B.Sc. are expected to get equipped with following outcomes:

1. Ability to explain the basic scientific principles and methods.
2. Inculcating scientific thinking and awareness among the student.
3. Ability to handle the unexpected situation by critically analyzing the problem.
4. Understanding the issues related to nature and environmental contexts and sustainable development.
5. Acquired the knowledge with facts and figures related to various subjects in pure sciences such as Physics, Chemistry, Botany, Zoology, Mathematics, etc.
6. Understood the basic concepts, fundamental principles, and the scientific theories related to various scientific phenomena and their relevancies in the day-to-day life.
7. Acquired the skills in handling scientific instruments, planning and performing in laboratory experiments.
8. The skills of observations and drawing logical inferences from the scientific experiments.
9. Developed scientific outlook not only with respect to science subjects but also in all aspects related to life.
10. Analyzed the given scientific data critically and systematically and the ability to draw the objective conclusions.
11. Able to think creatively to propose novel ideas in explaining facts and figures or providing new solution to the problems.
12. Realized how developments in any science subject helps in the development of other science subjects and vice-versa and how interdisciplinary approach helps in providing better solutions and new ideas for the sustainable developments.
13. Imbibed ethical, moral and social values in personal and social life leading to highly cultured and civilized personality.
14. Developed various communication skills such as reading, listening, speaking, etc., which will help in expressing ideas and views clearly and effectively.
15. Realized that chase of knowledge is a lifelong activity and in combination with untiring efforts and positive attitude and other necessary qualities leads towards a successful life.
16. An ability to analyze the local and global impact of computing on individuals, organizations, and society. Recognition of the need for and an ability to engage in continuing professional development.
17. Graduates will assume professional leadership roles.
18. To engage in professional development and to pursue post graduate education in the fields of science.

Computer Science Group, Physics Group, Mathematics Group, Foundation Group	Computer Science	Provide students with the educational experiences that will enable them to cope with the rapidly changing subject of Computer Science. Produce world class IT professionals who will take care of the computing needs of the Royal Government and the industries. An ability to analyze a problem, and identify and define the computing	Computer Science	First	I-101 Fundamentals of Computers	Understanding the fundamental hardware and software components that make up a computer. Understanding the difference between an operating system and application program, and what each is used for in a computer. Performing common basic functions like editing, formatting, printing, scanning etc using tools. Ability to sort data, manipulate data using formulas and functions and add and modify charts in a worksheet.	Computer Science & Electronics

		requirements appropriate to its solution. An ability to design, implements, and evaluate a computer-based system, process, component, or program to meet desired needs. An ability to function effectively on teams to accomplish a common goal. An ability to communicate effectively with a wide range of audiences. An ability to apply design and development principles in the			II Programming and Problem Solving Using C	Ability to develop applications. Creation algorithms and flowcharts to solve simple programming problems. Understanding to design, implement, test, debug a program that uses calculations, loops, array, function, pointers, structure etc. Memory management using C.	

		principles in the construction of software systems of varying complexity. An ability to use current techniques, skills, and tools necessary for computing practice. To engage in professional development and to pursue post graduate education in the fields of Information Technology, Computer Applications and computer science etc. An ability to apply		Second	I Object Oriented Programming Concepts Using C++	Able to learn and understand the basic concepts of OOPS and its applications in other languages. Use the basic object-oriented design principles in computer problem solving. Programming with advanced features of the C++ programming language. Using C++ classes for code reuse. Able to use the concepts of OOPs in other languages.	

		apply mathematical foundations, algorithmic principles, and computer science theory in the modelling and design of computer-based systems in a way that demonstrates comprehension of the tradeoffs involved in design choices.			II Data Structure	To access how the choices of data structure & algorithm methods impact the performance of program. To Solve problems based upon different data structure & also write programs. Choose an appropriate data structure for a particular problem. Able to apply the various data structures in solving real world applications. Understand the utility of the learned data structures.	

					III System Programming (For Hons.)	To understand the basics of system programs like editors, compiler, assembler, linker, loader, interpreter and debugger. Describe the various concepts of assemblers and microprocessors. To understand the various phases of compiler and compare its working with assembler. To understand how linker and loader create an executable program from an object module created by assembler and compiler. To know various editors and debugging techniques.	

Information Technology Group, Electronics Group, Mathematics Group, Foundation Group	Information Technology	Develop criteria to organize and present different type of works in academic and professional environments. Learn how to organize information efficiently in the forms of outlines, charts, etc. by using appropriate software. Develop the skills to present ideas effectively and efficiently. Academic and Professional Presentations - Designing and delivering an effective presentations and	IT	First	I Introduction to Information Technology & Computer Organization	Basics of computer system. Study of computer software and its types. Learning of Office Automation process and tools, MS-Word, MS-Excel and MS-Power Point. Learning of number system, logic gates learning of computer memories and peripherals

		developing the various IT skills to the electronic databases. Use the Systems Analysis Design paradigm to critically analyze a problem. Solve the problems (programming networking database and Web design) in the Information Technology environment. Function effectively on teams to accomplish a common goal and demonstrate professional behaviour. Develop IT			II Programming & Problem Solving Through C & C++	Learn the basic concepts of c programming. Able to code small programs using c. Describe the procedural and object oriented paradigm with concepts of streams, classes, functions, data and objects. Understand dynamic memory management techniques using pointers, constructors, destructors, etc. Describe the concept of function overloading, operator overloading, virtual functions and polymorphism. Classify inheritance with the understanding of early and late binding, usage of exception handling, generic programming. Demonstrate the use of various OOPs concepts with the help of programs.	

		Develop IT-oriented security issues and protocols. Design and implement a web page. Improve communication and business management skills, especially in providing technical support. To engage in professional development and to pursue post graduate education in the fields of science.		Second	I Operating System Concepts & Computer Network	An appreciation of the role of an operating system. Understand the theory and logic behind the design and construction of operating systems. Examine the algorithms used for various operations on operating systems. Differentiate between various operating systems functionalities in terms of performance. Know the problems in the design of operating system and study the probable solutions. Become aware of the issues in the management of resources like processor, memory and input -output.	

					II Internet Programming Using Java	Knowledge of creating java programs that solve simple business problems. Knowledge of compile and execute java programs using class, object, constructors, destructors, inheritance, etc. Knowledge of creating and using of packages, multithreading, exception handling. Design and implement Applets programming and AWT.	

	Electronics		Electronics	First	I Basics of Semiconductors & Devices	Understand electronic systems with a continuously variable signal and understand proportional relationship between a signal and a voltage or current that represents the signal. To learn function of basic component's use in linear circuits, and understand component symbol, working principle, classification and specification. To learn different theorems for simplification of basic linear electronics circuits. Design and analyze of electronic circuits, and evaluate frequency response to understand behaviour of electronic circuits. Apply concepts of electric network topology, nodes, branches, loops to solve circuit problems. Describe the properties of materials	

					II Electronics Circuit and Fundamentals of digital Electronics	Acquire basic knowledge of physical and electrical conducting properties of semiconductors. Develop the ability to understand the design and working of BJT / FET amplifiers. Able to design amplifier circuits using BJT s and FET's. Able to analyse the effect of negative feedback on different parameters of an amplifier. Able to observe the effect of positive feedback and design the working of different Oscillators using BJTs. Develop the skill to build, and troubleshoot analog circuits.	

				Second	I Digital Electronics & Microprocessor	The student will be able to analyze, specify, design, write and test assembly language programs of moderate complexity. The student will be able to select an appropriate ‘architecture’ or program design to apply to a particular situation. The student will be able to calculate the worst-case execution time of programs or parts of programs. Able to design and build, or to modify, software to maximize its run time memory or execution-time behavior. The student will be able to characterize and predict the effects of the properties of the bus on the overall performance of a system.	

					II Operational Amplifier and Instrumentation	Develop skills to develop simple filter circuits and various amplifiers and can solve problems related to it. Get knowledge of construction and working principal and applications of analog and digital instruments Measure electrical parameter. Use Signal Generator, frequency counter, CRO and digital IC tester for appropriate measurement. Understand and describe the physical and medical principles used as a basis for biomedical instrumentation.	

	Mathematics		Maths	First	I Algebra and Trigonometry	Find the inverse of a square matrix. Solve the matrix equation AX = B using row operations and matrix operations. Find the determinant of a product of square matrices, of the transpose of a square matrix, and of the inverse of an invertible matrix Find the characteristic equation, eigen values and corresponding eigenvectors of a given matrix. Determine if a given matrix is diagonalizable.	Maths	

					II Calculus and Differential Equations	Understand the relationship between the derivative and the definite integral as expressed in both parts of the Fundamental Theorem of Calculus. Locate the x and y intercepts, any undefined points, and any asymptotes. Determine asymptotes for rational expressions (we will not go into these graphs in much detail) Apply the techniques from the previous section to graph a fourth degree polynomial or higher Determine if there is any symmetry to aid in the graphing process. Determine the point(s) of intersection of pairs of curves.	

					III Vector Analysis and Geometry	Memorize definition of directional derivative and gradient and illustrate geometric meanings with the aid of sketches. Memorize theorem relating directional derivative to gradient and reproduce proof. Calculate directional derivatives and gradients. Apply gradient to solve problems involving normal vectors to level surfaces. Explain the concept of a vector integration a plane and in space. Understand geometrical terminology for angles, triangles, quadrilaterals and circles. Use geometrical results to determine unknown angles. Find the areas of triangles, quadrilaterals and circles and shapes based on these.	

				Second	I Abstract Algebra	1. Understand the importance of algebraic properties with regard to working within various number systems. 2. Extend group structure to finite permutation groups (Cayley's Theorem). 3. understand Sylow's Theorems. 4. Generate groups given specific conditions. 5. Investigate symmetry using group theory. 6. Understand the three major concrete models of Boolean algebra: the algebra of sets, the algebra of electrical circuits, and the algebra of logic.		

					II Advanced Calculus	The student is expected to learn about the basic principles of multi-variable calculus with proofs. To have full knowledge of calculus involving the fundamental tools such as continuity and differentiability. Students are able to reason rigorously in mathematical arguments. They can follow abstract mathematical arguments and write their own proofs. Students are able to effectively communicate mathematics: reading, writing, listening, and speaking. Students make effective use of the library, conduct research and make oral and written presentations of their findings. To know Relationship between the increasing and	

					III Differential Equations	1. classify partial differential equations and transform into canonical form 2. solve linear partial differential equations of both first and second order 3. apply partial derivative equation techniques to predict the behaviour of certain phenomena. 4. apply specific methodologies, techniques and resources to conduct research and produce innovative results in the area of specialisation. 5. extract information from partial derivative models in order to interpret reality. 6. identify real phenomena as models of partial derivative equations.	

	Physics		Physics	first	I Mathematical Physics, Mechanics and Properties of Matters	By the end of this Course students should be able to know about: Knowledge of Vectors and scalars and mathematical applications. Knowledge of divergence, Curl and Gradient . Knowledge of Stokes, Gauss divergence and Greens theorem. Different types of motions and different types of forces in nature. Difference between translational motion and rotational motion. Various elastic constants and property of Elasticity. Understand the physical properties of a fluid. Understand the principles of motion for fluids. Newton's laws of motion and conservation Principles.	Physics

					II Thermodynamics and Statistical Physics	By the end of this Course students should be able to know about: 1. Identify and describe the statistical nature of concepts and laws in thermodynamics, in particular: entropy, temperature, chemical potential, Free energies, partition functions. 2. Use the statistical physics methods, such as Boltzmann distribution, Gibbs distribution, Maxwell-Boltzmann, Fermi-Dirac and Bose-Einstein distributions to solve problems in some physical systems. 3. Apply the concepts and principles of	

				Second	I Optics	By the end of this Course students should be able to know about: Interpret reflection and refraction of light to determine light propagation in different media. Use mathematical analysis to calculate image properties formed by a mirror, a lens and their combinations. Use mathematical analysis to find bright and dark fringes in an interference/diffraction pattern. Interpret a diffraction pattern to determine resolution of an optical system. Use mathematical	

					II Electrostatics, Magneto Statics and Electrodynamics	By the end of this Course students should be able to know about: Understand fundamental theories of electricity and magnetism. Be able to calculate electromagnetic forces and fields, and their effect on different materials. Define the various fields in electrostatics, Magnetostatics and electrodynamics, and to understand how they are related. Use of Cathode ray oscilloscope and functions of its parts. Explain propagation of electromagnetic waves in various conditions. Knowledge of Maxwell's Equations in Vacuum and medium.Knowledge of current electricity in AC and DC circuits.		

Chemistry Group, Biotechnology Group, Computer Science Group OR , Pharmaceutical Chemistry Group, Foundation Group	Chemical Sciences	• Creating interest in environmental issue. • Increasing working knowledge of instruments. • Obtaining the knowledge of pharmaceutical tables • Social awareness about the quality of water. • Increasing the practical skill of the students • Awareness about plastic garbage. • provide a broad foundation in chemistry that stresses scientific reasoning and Analytical problem solving with a molecular perspective. • achieve the skills required to succeed in graduate school.	Chemistry	First	I Physical Chemistry	Developing problem solving skills. Developing scientific knowledge. Developing working knowledge of instrument. To provide an insight into the thermodynamic and kinetic aspects of chemical reactions and phase equilibrium. To derive some thermo-chemical equations and kinetic equations. To study phase diagrams and elementary idea of catalysis.	Chemical Science
					II Inorganic Chemistry	The student will be able to understand Atomic structure and periodic properties. Chemical bonding and its theories. Chemistry of noble gases. Chemistry of S-block elements. Chemistry of P-block elements.	

		graduate school, the chemical industry and professional school. • Get exposures of a breadth of experimental techniques using modern instrumentation. • understand the importance of the Periodic Table of the Elements, how it came to be, and its role in organizing chemical information. • understand the interdisciplinary nature of chemistry and to integrate			III Organic Chemistry	To have a basic understanding about the classification and nomenclature of organic compounds, fundamentals of organic reaction mechanism, aromaticity and stereochemistry To make students capable of understanding and studying organic reactions To have exposure to various emerging new areas of organic chemistry To develop skills required for the qualitative analysis of organic compounds	

		knowledge of mathematics, physics and other disciplines to a wide variety of chemical problems. • learn the laboratory skills needed to design, safely and interpret chemical research. • acquire a foundation of chemistry of sufficient breadth and the depth to enable them to understand and critically interpret the primary chemical literature		Second	I Physical Chemistry	To provide an insight into the characteristics of different types of solutions and electrochemical phenomena. To learn ionic equilibria and electrical properties of ions in solution. To learn the concepts of acids and bases, pH and buffer solutions. To know the basic concepts in classical thermodynamics and to learn the thermodynamic aspects of various processes and reactions To understand the different aspects of statistical thermodynamics and its applications.	

		literature. • develop the ability to communicate scientific information and research results in written and oral formats. • learn professionalism, including the ability to work in teams and apply basic ethical principles.			II Inorganic Chemistry	the student will be able to understand The chemistry of transition series and its application. Chemistry of Co. Ordination compound. Oxidation Reduction Reaction. Chemistry of lanthanides and actinides. The concept of acids --bases, and Non aqueous solvents.	

					III Organic Chemistry	Introduction to various Spectroscopic analysis methods. To study the chemistry of some selected functional groups To develop proper aptitude towards the study of organic compounds and their reactions To learn the chemistry of alcohols, phenols, carbonyl compounds, derivatives of Carboxylic acids, Nitrogen containing compounds, poly nuclear hydrocarbons and Grignard reagents. To understand and study Organic reaction mechanisms.	

			Pharma Chemistry	First	I Pharmaceutical Organic Chemistry	To know the reaction mechanism, stability of intermediate and reactivity of some aliphatic and alicyclic compounds. Describe the scope of pharmacology and signify routes of drug administration. Explain molecular & biochemical aspects of drug actions, receptors, drug receptor interactions, factors modifying drug effects. Classify recently available drugs; explain mechanism of action, target receptors, adverse effects, drug interaction, contraindication and therapeutic uses of drugs in autonomic nervous system	

					II Inorganic and Pharmaceutical Analysis	The sources of impurities and methods to determine the impurities in inorganic drugs and pharmaceuticals. Understand the medicinal and pharmaceutical importance of inorganic compounds. Various major intra and extra cellular fluids and electrolytes and their role. To understand the procedure to perform specific test and limit test of inorganic medicinal compounds as per official pharmacopoeia. To understand the process of preparation and identification of some inorganic compounds.	

				Second	I Medicinal-I Chemistry	the student will be able to understand: General structural features of agents belonging to the therapeutic class Relevant physicochemical properties of drugs. Relevant chemical reactions/synthetic pathways for selected drugs Structural influences on mechanism of pharmacological action (structure-activity relationship) Structural influences on pharmacological/toxicological /therapeutic profiles.	

					II Chemistry of Natural Products	the student will be able to understand: The process of identification and isolation of natural products from natural sources. Chemical synthesis and biological activities of natural products. Ecological relevance and possible applications of natural products in the fields of pharmacology, biotechnology and biomedicine. Phases in natural products discovery and strategies for production of larger amounts of these compounds (chemical synthesis, cultures of cells and organisms, recombinant DNA technology).	

	Biotechnology	A general course emphasizing the application of biology for the human welfare. The subjects help for the exploitation of biological agents or their components for generating useful products/services.	Biotechnology	First	I Cell Structure & Biology	To understand the structures and functions of cell. To understand how cellular components are used to generate and utilize energy in cells. To understand the mechanism and control of cell division.	Bio-Science
					II Microbiology	To understand the classification, metabolism and physiology of microorganisms. To study the diseases caused by bacteria and viruses. To study the microbes of industrial importance	

				Second	I Biophysics and Biochemistry	To learn the synthesis of proteins, lipids, nucleic acids, and carbohydrates and their role in metabolic pathways along with their regulation. To learn the laws of Thermodynamics. Applications of radioactive elements.		
					II Bioinstrumentation, Biostatistics and Bioinformatics	To make students aware about the techniques and working principle of various Instruments. To gain knowledge about data collection, presentation, analysis and interpretation. To gain knowledge about the computational biology for analysis of genome sequences, protein sequences.		

			Foundation	First	I HINDI LANGUAGE & MORAL VALUES	Understand the basic concepts of Hindi language-sentence structure, standard grammar, common Idioms and proverbs. Develop understanding of correct pronunciation so as to communicate clearly, correctly and fluently in Hindi. Develop writing skills and demonstrate the ability to write meaningful applications, usiness letters, paragraphs and reports Use reading skills to foster comprehension of prose and poetry. Develop individual perspective and demonstrate critical thinking skills, logical organization, and command over Hindi Use current technology related to the communication field Appreciate the literary works	Foundation

			II ENGLISH LANGUAGE	Understand the basic concepts of English language-sentence structure, standard grammar, common Idioms and phrases. Develop understanding of phonetics, so as to communicate clearly, correctly and fluently in English. Develop writing skills and demonstrate the ability to write meaningful applications, business letters, paragraphs and reports. Use reading skills to foster comprehension of prose and poetry. Develop individual perspective and demonstrate critical thinking skills, logical organization, and command of standard grammar. Use current technology related to the communication field.

					III ENTREPRENEURSHIP DEVELOPMENT	Get knowledge of current theory and techniques of Entrepreneurship. Understand basic terms and analyze the business environment in order to identify business opportunities. Understand the legal and financial conditions for starting a business venture. Evaluate the effectiveness of different entrepreneurial strategies. Specify the basic performance indicators of entrepreneurial activity. Acquire leadership capacity and teamwork skills for	

				Second	I HINDI LANGUAGE & MORAL VALUES	Understand the basic concepts of Hindi language-sentence structure, standard grammar, common Idioms and proverbs. Develop understanding of correct pronunciation so as to communicate clearly, correctly and fluently in Hindi. Develop writing skills and demonstrate the ability to write meaningful applications, usiness letters, paragraphs and reports Use reading skills to foster comprehension of prose and poetry. Develop individual perspective and demonstrate critical thinking skills, logical organization, and command over Hindi Use current technology related to the communication field Appreciate the literary works	

II ENGLISH LANGUAGE	Understand the basic concepts of English language-sentence structure, standard grammar, common Idioms and phrases. Develop understanding of phonetics, so as to communicate clearly, correctly and fluently in English. Develop writing skills and demonstrate the ability to write meaningful applications, business letters, paragraphs and reports. Use reading skills to foster comprehension of prose and poetry.

					III Environmental Studies	Recognize the physical, chemical, and biological components of the earth's systems and how they function. Understand the environmental concerns Understand the relationship of man with the environment and help them change his attitude for more positive, proactive, eco-friendly and sustainable lifestyles. Get information about climate change, Global warming, Acid rain, Green house effect, Ozone layer depletion. Cultivate attitudes to safeguard the environment Realize of the impact of human actions on the immediate environment degradation	
Programme Name: BCOM							

Programme Outcome: The B.Com. Graduates can pursue Post Graduate Studies like M.Com.,MBA, MCA, ICWA, ISCI, etc. After their Post Graduation, they may do M. Phil or Ph.D. and take teaching as their career in higher education institutions like Degree colleges and Universities. After completion of the programme students will have an in-depth knowledge of Accounting, Finance, Banking and Insurance, Entrepreneurship, Taxation and Business laws.

Other Career Options: Chartered Accountancy, Banking Services, Insurance Sectors, Marketing, Company Secretary ship, Stock Exchange Services, Tax Consultancy, Management & Planning, Entrepreneurship, and Law etc.

They also eligible to study Certificate Courses of any discipline. They may appear for any competitive exams conducted by Union Public Service Commission (UPSC),Staff selection commission, Public Service Commission of various states, competitive exams conducted by various state governments, Indian Railway Board, etc for entering into the government services.

This program could provide well trained professionals for the Industries, Banking Sectors, Insurance Companies, Financing companies, Transport Agencies, Telecom sector, Warehousing etc., to meet the well trained manpower requirements. The graduates will have an in-depth knowledge of Accounting, Finance, Taxation, Insurance and Business Laws and entrepreneurial qualities etc. various aspects acquiring skills for Marketing and Selling Manager, Over all Administration abilities of the Company.

Computer Application Group, Accounting Group, Management Group, Foundation Group	Commerce	Commerce with computer Application gives a deeper understanding of both Information Technology and Commerce, thereby enabling the budding graduates to pursue careers in either of the two	Computer Application	First	I Fundamentals of Computer and PC Software	To enable the students to Work with MS-Office and Tally. On successful completion of this course, the student should be able to work efficiently in Ms-PowerPoint, Ms-Access and	Computer science & Elex
					II Desktop Publishing and Multimedia	Outcome of this course are students must know about DTP and their application and offcourse about multimedia used in various	

		fast-growing areas, viz. IT Industry, Commerce, and Financial sector. Students will demonstrate that they can present the results of their observations and research in a way that is objective, technically accurate, and legally acceptable. Students will use effective technology appropriately, such, Power point Power, Point slides, posters, handouts, and transparencies in oral presentations.		Second	I Internet and E-Commerce	Understand basic of computer network and functions of network. Understand basic of computer network devices Understand and be able to use internet. Understand and be able to use E-Commerce web site. Understand and be able to performs online transaction like RTGS and NEFT.	
					II Relational Data Base Management System	To understand what a database is, about different types of databases. To appreciate the importance of database design. Understand what is the relational model. □ You can conceptualize data using the relational model. □ Understand what is ormalization and use of normal forms.	

			Accounting	First	I Financial Accounting	To enable the students to learn principles and concepts of Accountancy. On successful completion of this course, the student is enabled with the Knowledge in the practical applications of accounting. Develop and understand the nature and purpose of financial statements in relation to decision making. Develop the ability to use the fundamental accounting equation to analyze the effect of business transactions	commerce

					II Business Maths	Upon successful completion of this paper students will be able to: Define basic terms in the areas of business mathematics. Understand and use equations, formulae, and mathematical expressions and relationships in a variety of contexts. Apply the knowledge of mathematics (algebra, matrices) in solving business problems. Demonstrate mathematical skills required in mathematically intensive areas in commerce such as Finance and Economics. Demonstrate critical thinking and problem solving skills in a variety of contexts. Connect acquired knowledge and skills with practical problems in economic	Maths

				Second	I Corporate Accounting	This course aims to enlighten the students on the accounting procedures followed by the Companies. To enable the students to be aware on the Corporate Accounting in conformity with the provision of the Companies Act. The main objective of this subject to provide the knowledge of companies, Shares and regulatory of companies. Develop the ability to use accounting system of companies. To create (record, classify, and summarize) the data need. To solve a variety of corporate business problems of accounting procedure like amalgamation, merger, reconstruction and liquidation etc.		

					II Cost Accounting	To keep the students conversant with the ever – enlarging frontiers of Cost Accounting knowledge. Understand cost accounting knowledge, such as terminology, fundamental Principles, classifications, generalizations and methods. Solve problems and make decisions based on the results of various issues like material, labour and overheads accounting procedure Help in decision making through estimated cost sheet/tender etc. Able to students accounting procedure of job, batch and contract costing, process accounting, operating cost etc.	

					II Advance Accounting and Practices **(for hons. only)**	After the successful completion of the course the student should have a thorough knowledge on the accounting practice prevailing in the above area. To enable the students to learn the basic concepts of Accounting of Non-Profit Organisation, Understand fundamental, legal provisions, Accounts Books & Final Accounts of Banking Companies , Understand fundamental, Types Regulation, Insurance Business, Final Account, Unexpired risks of Insurance company, Understand Concept & Accounting of Hire Purchase system Understand Concept of Government Accounts & Accounting procedure and financial statements	

					II Indirect Tax System (GST)	Students will learn to define various types of indirect taxes and GST. Utilize the definitions of the various components of goods and service tax. Apply an understanding of the common statutes of limitations in federal GST cases Apply an understanding of the common penalties in federal GST cases.	
			Management	First	I Business Law	On successful completion of this course, the student should be well versed in basic provisions regarding legal frame work governing the business world. To know about the Indian contract act 1872 and its essential provisions. To know about the consumer protection act 1986. To know about the FEMA and FERA Act 2000. To know about the special	commerce

					II Business Organisation and Communication	To develop the ability of the students to communicate clearly and correctly in English and regional languages on the matters relevant to day to day business operation with emphases on quality of presentation. To help the students for general understanding of the various aspects of business communication and business environment of the country. Office Management and related communications. On successful completion of	

					I Principles of Management	Apply management concepts and approaches including planning for, organizing, and controlling organizational resources, preparing for and managing organizational change, and managing and leading people. Demonstrate the ability to evaluate, analyze and interpret financial information, and use financial data for business decision-making. Sound approaches in critical thinking and problem-solving including identifying, formulating and communicating questions that guide investigation and reflection, systematically organizing complex topics into their component parts, and moving from making simple connections to gaining a true understanding. Apply key theories, models	

				Second	I Principles of Statistics	The objective of this paper is to provide an understanding for the graduate business student on statistical concepts to include measurements of location and dispersion, probability, probability distributions, sampling, estimation, hypothesis testing, regression, and correlation analysis, multiple regression and business / economic forecasting.		

					II Principles of Management	The objective of this paper is to provide an understanding for the graduate commerce student on management concepts to include planning, controlling, staffing, and training. Man power planning is also a important part of management. To enable the students to learn Discuss and communicate the management evolution and how it will affect future managers. Observe and evaluate the influence of historical forces on the current practice of management. Identify and evaluate social responsibility and ethical issues involved in business situations how organizations adapt to an uncertain environment and identify techniques managers.	

					I Marketing Management (For hons. only)	On successful completion of this course the students should have the practical knowledge and he tactics in the marketing. Understand fundamental marketing concepts, theories and principles in areas of marketing policy; of market and consumer behaviour; of product, distribution, promotion and pricing decisions. Understand the role of marketing as a fundamental organizational policy process. Analyze the interaction of marketing and environmental forces through an understanding of marketing decisions and practices with social, technological, economic, and political forces. Apply the knowledge, concepts, tools necessary to	

					II Financial Management (For hons. only)	Use Financial Statements to evaluate firm performance. Project Financial Statements (B/S, I/S, budgets, etc.). Calculate the cost of debt, cost of equity and the Cost of Capital. Use Discounted Cash flow and other valuation techniques to value projects and firms; perform risk analysis; analyze Mergers, Acquisitions, Leverage Buyouts and Initial public Offerings. Evaluate alternative financing options. Apply measures of cost of capital and financial leverage to form long-term financial policies for business. Describe the common factors influencing dividend policy.	

			Foundation	First	I BSC- 1041 Hindi Language and Moral values	Understand the basic concepts of Hindi language-sentence structure, standard grammar, common Idioms and proverbs. Develop understanding of correct pronunciation so as to communicate clearly, correctly and fluently in Hindi. Develop writing skills and demonstrate the ability to write meaningful applications, usiness letters, paragraphs and reports Use reading skills to foster comprehension of prose and poetry. Develop individual perspective and demonstrate critical thinking skills, logical organization, and command over Hindi Use current	Foundation

					II BSC- 1042 English Language	Understand the basic concepts of English language-sentence structure, standard grammar, common Idioms and phrases. Develop understanding of phonetics, so as to communicate clearly, correctly and fluently in English. Develop writing skills and demonstrate the ability to write meaningful applications, business letters, paragraphs and reports. Use reading skills to foster comprehension of prose and poetry. Develop individual perspective and demonstrate critical thinking skills, logical organization, and command of standard grammar. Use current technology related to the communication field.	

					III BSC- 1043 Entrepreneurship Development	Get knowledge of current theory and techniques of Entrepreneurship. Understand basic terms and analyze the business environment in order to identify business opportunities. Understand the legal and financial conditions for starting a business venture. Evaluate the effectiveness of different entrepreneurial strategies. Specify the basic performance indicators of entrepreneurial activity. Acquire leadership capacity and teamwork skills for business. Understand the ethical implication of business decision making and recognize ethical dilemmas.	

				Second	I Hindi Language and Moral values	Understand the basic concepts of Hindi language-sentence structure, standard grammar, common Idioms and proverbs. Develop understanding of correct pronunciation so as to communicate clearly, correctly and fluently in Hindi. Develop writing skills and demonstrate the ability to write meaningful applications, usiness letters, paragraphs and reports Use reading skills to foster comprehension of prose and poetry. Develop individual perspective and demonstrate critical thinking skills, logical organization, and command over Hindi Use current technology related to the communication field Appreciate the literary works	

					II English Language	Understand the basic concepts of English language-sentence structure, standard grammar, common Idioms and phrases. Develop understanding of phonetics, so as to communicate clearly, correctly and fluently in English. Develop writing skills and demonstrate the ability to write meaningful applications, business letters, paragraphs and reports. Use reading skills to foster comprehension of prose and poetry. Develop individual perspective and demonstrate critical thinking skills, logical organization, and command of standard grammar. Use current technology related to the communication field.	

					III Environmental Studies	Recognize the physical, chemical, and biological components of the earth's systems and how they function. Understand the environmental concerns Understand the relationship of man with the environment and help them change his attitude for more positive, proactive, eco-friendly and sustainable lifestyles. Get information about climate change, Global warming, Acid rain, Green house effect, Ozone layer depletion. Cultivate attitudes to safeguard the environment Realize of the impact of human actions on the immediate environment degradation	

dure and Practi		B.Com with tax specialization help the students to gain skills in Direct and Indirect Taxes, Calculation of Tax, Enable the student to understand responsibilities of Tax Authorities etc. By virtue of the training they can get job in the Taxation firm and after gaining experience they can become a tax consultant. along with specific area they can get job of Accounting ,Finance, Banks, Companies, Teacher, Stock Agents,	Tax Procedure and Practices	First	I Direct Tax System and Income Tax	To make aware about provisions of direct tax with regard to IT Act. Identify, define, and resolve tax issues through their understanding, knowledge of income Tax. To understand differentiation between direct and indirect tax. To make aware about agriculture income, residential status and incidence/charge of tax. To understand the provisions and procedure to compute total income under salaries, house property, profits & gains from business & profession capital gains and other sources.	commerce

		Government jobs etc.			II Indirect Tax System: Goods and Services Tax (GST)	Students will learn to define various types of indirect taxes and GST. Utilize the definitions of the various components of goods and service tax. Apply an understanding of the common statutes of limitations in federal GST cases Apply an understanding of the	

				Second	I Income Tax Procedures & Practice	This course aims to provide an in-depth knowledge on the provisions of Income Tax. To familiarize the students with recent amendments in Income-tax. To make aware about provisions of direct tax with regard to IT Act. Identify, define, and resolve tax issues through their understanding, knowledge of income Tax. To understand the provision and procedure for clubbing & aggregation of incomes and set-off & carry forward of losses. To understand the various deductions to be made from gross total income U/s 80C to 80-U in computing total income. To understand the procedure and provisions to compute Gross total Income, Taxable	

					II Advance Study of Goods and Service Tax	Students will learn to define various types of indirect taxes and GST. Utilize the definitions of the various components of goods and service tax. Apply an understanding of the common statutes of limitations in federal GST cases Apply an understanding of the common penalties in federal GST cases.	

Applied Economics Group		B.Com with Economics specialization help the students to gain skills in National Income accounting, Various aspects of Law of Demand and Supply, Consumer behaviour, Banking, Insurance, Finance and marketing. etc. By virtue of the training they can get job in the economic survey and research firm, Banks, Insurance companies etc. along with specific area they can get job in the area of	Applied Economics	First	I Micro Economics	Upon successful completion of the course, students will be able to: • To enable Understand that economics is about the allocation of scarce resources, • Understand the determinants of the law of demand and elasticity of demand. • To understand how that demand and supply together determine equilibrium price. • Understand the role of prices in allocating scarce resources in market economies and explain the consequences of price controls. • To enable the students know about factors of production. • Understand the costs of production and how profit-maximizing firms determine how much to produce. • Be able to distinguish between long-run production

		Accounting ,Finance, Companies, Teacher, Stock Agents, Government jobs etc.			I Managerial Economics (For hons. only)	Able to Identify sources of economic value competent to understand the mechanisms of competition and their business implicationsAble Anticipate future market trends and dynamics, including in terms of competition policy • Competent to understand economic environment within which business enterprises operate. • ability to assess, in broad terms, implications of economic policies and other economic • events for the national economy, an industry and an enterprise; • a critical appreciation of macroeconomic forecasts and their value and limitations; • able to comprehend the economic aspects of the nature of competition and	

					II Macro Economics	Upon successful completion of the course, students will be able to: Understand the concepts, subject matter and limitations of macro economics. Understand the concepts of National Income and methods of National Incomes accounting. Understand the theories of wages, interest and employment. Understand the monitory and quantitative theories of money. Understand the Recent Industrial Policy, disinvestment, foreign direct Investment and functioning of various regulating bodies.	

				Second	I Indian Company Act	This course aims to provide an in-depth knowledge on the provisions of Companies act To familiarize the students with recent amendments in the Companies Act, 2013 The Act consolidates and amends the law relating to companies. Enable broad knowledge of foundational and other core areas of the corporate law specialized knowledge in areas of interest, and experience with advanced study. • Demonstrate an understanding of the Legal Environment of the corporate Business. • The ability to analyze complex problems, find and deploy a variety of legal authorities, • Communicate effectively using standard business and legal terminology.		

					II Banking and Insurance	After the successful completion of the course the student should have a through knowledge on Indian Banking System and Acts pertaining to it. To enlighten the students' knowledge on Banking Regulation Acts. To have knowledge of banking, insurance and capital market law besides fundamental legal knowledge about banks. To prioritize ethical values in insurance sector. To keep up with developments in Investment market. To have knowledge about life insurance contract between different parties and claim settlement. To have knowledge about health insurance. To express their opinions	

					I Public Finance	Students will be able to integrate theoretical knowledge with quantitative and qualitative evidence in order to explain past economic events and to formulate predictions on future ones. Explain the history, theory, and models of public finance. Explain the role of the public relations professional in the government environment. Describe the strategies, tactics, and techniques of public relations programs.	

					II Advanced Statistics	The objective of this paper is to provide an understanding for the graduate business student on statistical concepts to include measurements of location and dispersion, probability, probability distributions, sampling, estimation, hypothesis testing, regression, and correlation analysis, multiple regression and business / economic forecasting.	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
Programme Name: MSC						
1. The Master of Science programme provides the candidate with knowledge, general competence, and analytical skills on an advanced level, needed in industry, consultancy, education, research, or public administration. 2. Identify, formulate, research literature, and analyze complex problems reaching substantiated conclusions using first principles of mathematical, biological, physical and chemical sciences. 3. To prepare students for an independent professional career. It means being able to carry out fundamental or applied scientific research, as well as applying state of the art scientific knowledge in a wide variety of practical situations 4. Demonstrate a sense of societal and ethical responsibility in all professional endeavours. 5. Global level research opportunities to pursue Ph.D programme targeted approach of CSIR-NET examination. 6. Enormous job opportunities at all level of chemical, pharmaceutical, food products, life oriented material industries etc. 7. Ability to design and carry out experiments (safely) and to interpret experimental data. 8. To provide a learning environment for enabling students to develop skills, knowledge and insight in a specialization area of the field of study. 9. To have students develop the ability to clearly and concisely communicate the acquired knowledge to others. 10. Has the ability to successfully carry out advanced tasks and projects, both independently and in collaboration with others, and also across disciplines.						

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
M.Sc	Computer Science	Serve as the programmers or the software engineers with the sound knowledge of practical and theoretical concepts for developing software. Serve as the computer engineers with enhanced knowledge of computers and its building blocks. Work as the hardware designers/engineers with the knowledge of networking concepts. Work as the system engineers and system integrators. Serve as the system administrators with thorough knowledge of DBMS. To give technical support for the various systems. Work as the support engineers and the technical writers.	First/ First	Computer and Communication Fundamentals	Learned the concept of computers and how it works and recognize the basic terminology used in computer programming Represent numbers and perform arithmetic operations. Understand the concepts of various components to design stable analog circuits. Analyze and design combinational and sequential circuit. Differentiate analog and digital communication systems. Understand and explain data communications system, computer network technology and its components. Classify the routing protocols and analyze how to assign the IP addresses for the given network. Implement hardware systems that meet specified design and performance requirements. Work effectively in teams to design and implement solutions to computational and design problems.	Computer Science & Electronics

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Programming and Problem Solving Using C	Increases the problem solving ability of students, and thereby their coding efficiency is increased. This will increase structured programming and modular programming approaches towards software development ability. Also by performing practical on real life problem, their analytical ability also increases.	
				Operating System	To make students able to learn different types of operating systems along with concept of file systems and CPU scheduling algorithms used in operating system. To provide students knowledge of memory management and deadlock handling algorithms. Students will be able to implement various algorithms required for management, scheduling, allocation and communication used in operating system.	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Discrete Structures	Discrete objects can often be enumerated by integers. Concepts and notations from discrete mathematics are useful in studying and describing objects and problems in branches of computer science, such as computer algorithms, programming languages, cryptography, automated theorem proving, and software development.	Maths
				Communication Skills	Develop and integrate knowledge, creativity and Communication skills. Become competent in oral, written, and visual communication so as to utilize skills in cross-cultural communication. Understand the process of communication and its effect on giving and receiving information. Apply effective communication skills in a variety of interpersonal settings. Master current technology related to the communication field. Become aware of opportunities in the field of communication. Develop positive Interview techniques and group communication skills.	Foundation
				Skill Enhancement		

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
			First/ Second	ata Structure Using C-	To access how the choices of data structure & algorithm methods impact the performance of program. To Solve problems based upon different data structure & also write programs. Choose an appropriate data structure for a particular problem. Able to apply the various data structures in solving real world applications. Understand the utility of the learned data structures.	Computer Science & Electronics
				Data Base Manage-ment System	Demonstrate the basic elements of a relational database management system. Identify data models for relevant problems. Design entity relationship and convert entity relationship diagrams into RDBMS and formulate SQL queries on the respect data. Apply normalization for the development of application software's. Design and implement a full real size database system. Able to design the database for real world systems.	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Software Engineering	Understanding how to work as an individual and as part of a multidisciplinary team to develop and deliver quality software. Demonstrating an understanding of and apply current theories, models, and techniques that provide a basis for the software lifecycle. Understanding methods and tools to design, implement, test, document, and maintain a software system. Communicating effectively and professionally both in writing and by means of presentations to both specialist and a general audience.	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Computer Architecture	Explain the organization of basic computer, its design and the design of control unit. Demonstrate the working of central processing unit and RISC and CISC Architecture. Describe the operations and language of the register transfer, micro operations and input-output organization. Understand the organization of memory and memory management hardware. Elaborate advanced concepts of computer architecture, Parallel Processing, inter-process communication and synchronization.	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Computer Oriented Numerical and Statistical Methods	Recognize the error in the number generated by the solution. Compute solution of algebraic and transcendental equation by numerical methods like Bisection method and Newton Rapshon method. Apply method of interpolation and extrapolation for prediction. Recognize elements and variable in statistics and summarize qualitative and quantitative data. Calculate mean, median and mode for individual series. Outline properties of correlation and compute Karl Pearson's coefficient of correlation.	
				Skill Enhancement		
			Second/ Third	Object Oriented Programming Using JAVA	Knowledge of creating java programs that solve simple business problems. Knowledge of compile and execute java programs using class, object, constructors, destructors, inheritance, etc. Knowledge of creating and using of packages, multithreading, exception handling. Design and implement Applets programming and AWT.	Computer science & Electronics

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Data Base Applications and Tools	Demonstrate the basic elements of a relational database management system. Identify data models for relevant problems. Design entity relationship and convert entity relationship diagrams into RDBMS and formulate SQL queries on the respect data. Apply normalization for the development of application software's. Design and implement a full real size database system. Able to design the database for real world systems. Able to work with different database tools and applications.	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Theory of Computation	Understand, design, construct, analyze and interpret Regular languages, Expression and Grammars. Design different types of Finite automata and machines as Acceptor, Verifier and Translator. Understand, design, analyze and interpret Context Free languages, Expression and Grammars. Design different types of Push down Automata as simple parser. Design different types of Turing Machines as Acceptor, Verifier, Translator and Basic computing machine. Compare, understand and analyze different languages, grammars, Automata and Machines, their power and convert Automata to programs and functions.	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Computer Graphics and Multimedia	To implement various algorithms to scan, convert the basic geometrical primitives, transformations, area filling, clipping. To describe the importance of viewing and projections. To define the fundamentals of animation, virtual reality and its related technologies. To understand a typical graphics pipeline. To design an application with the principles of developed understanding of technical aspect of multimedia systems. Understand various file formats for audio, video and text media. Develop various multimedia systems applicable in real time. Design interactive multimedia software. Apply various networking protocols for multimedia applications. To evaluate multimedia application for its optimum performance. Design and synthesize colour image processing and its real-world applications.	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Computer Networks	Describe the functions of each layer in OSI and TCP/IP model. Explain the functions of Application layer and Presentation layer paradigms and Protocols. Describe the Session layer design issues and Transport layer services. Classify the routing protocols and analyze how to assign the IP addresses for the given network. Describe the functions of data link layer and explain the protocols. Explain the types of transmission media with real time applications.	
				Skill Enhancement		

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
			Second/ Fourth	UNIX / LINUX Administration	Understanding the Linux Architecture, use of basic command and to explain administrator privileges, super user basic command to add, modify and delete users and to understand basics of File systems. Understanding the Directory commands, File related commands and changing file permission and directory permission. To understand VI editor basics. Pattern searching and search and replace commands. Understanding shell basics, connecting commands and Basics and Extended regular expressions, the grep and egrep and shell programming. Understanding shell programming, logical Operators, File Links and to understand process creation and decision making looped control structures.	Computer Science & Electronics

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Compiler Design	Able to identify the tokens and describe the design of a compiler including its phases and components. To make the lexical analysis of program and describe the role of the compiler in ensuring the security, privacy and integrity of data. Be familiar with Compiler architecture, register allocation and compiler optimization. To develop an awareness of the function and complexity of compilers. To introduce the major concept areas of language translation and compiler design Able to perform practical, hands on experience in compiler design. Able to identify the similarities and differences among various parsing techniques and grammar transformation techniques.	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				ernet and Web Technol	Understand the principles of creating an effective web page, including an in-depth consideration of information architecture. Become familiar with graphic design principles that relate to web design and learn how to implement these theories into practice. Develop skills in analyzing the usability of a web site. Understand how to plan and conduct user research related to web usability. Learn the language of the web: HTML and CSS. Learn techniques of responsive web design, including media queries. Develop skills in digital imaging (Adobe Photoshop). Be able to embed social media content into web pages.	
				gn and Analysis of Algori	Apply design principles and concepts to algorithm design. Have the mathematical foundation in analysis of algorithms. Understand different algorithmic design strategies. Analyze the efficiency of algorithms using time and space complexity theory.	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Skill Enhancement		
				Project Work / Internship & Viva-Voce	This gives practical exposure in the Project work, knowledge which will equip the students in Research work. The aim of the Project work is to acquire practical knowledge on the implementation of various applications using the learned technologies.	
	Bio Science	Biotechnology has application in four major industrial areas, including health care (medical), crop production and agriculture, industrial uses (e.g. biodegradable plastics, vegetable oil, biofuels), and environmental uses. The postgraduate students of	First/First	Biochemistry	Students will gain knowledge of correlation between biology and chemistry. Understanding of different biomolecules and their importance for living organisms. To be able to gain basic concepts of metabolism and their impact on human health.	Bio Science

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
		Biotechnology can peruse their careers in research and development for the formulation of new products.		Cell and Developmental Biology	To understand the mechanism of cells and their functions. To learn about energy converting processes that drives the organism to grow and multiply. To understand the cellular mechanism (Signaling mechanism) of the cell. To learn the mechanism of cancer. To learn the process of Stem cells differentiation and their importance.	
				Microbiology	To gain deep understanding of advantages and hazards of microbial world. To gain knowledge of production of antibiotics, organic acids, enzymes etc.	
				Biostatistics and Bioinformatics	Demonstrate an understanding of the central concepts of modern statistical theory and their probabilistic foundation. Enumerate the results of data analysis and interpretation. Knowledge and awareness of the basic principles and concepts of biology, computer science and mathematics.	
				Skill Enhancement		

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
			First/ Second	Molecular Biology	To gain knowledge of chemical and molecular processes that occurs continuously inside the cells. Gain knowledge of fundamental structure, properties and processes of genes. Learn the molecular mechanisms of central dogma of life.	
				Bacterial genetics and genetic engineering	Genetic engineering methods in order to construct strains having desired properties. Development of Gene therapy. Learn the molecular mechanism of mutation. Application of PCR in different diagnostic techniques.	
				Immunology	To gain knowledge of the underlying principles of immunology and its application in solving problems in biological systems. An ability to apply knowledge of immunology in health and diagnostic purposes. An ability to use immunology principles to design novel therapeutics.	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Analytical Techniques	To gain knowledge about principle, working techniques and application of modern instruments used in biological sciences. To gain knowledge about radioactive molecules and their applications in metabolic and clinical studies.	
				Skill Enhancement		
			Second/ Third	Environmental Biotechnology	Learn the techniques of xenobiotics and their degradation. Describe biotechnological solutions to address environmental issues including pollution, mineral resource winning, renewable energy and water recycling.	
				Food sciences and technology	To acquire knowledge about the constituents, food additives and enzymes used in food processing. To acquire knowledge about the microorganisms associated with food and food borne diseases. To understand the techniques involved in the food processing and food preservation. To acquire the skills to gain employment in the food industry and food product development.	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Research methodology, IPR and Bio-safety	To be able to identify the overall process of designing a research study from its beginning to its report. To familiarize students with ethical issues in educational research, including those issues that arise in using quantitative and qualitative research. To develop an understanding of professional and ethical responsibility as a researcher.	
				Enzyme Technology	To be able to distinguish the fundamentals of enzyme properties, nomenclatures, characteristics and mechanisms. To learn and apply the methods of production, purification, characterization and immobilization of enzymes. To gain knowledge of various applications of enzymes that can benefit human life.	
				Introduction to pharmaceutical biotechnology	To develop the understanding of production processes and planning of industrially important metabolites of microorganisms. To gain knowledge about bio pharmaceuticals product (vaccine) in a global environment.	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
			Second/ Fourth	Bioprocess Technology	To gain knowledge about working in the biotechnology industry with strong foundation about bioreactor design and scale-up. To learn about new techniques of strain selection, isolation and development for large scale production of a metabolite of industrial value. To be able to apply modeling and simulation of bioprocesses so as to reduce costs and to enhance the quality of products and systems.	
				Animal Biotechnology	To learn the techniques of organ culture. To learn the techniques of tissue engineering. Production of transgenic animals. To learn the techniques of production of cell line and their maintenance.	
				Plant Biotechnology	To develop skills for application of plant breeding and horticulture. To get knowledge about the plant tissue culture and transgenic plants. To learn the techniques of production of disease free plants. To study the synthesis of secondary metabolites of plants and their uses.	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Genomics and Proteomics	Study of isolation of proteins in their native form. Study of genome sequencing and their applications. To learn the gene silencing techniques used in agricultural field.	
				Introduction to Agro Biotechnology	Demonstrate the ability to develop, interpret, and critically evaluate modern approaches to scientific investigation in agricultural field. Understanding of application of biotechnology in plant breeding. Study of microbes useful in agriculture.	
				Project Work/ Internship	To get an insight of research in the area of biotechnology. To develop analytical and critical thinking skills in biological phenomena through scientific methods. To gain knowledge of how to seek scientific facts and how to plan, carry out and present scientific work as well as theoretical and practical specialization within a subject area.	
				Skill Enhancement		

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
	Maths	To move away from the conventional pedagogy of teaching mathematics To include methods of facilitating learning such as projects, group work and participative learning. To use technology as significant aid in learning. To impart knowledge of some basic concepts and principles of the discipline. To establish inter-disciplinarily between mathematics and other subjects from Humanities and theSciences. To encourage collaborative learning through group activities and hands-on learning. To provide in-service training for school teachers. To learn to apply mathematics to real life situations and help in problem solving	First/ First	Advanced Abstract Algebra – I	Discuss field extension, algebraic extensions. Discuss Sylow's Theorems. Understand the base of the coding theory as an application of finite fields. Demonstrate knowledge that the rational numbers and real numbers can be ordered and that the complex numbers cannot be ordered, but that any polynomial equation with real coefficients can be solved in the complex field.. Describe other applications of abstract algebra such as in avoiding problems of round off in computations.	Maths
				Real Analysis	Illustrate the effect of uniform convergence on the limit function with respect to continuity, differentiability, and integrability, Illustrate the convergence properties of power series.	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
		in problem solving.		Topology – I	Define and illustrate the concept of topological spaces and continuous functions, Define and illustrate the concept of product topology. Prove a selection of theorems concerning topological spaces, continuous functions, product topologies. Define and illustrate the concepts of the separation axioms, Define connectedness and compactness, and prove a selection of related theorems.	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Complex Analysis – I	Represent complex numbers algebraically and geometrically, Define and analyze limits and continuity for complex functions as well as consequences of continuity, Apply the concept and consequences of analyticity and the Cauchy-Riemann equations and of results on harmonic and entire functions including the fundamental theorem of algebra, Analyze sequences and series of analytic functions and types of convergence, Evaluate complex contour integrals directly and by the fundamental theorem, apply the Cauchy integral theorem in its various versions, and the Cauchy integral formula, and Represent functions as Taylor, power and Laurent series.	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Differential Equations –	The study of Differential focuses on the existence and uniqueness of solutions andalso emphansizes the rigorous justification of methods for approximating solutionsin pure and applied mathematics. It plays an important role in modelling virtually every physically technical orbiological process from celestial motion to bridge design to interactions between Neurons. Theory of differential equations is widely used in formulating many fundamental laws of physics and chemistry.	
				OR		
				ced Discrete Mathema	Understand the basic principles of Boolean Algebra . Write model problems in computer science using lattice and graphs.	
				Skill Enhancement		

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
			First/ Second	ranced Abstract Algebra	Demonstrate an understanding of the foundations and history of mathematics Perform computations in higher mathematics Read and understand middle-level proofs Write and understand basic proofs Develop and maintain problem-solving skills Use mathematical ideas to model real-world problems Communicate mathematical ideas with others Utilize technology to address mathematical ideas.	
				gue Measure and Integ	Determine the Riemann integrability and the Riemann-Stieltjes integrability of a bounded function and prove a selection of theorems concerning integration, Recognize the difference between pointwise and uniform convergence of a sequence of functions.	
				Topology – II	Understand the separation of topologies.Understand the Connectness, Embedding and Metrization.	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Complex Analysis – II	Perform basic algebraic manipulation with complex numbers. Understand the geometric interpretation of complex numbers Know methods of finding the nth roots of complex numbers and the solutions of simple polynomial equations. Use analytical functions and conformal mappings; Compute definite integrals using residue calculus; Appreciate the existence of special functions and their use in a range of contexts.	
				)ifferential Equations –	Theory of differential equation is used in economics and biology to model the behaviour of complex systems. Differential equations have a remarkable ability to predict the world around us. They can describe exponential growth and decay population growth of species or change in investment return over time.	
				OR		

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				ced Discrete Mathemat	Write an argument using logical notation and determine if the argument is or is not valid Determine when a function is one- one and onto. Prove basic set equalities. Demonstrate the ability to write and evaluate a proof.	
				Skill Enhancement		
			Second/ Third	Functional Analysis – I	Functional analysis is a broad mathematical area with strong connections to many domains within mathematics and physics.	
				lvance Special Function	To determine types of PDEs which may be solved by application of special functions. To analyze properties of special functions by their integral representations and symmetries. To classify differential equations by their singularities; to obtain properties of solutions of PDE by their symmetries.	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Integral Transforms – I	Calculate the Laplace transform of standard functions both from the definition and by using tables. Select and use the appropriate shift theorems in finding Laplace and inverse Laplace transforms. Select and combine the necessary Laplace transform techniques to solve second-order ordinary differential equations involving the Dirac delta (or unit impulse). Recognise even and odd functions and use the resulting simplifications for Fourier series and transforms. Approach more advanced aspects of transform methods. Understand how integral transforms can be used to solve a variety of differential equations.	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Operation Research – I	Operation Research is used for defence capability acquisition decision making. It is used to find optimal or near optimal solutions to complex decision making problems. It is used in finding maximum (of profit or yield) in real-world objective. It is used in finding minimum (of loss or cost) in real-world objective. It is used in data envelopment. It has strong ties to computer science and analytics.	
				Fundamental of Computer Science – I	Understanding the fundamental hardware and software components that make up a computer. Understanding the difference between an operating system and application program, and what each is used for in a computer. Performing common basic functions like editing, formatting, printing, scanning etc using tools. Ability to sort data, manipulate data using formulas and functions and add and modify charts in a worksheet.	
				OR		

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				anced Numerical Analys	The course will also develop an understanding of the elements of error analysis for numerical methods and certain proofs. The main objective of this course is to provide students with an introduction to the field of numerical analysis.	
				Skill Enhancement		
			Second/ Fourth	Functional Analysis – II	It introduces essential notions and results from many areas of mathematics to which functional analysis makes important contributions, and it demonstrates the unity of perspective and technique made possible by the functional analytic approach.	
				Advance Special Function – II	To determine types of PDEs which may be solved by application of special functions. To analyze properties of special functions by their integral representations and symmetries. To classify differential equations by their singularities; to obtain properties of solutions of PDE by their symmetries.	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Integral Transforms – II	Calculate the Fourier transform of elementary functions from the definition. Be able to demonstrate knowledge of a range of applications of these methods.	
				Operation Research – II	Operation Research is used for defence capability acquisition decision making. It is used to find optimal or near optimal solutions to complex decision making problems. It is used in finding maximum (of profit or yield) in real-world objective. It is used in finding minimum (of loss or cost) in real-world objective. It is used in data envelopment. It has strong ties to computer science and analytics.	
				Fundamental of Computer Science – II		Computer science & Electronics
				OR		
				Advanced Numerical Analysis – II	Derive appropriate numerical methods to solve interpolation based problems. Prove results for various numerical root finding methods.	Maths

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Skill Enhancement		
				Project Work / Internship & Viva-Voce	This gives practical exposure in the Project work, knowledge which will equip the students in Research work. The aim of the Project work is to acquire practical knowledge on the implementation of the Finance, HR & Marketing studied.	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
	Chemical Science	On successful completion of this Programme, students will have the ability to: • think critically and analyze chemical problems. • present scientific and technical information resulting from laboratory • work effectively and safely in a laboratory environment. • use technologies/instrumentation to gather and analyze data. • work in teams as well as independently. • apply modern methods of analysis to chemical systems in a laboratory setting.	First/First	Inorganic Chemistry –I	Students should be able to explain Atomic structure based on quantum mechanics and explains periodic propertiesof the atoms. Crystal structures explain what kind of parameters that affect the crystal structure of a compound and perform calculations of the lattice enthalpy of ionic compounds. The periodic properties of the different groups of compounds focusing on production methods and application of selected elements and compounds. The band structure of solids and determine the electrical properties. The theory of the determination of the electron structure of d-metal complexes and explain the properties of these complexes. The structure and bonding in molecules and predict the structure of molecules.	Chemical Science

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Organic Chemistry – I	Able to recognize either molecule is aromatic or non-aromatic or aliphatic. Able to describe mechanism of different aliphatic nucleophillic substitution reactions. Able to draw potential energy diagrams. Able to do inter conversion of Fischer to Newmann, Newmann to Sawhorse and vice versa.	
				Physical Chemistry – I	• Able to solve the problems related to one dimensional box. • Able to explain role of operators in quantum. • Able to solve problems of Carnot cycle. • Able to solve questions based on rates of different reactions. • Able to explain temperature and pressure effect on thermodynamic systems. • Able to differentiate different theories of kinetics.	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Group Theory & Spectroscopy I	• Understand and implement details of molecular symmetry including symmetry elements, operations and symmetry point groups to different chemical compound structures • Understand necessary mathematical basics needed for group theory, including matrices, reduction formula, reducible and irreducible representations • Describe the selection rule for infrared-active transitions. • Determine the vibrations for a tri atomic molecule and identify whether they are infrared-active. • Determine whether the molecular vibrations of a tri atomic molecule are Raman active. • Explain the difference between Stokes and anti-Stokes lines in a Raman spectrum. Justify the difference in intensity between Stokes and anti-Stokes lines. • Draw the Stokes and anti-Stokes lines in a Raman spectrum of a compound when given the energies of the different transitions.	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Maths for Chemists	Upon successful completion of this paper students will be able to: • Students will develop and refine quantitative problem solving skills used in the field of chemistry, enabling them to tackle novel problems with confidence. • Define and illustrate the concept of vector triple product, matrices • Define and illustrate the concept of differentiation, integration and its applications. • Define and illustrate the concept of differential equations of first order and first degree and methods of solving them. • Define and illustrate the concept of Probability. Describe the sample space for certain random experiments using probability. • Define and illustrate the concept of permutation and combination. • Define and illustrate the concepts of curve fitting using methods of least squares.	
				OR Biology for Chemists		

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Skill Enhancement (Communicative English)	• Understanding of Phonetics so as to enable students to speak English with clear and correct pronunciation and Intonation • Knowledge of basic concepts of English language such as sentence structure, Grammar, Punctuation, Tenses and common idioms and phrases • Knowledge of new words with correct spellings and accent • Ability to write English with correct sentence structure, punctuation and spellings effectively • Improvement in writing skills with the knowledge of correct format of writing business letters, applications and reports • Ability to converse in English fluently and effectively	
			First/ Second	Inorganic Chemistry –II	Students should be able to explain • Electronic Spectral Studies of Transition Metal Complexes. • Magnetic Properties of Transition Metal Complexes. • Metal π-Complexes. • Metal Clusters. • Optical Rotatory Dispersion and Circular Dichroism.	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Organic Chemistry – II	• Able to recognize effect of different groups on ring. • Able to describe mechanism of different rearrangement reactions. • Able to practically found different groups present in different organic compounds, • Able to explain reactivity of different carbonyl compounds. • Able to recognize mechanism of given chemical reactions.	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Physical Chemistry– II	• Understand the concept of Phase and Gibb's Phase rule. • Study Phase diagram for one component and two component systems and calculate eutectic point, congruent and incongruent melting points. • Describe Kinetics of reaction in solution and in catalytic reactions. • Understand the concept of distribution and thermodynamic probability. • Evaluate most probable distribution state for all type of statics i.e. for Maxwell-Boltzmann, Fermi Dirac and Bose –Einstein statistics. • Understand the concept of partition function, its physical significance and calculation of molar and atomic partition function. • Solve Schrodinger wave equation for rigid rotor and linear harmonic oscillator and calculate their respective energies. • Evaluate commutation relation between total orbital angular momentum operator and its components. • Study the concept of ladder operators and their application to an eigen function of angular momentum.	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Spectroscopy II & Diffraction Methods	• Will be able to interpret NMR spectroscopy, • Will be able to interpret elemental analysis technique • Perform basic calculations relating to crystal planes, lattice parameters and sample characteristics. • Setup data collection strategies and collect data on both a single crystal and powder samples. • Process data, solve/refine and interpret a single crystal structure. • Be aware of and use various crystallographic databases. • Be aware off advanced techniques such as X-ray reflectivity, texture analyse and high-resolution measurements. • Have an understanding of the advantages of synchrotron and neutron diffraction and the additional information they can provide. • Understand the basics of X-ray diffraction theory in terms of X-rays, diffraction and Bragg's Law. • Evaluate the differences and synergies of powder and single crystal diffraction.	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Computer for Chemists	• Understanding the fundamental hardware and software components that make up a computer. • Understanding the difference between an operating system and application program, and what each is used for in a computer. • Creation of algorithms and flowcharts to solve simple programming problems. • Understanding to design, implement, test, debug a program that uses calculations, loops, array, function, pointers, structure etc. • To enable the students to Work with MS-Office. • Use the Internet to view information on the topics of study.	
				Skill Enhancement	• Understand basic components of	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
			Second/ Third	Application of Spectroscopy I	This course emphasizes on • The basic principles and applications of atomic and molecular spectroscopy. • It helps students to understand the common spectroscopic techniques used in structure determination and analytical purposes. • Students will be able to apply the knowledge for quantitative analysis of samples and to identify unknown molecules from a given set of characteristic spectra. • Students will use spectroscopic data to make meaningful observations about the chemical properties of compounds. • This advanced course addresses various aspects of spectroscopic chemical analyses and separation techniques strongly bonded to both research and industry.	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Photo Chemistry	• To learn the Photochemical excitation and Jablonski diagram • To know about the study of photochemistry of ketone photo reduction photo cycloaddition • To know the detail study of Photo redox reactions and photo substitution reactions • To study the photovoltaic and photo galvanic cells • To learn the Photo electro chemistry and aspects of solar energy conversion	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Environmental Chemistry	• Structure and compositions of atmosphere, lithosphere, hydrosphere and biosphere. • The brief ideas about different pollutions and photochemical reactions in the atmosphere. • The brief ideas about heavy metal pollution, sources, classification and disposal of wastes and hazardous substances. • Sources and characteristics of pollutants from some typical industrial effluents and their treatment. • The current chemical hazards, toxic materials, biological injury to health and remedial methods to minimize the detrimental effects of these hazards. • Different laws of pollution and environmental disasters.	
				Optional (Any Two)		

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Heterocyclic Chemistry	• Theoretical understanding of heterocyclic chemistry which includes various methods for ring synthesis. • Application of methods for the preparation of specific groups of heterocyclic systems. • Understand properties, reactions, and applications of 3, 4 and 5 member heterocyclic compounds.	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Polymers	After studying this course, students will be able to: • The structure and properties of polymers in solution and in bulk state. • Recent methods and chemistry of polymerization, polymer stability, and their industrial applications. • Design recipe for the fabrication of polymer materials to develop new products with scope for specific application. • compare the mechanical properties of polymers based on their structures • Estimate the number- and weight-average molecular masses of polymer samples given the degree of polymerisation and mass fraction of chains present. • Estimate different preparation, properties and applications of inorganic polymers.	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Organotransition Metal Chemistry	Upon studying the course the students will learn • To describe the synthesis, structure and bonding of organometallic compounds of □1-□□8 systems as well as organometallic compounds of main group elements. • Various types of organometallic reactions, synthesis, structure and bonding of metallocenes with special reference to ferrocene. • Stoichiometric reactions for catalysis,	
				Skill Enhancement (Introduction to Pharmaceutical Biotechnology)		
			Second/ Fourth	Application of Spectroscopy II	• Will be able to interpret UV-Visible spectroscopy • Will be able to interpret IR spectroscopy • Will be able to interpret NMR spectroscopy • Will be able to interpret Carbon-13 NMR spectroscopy • Will be able to interpret Mass spectroscopy	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Solid State Chemistry	Upon studying the course the students will learn • Solid State Reactions: • Crystal Defects and Non-Stoichiometry: Methods of X-ray Diffraction, Perfect. • Electronic Properties and Band Theory. • Organic Solids: Electrically conducting solids. Organic charge transfer complex, organic metals, new Superconductors. • Liquid Crystals: Types of liquid crystals: Nematic, Smectic, Ferroelectric, Antiferroelectric, Various theories of LC, Liquid crystal display, New materials.	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Biochemistry	• To study about the basics of transport properties and electrochemical phenomena • To know about the various metal ions present in our body • To learn about the different enzymes participating in the chemical reactions inside the body and their functions • To study about the different oxygen carriers present in the body with their structure and stereochemistry • To study in detail about nitrogen fixation reactions and microorganisms involved in nitrogen fixation reactions • To know about the biological redox systems and their classifications • To create awareness about metal toxicities, their detection and permissible levels in the body	
				Optional (Any Two)		

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Organic Synthesis	• To know about the stereochemical problems in relation to chemical transformations • To know synthetically the processes relevant organic chemical reactions and be able to discuss the mechanism of these reactions • To correlate the chemical structure of biomolecules to reactivity: Functional groups, acid base properties, biochemical as well as synthetic routes • To learn to discuss the similarities and	
				emistry of Natural Produ	• To know the basic classification and role of alkaloids • To learn the structural elucidation and degradation of alkaloids • To gain knowledge about the synthesis and structure of alkaloids • To know about the stereochemistry of alkaloids • To understand the isolation and structural determination of alkaloids • To learn about terpenoids and its classification • To study isoprene rule • To elucidate the structure of camphor • To study about squalene and abetic acid • To learn carbohydrates and its types • To elucidate the structure of starch and cellulose	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Analytical Chemistry	• To get an outline about the types as ligands for chelating agents and various types of complexometric titrations • To learn about estimation of hardness of water through complexometric titrations • To know about the various radio analytical methods for learning the reaction rates, the age of the materials, to develop tracers for various organs and tissues • To obtain a detailed knowledge about Atomic absorption spectroscopy for studying the concentration of various elements • To study about the stages of thermal degradation patterns of materials using TGA and DTA techniques	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Electrochemistry	• To learn concept of ionic activity and ionic strength • To derive Nernst equation and redox system • To study Debye Huckel theory, Kohlraush's law and Debye Huckel Bronsted equation • To learn Electrode electrolyte interface and electrical double layer, Electrocapillary phenomenon • To derive Lippmann Equation, Helmholtz Perrin, Guoy • Chapman and Stern model of electrical double layers • To study the mechanism of electrode reaction and the Butler Volmer equation	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Medicinal Chemistry	• Recall the basic principles of medicinal chemistry and develop a brief software concept on QSAR • Rational use of antiviral and Antimalarial drugs along with new updates. • Explain the Structure Activity Relationship, mechanism of action, synthesis and use of antihistaminic and antiasthamatic. • Prepare themselves for the lifelong learning of Antibiotics (used in chemotherapy). • Understand the significance of drug metabolism and biotransformation in medicinal chemistry.	
				Skill Enhancement (Introduction to Organic Farming)	• Understand the scope and concept of organic farming. • Understand the soil science and agriculture chemistry. • Manage water for irrigation and different uses. • Have practical knowledge of vegetable culture and nursery management.	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Project Work / Internship & Viva-Voce	This gives practical exposure in the Project work, knowledge which will equip the students in Research work.	

Programme Name: PGDCA

This program could provide well trained professionals for the industries, banking sectors, insurance companies, financing companies, logistics, and distribution channel management. Skills to analyze a problem, and identify and define the logical modeling of solutions. Ability to design, implements and evaluate a computer-based system, process, component, or programme to meet stakeholder needs. The knack to function effectively in teams to accomplish a common goal. A sense of professional, ethical, legal, security and social issues and responsibilities. Effectiveness in communicating with a wide range of audiences.

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
PGDCA	Computer Application	Students get the understanding to apply knowledge of computing and technological advances which is appropriate to the programme. This program provides specialization in computer science with technical, professional and communications skills. It also trains students to become future IT professionals. This programme will give the aspirants a sound understanding of basic computer applications in business covering key programming languages, data base management, systems analysis, computer software development in specific applications such as studies, financial management and long range planning. This program allows students to seek professional knowledge in computer applications.	First/ First	Fundamentals of Computer	Understand the fundamental hardware components that make up a computer's hardware and the role of each of these components. Identify and analyze computer hardware, software, and network components. Use systems development, word-processing, spreadsheet, and presentation software to solve basic information systems problems. Understand the difference between an operating system and an application program, and what each is used for in a computer. Describe some examples of computers and state the effect that the use of computer technology has had on some common products.	Computer science & Electronics
				C-Language	Able to understand overview of Programming Languages and Language Processors. Understand and remember algorithms, Flowchart with design and Proper Procedure. To understand how to design, implement, test, debug, and document programs that use basic Data types, Operator, I/O, Header Files, Conditional and control statement, string handling and functions.	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				PC-Packages	Understand the basics of computer hardware and how software interacts with computer hardware. Understand the description and functions of Desktop icons like Desktop, my computer, Recycle Bin, Network Neighborhood, copying a files & folders, Screen saver, Windows Explorer. Understand how to work and use the application of Windows Accessories, Understand to apply the formulas of Ms-Excel how to make charts. How to prepare a presentation through Ms-Power-point.	
				Operating Systems	To make students able to learn different types of operating systems along with concept of file systems and CPU scheduling algorithms used in operating system. To provide students knowledge of memory management and deadlock handling algorithms. Able to implement various algorithms required for management, scheduling, allocation and communication used in operating system.	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				System Analysis and Design	Students will have gained comprehensive theoretical knowledge as well as practical skills related to the system development process of information systems. Able to gather data to analyze and specify the requirements of a system. Able to design system components and environments. Able to build general and detailed models that assist programmers in implementing a system. Able to design a database for storing data and a user interface for data input and output, as well as controls to protect the system and its data.	
				Skill Enhancement		
				Project Work / Internship & Viva-Voce	This gives practical exposure in the Project work, knowledge which will equip the students in Research work. The aim of the Project work is to acquire practical knowledge on the implementation of various applications using the learned technologies.	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
			First/ Second	Web Designing	Understand the principles of creating an effective web page, including an in-depth consideration of information architecture. Become familiar with graphic design principles that relate to web design and learn how to implement these theories into practice. Develop skills in analyzing the usability of a web site. Understand how to plan and conduct user research related to web usability. Learn the language of the web: HTML and CSS. Learn techniques of responsive web design, including media queries. Develop skills in digital imaging (Adobe Photoshop). Be able to embed social media content into web pages.	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Visual Basic Programmin	Design, formulate, and construct applications with VB. Integrate variables and constants into calculations applying VB. Determine logical alternatives with VB decision structures. Implement lists and loops with VB controls and iteration. Separate operations into appropriate VB procedures and functions. Assemble multiple forms, modules, and menus into working VB solutions. Create VB programs using multiple array techniques. Build integrated VB solutions using files and structures with printing capabilities. Translate general requirements into data-related solutions using database concepts.	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				RDBMS Using Oracle	Enhance the knowledge and understanding of Database analysis and design. Enhance the knowledge of the processes of Database Development and Administration using SQL and PL/SQL. Enhance Programming and Software Engineering skills and techniques using SQL and PL/SQL. Preparation of background materials and documentation needed for Technical Support using SQL and PL/SQL. Use the Relational model and how it is supported by SQL and PL/SQL. Use the PL/SQL code constructs of IF-THEN-ELSE and LOOP types as well as syntax and command functions. Solve Database problems using Oracle 9i SQL and PL/SQL. This will include the use of Procedures, Functions, Packages, and Triggers.	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Computer Networking	Describe the functions of each layer in OSI and TCP/IP model. Explain the functions of Application layer and Presentation layer paradigms and Protocols. Describe the Session layer design issues and Transport layer services. Classify the routing protocols and analyze how to assign the IP addresses for the given network. Describe the functions of data link layer and explain the protocols. Explain the types of transmission media with real time applications.	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Internet & E-Commerce	Demonstrate an understanding of the foundations and importance of E-commerce. Demonstrate an understanding of retailing in E-commerce by analyzing branding and pricing strategies, using and determining the effectiveness of market research, and assessing the effects of disintermediation. Analyze the impact of E-commerce on business models and strategy. Describe Internet trading relationships including Business to Consumer, Business-to-Business, Intra-organizational. Describe the infrastructure for E-commerce, key features of Internet, Intranets and Extranets and explain how they relate to each other. Discuss legal issues and privacy in E-Commerce. Assess electronic payment systems. Recognize and discuss global E-commerce issues.	
				Skill Enhancement		
				Project Work / Internship & Viva-Voce	This gives practical exposure in the Project work, knowledge which will equip the students in Research work. The aim of the Project work is to acquire practical knowledge on the implementation of various applications using the learned technologies.	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
Programme Name: M.COM						
This program could provide well trained professionals for the Industries, Banking Sectors, Insurance Companies, Financing companies, Logistics, distribution channel management, Application of Information technology in Business, Alternative investment management technique etc., to meet the well trained manpower requirements. The graduates will get hands on experience in various aspects acquiring skills for Marketing Manager, Sales Manager, Bank manager, Cost accountant, Academicians, Project management, Research Analysts, and Over all Administration abilities of the Company.						

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
M.COM	Commerce	The students should possess the knowledge, skills and attitudes during the end of the M.com degree course. By virtue of the training and curriculum, they can become an Managers, Accountants , Cost Accountants, Bank Managers, Auditors, Company Secretaries, Teachers, Professors, Stock Agents, Government jobs etc.,	First/ First	Management Concepts	Apply management concepts and approaches including planning for, organizing, and controlling organizational resources, preparing for and managing organizational change, and managing and leading people. Demonstrate the ability to evaluate, analyze and interpret financial information, and use financial data for business decision-making. Sound approaches in critical thinking and problem-solving including identifying, formulating and communicating questions that guide investigation and reflection, systematically organizing complex topics into their component parts, and moving from making simple connections to gaining a true understanding. Apply key theories, models and applications within the global business context. Demonstrate critical thinking skills in business related situations. • Employ empirical approaches to planning and decision-making using quantitative reporting mechanisms.	Commerce

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Business Environment	To enable define various elements internal as well as external affecting business environment. Students is able for explain the techniques like SWOT analysis. Students is able for define the terms like inflation, GDP, etc. Students is able for define the consequences with regard to Balance of Payment Students is able for explain the economic trends and effect of Govt. policies as LPG. To Understand the Outline how an entity operates in a business environment. Describe how financial information is utilized in business. Explain the legal framework that regulates of Business. Discuss the international monitory organizations like International Monitory fun, World banks etc. and its impact on Business. Explain the effects of government policy on the economic environment. To provide knowledge of the environment in which businesses operate, the economic operational and financial framework with particular application to the transaction of business.	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Advance Accounting	Demonstrate knowledge of accounting principles and concepts, Financial accounting reports. Need for preparation of Bank Reconciliation statement. Course provides knowledge of preparation of accounting of nonprofit organization and royalty accounting. Students will be able to rectifying the errors in accounting disclosures. Students will be able to demonstrate knowledge of depreciation accounting. Students will be able to demonstrate knowledge of various advanced accounting issues related to Hire Purchase system, Instalment Payment system accounting for incomplete record. After the successful completion of the course the student will be able to demonstrate knowledge of various accounting practice prevailing in Dissolution of partnership firms and other allied aspects.	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Cost Analysis and Control	To understand the basic concepts and processes used to determine product costs. To able to interpret cost accounting statements. To enable the Students for Define the various components of total cost of a product i.e. direct & indirect cost and fixed & flexible cost. Determine various levels of material i.e. reorder level, minimum level, maximum level & Economic Order Quantity for managing various Stock levels. Define the features of overhead or indirect cost of production and apportionment. Use cost sheet to compute unit cost of product. For Determine basis for computing tender price of a product. To develop an in-depth analysis skills and controlling techniquesThis course provides students with in-depth analysis skills through Cost Analysis and Control tools and techniques.	
				Skill Enhancement		
				Basic Computer and Accounting Software		

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
			First/ Second	Corporate Legal Framework	Explain and distinguish the concept of regulation and the different mechanisms used to implement or achieve regulatory objectives. Identify and use a range of appropriate legal sources to find and interpret various regulatory sources, including legislation, industry codes, and court judgment, and anticipate or recognize their regulatory intent; Identify, analyse and reflect on the influence of underlying constitutional and institutional frameworks in which those regulatory sources operate Recognize and critically evaluate how principles of private and public law interact with concerns relating to subjectivity and unfairness, the role of different organizational forms, establishing markets and enhancing the role of competition, impact of international obligations, and relations between Commonwealth, State and local governments. Plan and execute a research project examining the legal framework of a regulatory scheme related to those	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Organizational Behaviour	Define, explain and illustrate a range of organizational behavior theories; Analyze the behavior of individuals and groups in organizations in terms of organizational behavior theories, models and concepts; Apply organizational behavior concepts, models and theories to real life management situations through case analysis; Demonstrate a critical understanding of organizational behavior theories and current empirical research associated with the topics covered in this course; and, Communicate effectively in oral and written forms about organisational behaviour theories and their application using appropriate concepts, logic and rhetorical conventions.	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Advance Statistical Analysis	The objective of this paper is to provide an understanding for the graduate business student on statistical concepts to include measurements of location and dispersion, probability, probability distributions, sampling, estimation, hypothesis testing, regression, and correlation analysis, multiple regression and business / economic forecasting.	
				Functional Management	To development skill to make financial plan of the functional area of management Evaluate alternative financing options. Apply measures of cost of capital and financial leverage to form long-term financial policies for business. It provide an understanding Man-power planning and selection procedure It provide an understanding of product life cycle It provide Concept of diversification, Standardization, Simplification and Specialization of product	
				Skill Enhancement		
				Communication Lab		

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
			Second/ Third	Managerial Economics	The students acquire the knowledge of Demand forecasting in sales management, Price fixing, market competitors, and management business economically. Able to Identify sources of economic value. Able to Understand the mechanisms of competition and their business implications. Able Anticipate future market trends and dynamics, including in terms of competition policy. Able to understand economic environment within which business enterprises operate. ability to assess, in broad terms, implications of economic policies and other economic events for the national economy, an industry and an enterprise. A critical appreciation of macroeconomic forecasts and their value and limitations	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Tax Planning and Management	This course enables the students with the knowledge about the Tax Planning, and Tax management techniques. Students will get working knowledge regarding legitimate way of tax planning under different financial/ managerial decisions The objective of Tax Management is to comply with the provisions of Income Tax Law and its allied rules Tax Management helps in avoiding payment of interest, penalty, prosecution etc. Tax Planning helps in minimizing Tax Liability in Short-Term and in Long Term Tax Management deals with filing of Return in time, getting the accounts audited, deducting tax at source etc. Tax Management relate to Assessment Proceedings, Appeals, and Revisions etc.	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Entrepreneurship Skill Development	Students will be able to define, identify and/or apply the principles of entrepreneurial management and growth through strategic plans, consulting projects and/or implementing their own businesses; Students will be able to define, identify and/or apply the principles of entrepreneurial and family business; Students will be able to define, identify and/or apply the principles of viability of businesses, new business proposals, and opportunities within existing businesses; Students will be able to define, identify and/or apply the principles of preparing a start-up business plan emphasizing financing, marketing, and organizing; Students will be able to define, identify and/or apply the principles of creating and defending an entrepreneurial marketing plan; Students will be able to define, identify and/or apply the principles of developing pro forma financial statements;	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Accounting for Managerial Decisions	Set of practices and techniques aimed at providing potential managers with knowledge. To helps them in learning how to make decisions and maintain effective control over corporate resources. The course teaches various Managerial accounting procedures that are intended primarily to supply knowledge to future decision maker of an organization. It develops how to analyze financial information's which can use to make financial decision making. They can play a large role in decision-making. Students are able to analyse risk and cost management decisions. They are able to make budgeting decisions and writing financial reports.	
				Skill Enhancement		
				Public Speaking		
			Second/ Fourth	**Taxation Group**		

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Direct Tax in India	Develop knowledge related to tax accounting rules and regulations, and analyze and resolve tax problems. Identify, define, and resolve tax issues through their understanding, knowledge, and application of research methods and databases. Recognize and apply relevant ethical standards as required in tax practice. Write skilful tax communications and be skilful in oral presentations. .Understand the underlying principles of taxation law and how to apply these in various situations. Identify and apply relevant sections of legislation and principles of case law. Critically evaluate the role of Taxation.	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Business Taxation	Develop awareness of how changes in taxation law may affect business practice and the provision of advice To make aware about provisions of direct tax with regard to IT Act. To understand the assessment procedure of Individual, Association of person, Hindu Undivided Family, Firms and companies. To understand the assessment co-operative societies, charitable and other trust and companies. To understand the provision of double taxation etc To understand the various deductions to be made from gross total income U/s 80C to 80-U in computing total income. To understand the procedure and provisions to compute gross total Income, Taxable Income and Tax Liability of Individuals.	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Indirect Taxes	Students will learn to define various types of indirect taxes and GST. Utilize the definitions of the various components of goods and service tax. Apply an understanding of the common statutes of limitations in federal GST cases Apply an understanding of the common penalties in federal GST cases. Develop an understanding of the registration under GST Develop an understanding of the composition levy Develop an understanding of the rules and provision of input tax credit	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Sales and Service Tax	Students will learn to define sales and Service Tax Utilize the definitions of the various components of Sales and service tax. Apply an understanding of the different ways a case can progress from audit to court. Apply an understanding of the common statutes of limitations in federal Sales and service tax. Apply an understanding of the common penalties in federal Sales and service tax.	
				Skill Enhancement		
				Project Work & Viva-Voce	This gives practical exposure in the Project work, knowledge which will equip the students in Research work. The aim of the Project work is to acquire practical knowledge on the implementation of the Finance, HR & Marketing studied.	
				OR – Marketing Management Group		

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				sement and Sales Mana	On successful completion of this course the students should have the practical knowledge and he tactics in the marketing. Determine, analyze and respond to clients' advertising and marketing communications objectives by applying principles of marketing and communications. Perform a market segmentation analysis, determine the organization's target market/audience and define the consumer behavior of each segment. Develop an integrated advertising and marketing communications plan and persuasively present and defend it. Evaluate the effectiveness of integrated advertising and marketing communications initiatives. Develop advertising and marketing communications material in compliance with current Canadian legislation, industry standards and business practices. Develop creative solutions to address advertising and marketing communications challenges. Plan, implement, monitor and evaluate	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Consumer Behaviour	On successful completion of this course the students Be able to identify the dynamics of human behavior and the basic factors that influence the consumers decision process able to demonstrate how concepts may be applied to marketing strategy The aim of the paper is to draw together theories relevant to energy use in order to aid policy making in the broader context and to develop the discussion around integrated theories of consumer behavior. identify the major influences in consumer behavior development an understanding buying behavior influences Establish the relevance of consumer needs and motivation Implement appropriate combinations of theories and concepts Recognize social and ethical implications of marketing actions on consumer behavior	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				l and Agriculture Marke	On successful completion of this course the students will be efficient in managing improvement of process leading to increased productivity in agriculture and horticulture sector. It has been observed that India being top most country in agriculture is lagging behind with fast changing needs nationally as well as internationally. They will develop strategy programs for uplifting social and economic status of farmers. The Students will be exposed to subject expert in the field of agriculture and related area. The students will be having an understanding of agricultural marketing, product development, agriproduct distribution, etc. The students will be encourage in developing agricultural marketing. The students will develop systematic observation and analytical skills through study of this subject. Develop an understanding of the Indian rural economy.	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				International Marketing	The students acquires the knowledge about the Foreign trade, Foreign exchange, etc. define, explain and illustrate: the marketing principles that together constitute the field of study known as international marketing; To develop an understanding overseas product development To develop an understanding of direct and indirect trading Develop how to enter into foreign market. explain and illustrate: challenges of doing business in very different cultural environments the development of sustainable competitive advantage and international marketing strategies that are designed to increase the chances for the firm to be successful in a foreign market; To develop an understanding of Import and Export procedure and documents required	
				Skill Enhancement		

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Project Work & Viva-Voce	This gives practical exposure in the Project work, knowledge which will equip the students in Research work. The aim of the Project work is to acquire practical knowledge. Projects help them to understand practicability of syllabus they studied. Project improves student's analytical ability. Viva voce of the project work develop self confidence and presentation ability in the students.	
				OR – FINANCIAL ANALYSIS AND CONTROL GROUP		

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				nalysis and Portfolio Ma	The students will be enabled with knowledge of portfolio management, Portfolio analysis and management etc. On the successful completion of this course the student will be able to understand the various alternatives available for investment. Learn to measure risk and return. Find the relationship between risk and return. Value the equities and bonds. Gain knowledge of the various strategies followed by investment practitioners The candidate possesses advanced knowledge in the field of information security in general and the following particular topics like security management, incident response, security of critical information infrastructure and legal aspects of information security. The candidate possesses special insight and expertise in information security technology, digital forensics or security management, depending on the chosen program track. The candidate is capable of applying knowledge in new areas within the field of information security.	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				tegic Financial Manager	Making students aware complexity of business and finance strategy. Understand how to formulate a financial strategy taking account of a range of stakeholders and their interests and differing financing options. Identify and critique a range of investment appraisal techniques, select as appropriate and apply within the investment appraisal process, and make a justifiable recommendation. Understand the implication of differing types of capital structure and their implications for cost of capital and associated decisions. Understand the drivers for financial restructuring and the consequences for liquidity and financing requirements. The ability to undertake research into a financially related business problem and to apply skills in the assembling and analysis of data collected.	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				ct Planning and Manage	To develop understanding the difference between operations and projects To develop understanding the importance of project management as it effects strategy and business success To be aware of past performance on projects To be familiar with the planning and execution phases of a project To understand the relationship between strategic plans and projects To understand the importance of strategic planning of priority setting To understand project prioritization methods	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Indian Financial System	Understand the features, roles, and classifications of the Indian Financial System Identify the variations in the organized and unorganized Indian Financial System recognize the features explain the features of the derivatives Classify the different derivatives of Indian Financial System Understand the concepts and features of forward, future, options Distinguish between forward and future, future and options, and call option and put option Identify the regulators of the Indian financial System	
				Skill Enhancement		

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Project Work & Viva-Voce	This gives practical exposure in the Project work, knowledge which will equip the students in Research work. The aim of the Project work is to acquire practical knowledge. Projects help them to understand practicability of syllabus they studied. Project improves student's analytical ability. Viva voce of the project work develop self confidence and presentation ability in the students.	
				OR – ACCOUNTING GROUP		

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Corporate Accounting	This course aims to enlighten the students on the accounting procedures followed by the Companies. To enable the students to be aware on the Corporate Accounting in conformity with the provision of the Companies Act. The main objective of this subject to provide the knowledge of companies, Shares and regulatory of companies. Develop the ability to use accounting system of companies. To create (record, classify, and summarize) the data need. .To solve a variety of corporate business problems of accounting procedure like amalgamation, merger, reconstruction and liquidation etc.	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Administration and Co	This course provides students with in-depth control techniques and better understanding about cost administration in a manufacturing unit To enable the Students application of marginal costing and various tools and techniques of decision making Procedure of various budgets related to manufacturing element such as flexible budget, material budget, performance budgets etc. To understand the concept of pricing and pricing methods. To understand cost reduction and cost control techniques. Enable to understand Total quality management, product life cycle costing, enterprise resource planning etc To understand various control techniques such as Inventory control techniques, Business process outsourcing	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Accounting Theory	The overall aim of the course is to move on students understanding of accounting theory, thereby preparing students to read and think critically and creatively about issues in accounting. Understand and explain central concepts in accounting. Demonstrate an understanding of how different measurement concepts affect values and results. Relate accounting theory to the practice of accounting. Reflect critically upon underlying principles, accounting theories, concepts, conventions, assumptions and arguments in accounting and assess how perspectives can change depending on different theoretical points of departure.	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Institutional Accounting	The students will recognize commonly used Institutional financial statements, their components and how information from business transactions flows into these statements, applying both quantitative and qualitative knowledge to their future careers in business. Students will learn relevant accounting treatment of acquisition cost of subsidiary company and its various elements Students will learn accounting procedure of Banking and Insurance companies The students will be able to demonstrate financial statements of Not for profit organizations Students will learn accounting procedure of Co-operating societies and Hotel companies Students will learn accounting procedure of public utility company, like electricity company	
				Skill Enhancement		

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Project Work & Viva-Voce	This gives practical exposure in the Project work, knowledge which will equip the students in Research work. The aim of the Project work is to acquire practical knowledge. Projects help them to understand practicability of syllabus they studied. Project improves student's analytical ability. Viva voce of the project work develop self confidence and presentation ability in the students.	
Programme Name: BSC						

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**

Students taking admission to this program of B.Sc. are expected to get equipped with following outcomes:

1. Ability to explain the basic scientific principles and methods.
2. Inculcating scientific thinking and awareness among the student.
3. Ability to handle the unexpected situation by critically analyzing the problem.
4. Understanding the issues related to nature and environmental contexts and sustainable development.
5. Acquired the knowledge with facts and figures related to various subjects in pure sciences such as Physics, Chemistry, Botany, Zoology, Mathematics, etc.
6. Understood the basic concepts, fundamental principles, and the scientific theories related to various scientific phenomena and their relevancies in the day-to-day life.
7. Acquired the skills in handling scientific instruments, planning and performing in laboratory experiments.
8. The skills of observations and drawing logical inferences from the scientific experiments.
9. Developed scientific outlook not only with respect to science subjects but also in all aspects related to life.
10. Analyzed the given scientific data critically and systematically and the ability to draw the objective conclusions.
11. Able to think creatively to propose novel ideas in explaining facts and figures or providing new solution to the problems.
12. Realized how developments in any science subject helps in the development of other science subjects and vice-versa and how interdisciplinary approach helps in providing better solutions and new ideas for the sustainable developments.
13. Imbibed ethical, moral and social values in personal and social life leading to highly cultured and civilized personality.
14. Developed various communication skills such as reading, listening, speaking, etc., which will help in expressing ideas and views clearly and effectively.
15. Realized that chase of knowledge is a lifelong activity and in combination with untiring efforts and positive attitude and other necessary qualities leads towards a successful life.
16. An ability to analyze the local and global impact of computing on individuals, organizations, and society. Recognition of the need for and an ability to engage in continuing professional development.
17. Graduates will assume professional leadership roles.
18. To engage in professional development and to pursue post graduate education in the fields of science.

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
BSC	CS	Provide students with the educational experiences that will enable them to cope with the rapidly changing subject of Computer Science. Produce world class IT professionals who will take care of the computing needs of the Royal Government and the industries. An ability to analyze a problem, and identify and	Third/Fifth	BSC-T501 Object oriented programming using c++	Able to use the characteristics of an object-oriented programming language in a program. Able to use the basic object-oriented design principles in computer problem solving. Able to program with advanced features of the C++ programming language. Able to use C++ classes for code reuse. Implement exception handling and templates. Develop applications using Console I/O and File I/O.	CS & Elex

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
		define the computing requirements appropriate to its solution. An ability to design, implements, and evaluate a computer-based system, process, component, or program to meet desired needs. An ability to function effectively on teams to accomplish a common goal. An ability to communicate effectively with a wide range of audiences. An ability to apply design and development principles in the construction of software systems of varying complexity. An ability to use current techniques, skills, and tools necessary for computing practice. To engage in professional development and to pursue		BSC-T502 Quantum mechanics & spectroscopy	By the end of this Course students should be able to know about: 1. Pinpoint the historical aspects of development of quantum mechanics 2. Understand and explain the differences between classical and quantum mechanics 3. Understand the idea of wave function 4. Understand the uncertainty relations 5. Solve Schrodinger equation for simple potentials 6. Describe the atomic spectra of one and two valance electron atoms 7. Explain the change in behavior of atoms in external applied electric and magnetic field 8. Explain rotational, Vibrational, electronic and Raman spectra of molecules. 9. Demonstrate a knowledge of fundamental aspects of the structure of the nucleus, radioactive decay, nuclear reactions and the interaction of radiation and matter. 10. Knowledge about nuclear fission	Physics

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
		post graduate education in the fields of Information Technology, Computer Applications and computer science etc. An ability to apply mathematical foundations, algorithmic principles, and computer science theory in the modelling and design of computer-based systems in a way that demonstrates comprehension of the tradeoffs involved in design choices.		BSC-T503 Linear algebra & numerical analysis	1. Identify and construct linear transformations of a matrix. 2. Characterize linear transformations as onto, one-to-one. 3. Solve linear systems represented as linear transforms. 4. Express linear transforms in other forms, such as as matrix equations, and vector equations. 5. Characterize a set of vectors and linear systems using the concept of linear independence 6. Understand the theoretical and practical aspects of the use of numerical analysis. 7. Proficient in implementing numerical methods for a variety of multidisciplinary applications. 8. Establish the limitations, advantages, and disadvantages of numerical analysis. 9. Derive numerical methods for various mathematical operations and tasks, such as interpolation, differentiation, integration, the solution of linear and nonlinear equations, and	Maths

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				BSC-T504 Environment & language	**Hindi Language & moral values** Understand the basic concepts of Hindi language-sentence structure, standard grammar, common Idioms and proverbs. Develop understanding of correct pronunciation so as to communicate clearly, correctly and fluently in Hindi. Develop writing skills and demonstrate the ability to write meaningful applications, usiness letters, paragraphs and reports Use reading skills to foster comprehension of prose and poetry. Develop individual perspective and demonstrate critical thinking skills, logical organization, and command over Hindi Use current technology related to the communication field Appreciate the literary works in Hindi	Foundation

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
					English Language Understand the basic concepts of English language-sentence structure, standard grammar, common Idioms and phrases. Develop understanding of phonetics, so as to communicate clearly, correctly and fluently in English. Develop writing skills and demonstrate the ability to write meaningful applications, business letters, paragraphs and reports. Use reading skills to foster comprehension of prose and poetry. Develop individual perspective and demonstrate critical thinking skills, logical organization, and command of standard grammar. Use current technology related to the communication field. Appreciate the literary works in English.	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
					Environment Language Recognize the physical, chemical, and biological components of the earth's systems and how they function. Understand the environmental concerns Understand the relationship of man with the environment and help them change his attitude for more positive, proactive, eco- friendly and sustainable lifestyles. Get information about climate change. Global warming, Acid rain, Green house effect, Ozone layer depletion. Cultivate attitudes to safeguard the environment Realize of the impact of human actions on the immediate environment degradation Get information about Environment Protection Laws. Understand the Disaster mnagement Techniques to solve environmental problems across local to global scales	
				Skill Enhancement		CS & Elex

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
			Third/ Sixth	BSC-T601 Computer network	Understanding the concepts, vocabulary and techniques currently used in the area of computer networks. Getting known with wireless networking concepts. Understanding classification of network, transmission impairments, Data transmission methods etc. Understanding installation of Windows Server 2008 and managing active directory.	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				BSC-T602 Solid state physics & devices	By the end of this Course students should be able to know about: 1. Understand the fundamentals of the physics of condensed matters, specifically crystalline materials. 2. Identify crystal lattices and their structures. 3. Formulate the theory of lattice vibrations (phonons) and use that to determine thermal properties of solids 4. Students understand the basic materials and properties of semiconductors with application to the p-n junction and diode circuits. 5. Students understand the application of Bipolar Junction Transistors with the applications. 6. Understand the knowledge of field effect	Physics

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				BSC-T603 Real analysis,discrete mathematics	1.Developing the knowledge of real number and real valued functions such as sequences convergence and continuity. 2. Studying the properties of real numbers (Ries2 space and positive operators). 3. Study of algorithms that used in numerical approximation.	maths

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				BSC-T604 Environment & language	**Hindi Language & moral values** Understand the basic concepts of Hindi language-sentence structure, standard grammar, common Idioms and proverbs. Develop understanding of correct pronunciation so as to communicate clearly, correctly and fluently in Hindi. Develop writing skills and demonstrate the ability to write meaningful applications, usiness letters, paragraphs and reports Use reading skills to foster comprehension of prose and poetry. Develop individual perspective and demonstrate critical thinking skills, logical organization, and command over Hindi Use current technology related to the communication field Appreciate the literary works in Hindi	Foundation

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
					English Language Understand the basic concepts of English language-sentence structure, standard grammar, common Idioms and phrases. Develop understanding of phonetics, so as to communicate clearly, correctly and fluently in English. Develop writing skills and demonstrate the ability to write meaningful applications, business letters, paragraphs and reports. Use reading skills to foster comprehension of prose and poetry. Develop individual perspective and demonstrate critical thinking skills, logical organization, and command of standard grammar. Use current technology related to the communication field. Appreciate the literary works in English.	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
					Environment Language Recognize the physical, chemical, and biological components of the earth's systems and how they function. Understand the environmental concerns Understand the relationship of man with the environment and help them change his attitude for more positive, proactive, eco- friendly and sustainable lifestyles. Get information about climate change. Global warming, Acid rain, Green house effect, Ozone layer depletion. Cultivate attitudes to safeguard the environment Realize of the impact of human actions on the immediate environment degradation Get information about Environment Protection Laws. Understand the Disaster mnagement Techniques to solve environmental problems across local to global scales	
				Skill Enhancement		CS & Elex

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
	IT	Develop criteria to organize and present different type of works in academic and professional environments. Learn how to organize information efficiently in the forms of outlines, charts, etc. by using appropriate software. Develop the skills to present ideas effectively and efficiently. Academic and Professional Presentations - Designing and delivering an effective presentations and developing the various IT skills to the electronic databases.	Third/ Fifth	BSC-T501 Object oriented programming using c++	Able to use the characteristics of an object-oriented programming language in a program. Able to use the basic object-oriented design principles in computer problem solving. Able to program with advanced features of the C++ programming language. Able to use C++ classes for code reuse. Implement exception handling and templates. Develop applications using Console I/O and File I/O.	
				BSC-T502 Microprocessor & interfacing	The student will be able to analyze, specify, design, write and test assembly language programs of moderate complexity. The student will be able to select an appropriate 'architecture' or program design to apply to a particular situation. The student will be able to calculate the worst-case execution time of programs or parts of programs. Able to design and build, or to modify, software to maximize its run time memory or execution-time behavior. The student will be able to characterize and predict the effects of the properties of the bus on the overall performance of a system.	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				BSC-T503 Linear algebra & numerical analysis	1. Identify and construct linear transformations of a matrix. 2. Characterize linear transformations as onto, one-to-one. 3. Solve linear systems represented as linear transforms. 4. Express linear transforms in other forms, such as as matrix equations, and vector equations. 5. Characterize a set of vectors and linear systems using the concept of linear independence 6. Understand the theoretical and practical aspects of the use of numerical analysis. 7. Proficient in implementing numerical methods for a variety of multidisciplinary applications. 8. Establish the limitations, advantages, and disadvantages of numerical analysis. 9. Derive numerical methods for various mathematical operations and tasks, such as interpolation, differentiation, integration, the solution of linear and nonlinear equations, and	Maths

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				BSC-T504 Environment & language	**Hindi Language & moral values** Understand the basic concepts of Hindi language-sentence structure, standard grammar, common Idioms and proverbs. Develop understanding of correct pronunciation so as to communicate clearly, correctly and fluently in Hindi. Develop writing skills and demonstrate the ability to write meaningful applications, usiness letters, paragraphs and reports Use reading skills to foster comprehension of prose and poetry. Develop individual perspective and demonstrate critical thinking skills, logical organization, and command over Hindi Use current technology related to the communication field Appreciate the literary works in Hindi	Foundation

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
					English Language Understand the basic concepts of English language-sentence structure, standard grammar, common Idioms and phrases. Develop understanding of phonetics, so as to communicate clearly, correctly and fluently in English. Develop writing skills and demonstrate the ability to write meaningful applications, business letters, paragraphs and reports. Use reading skills to foster comprehension of prose and poetry. Develop individual perspective and demonstrate critical thinking skills, logical organization, and command of standard grammar. Use current technology related to the communication field. Appreciate the literary works in English.	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
					Environment Language Recognize the physical, chemical, and biological components of the earth's systems and how they function. Understand the environmental concerns Understand the relationship of man with the environment and help them change his attitude for more positive, proactive, eco- friendly and sustainable lifestyles. Get information about climate change. Global warming, Acid rain, Green house effect, Ozone layer depletion. Cultivate attitudes to safeguard the environment Realize of the impact of human actions on the immediate environment degradation Get information about Environment Protection Laws. Understand the Disaster mnagement Techniques to solve environmental problems across local to global scales	
				Skill Enhancement		CS & Elex

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				BSC-T506 Software engineering	Understanding how to work as an individual and as part of a multidisciplinary team to develop and deliver quality software. Demonstrating an understanding of and apply current theories, models, and techniques that provide a basis for the software lifecycle. Understanding methods and tools to design, implement, test, document, and maintain a software system.	
			Third/Sixth	BSC-T601 Java Programming	Knowledge of creating java programs that solve simple business problems. Knowledge of compile and execute java programs using class, object, constructors, destructors, inheritance, etc. Knowledge of creating and using of packages, multithreading, exception handling. Design and implement Applets programming and AWT.	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				BSC-T602 Electronics communication & Instrumentation	• Get knowledge of construction and working principal and applications of analog and digital instruments Measure electrical parameter. • Use Signal Generator, frequency counter, CRO and digital IC tester for appropriate measurement. • Test and troubleshoot electronic circuits using various measuring instruments. • Maintain various types of test and measuring instruments. • Understand different blocks in communication system and how noise affects communication using different parameters. • Identify and solve basic communication problems. • Analyze transmitter and receiver circuits. • Compare and contrast design issues, advantages, disadvantages and limitations of communication systems. • Interpret with differentiate types of transmitters and receivers used for particular application. • Create the spectrum and noise	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				BSC-T603 Real analysis,discrete mathematics & optional	1.Developing the knowledge of real number and real valued functions such as sequences convergence and continuity. 2. Studying the properties of real numbers (Ries2 space and positive operators). 3. Study of algorithms that used in numerical approximation.	Maths

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				BSC-T604 Environment & language	**Hindi Language & moral values** Understand the basic concepts of Hindi language-sentence structure, standard grammar, common Idioms and proverbs. Develop understanding of correct pronunciation so as to communicate clearly, correctly and fluently in Hindi. Develop writing skills and demonstrate the ability to write meaningful applications, usiness letters, paragraphs and reports Use reading skills to foster comprehension of prose and poetry. Develop individual perspective and demonstrate critical thinking skills, logical organization, and command over Hindi Use current technology related to the communication field Appreciate the literary works in Hindi	Foundation

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
					English Language Understand the basic concepts of English language-sentence structure, standard grammar, common Idioms and phrases. Develop understanding of phonetics, so as to communicate clearly, correctly and fluently in English. Develop writing skills and demonstrate the ability to write meaningful applications, business letters, paragraphs and reports. Use reading skills to foster comprehension of prose and poetry. Develop individual perspective and demonstrate critical thinking skills, logical organization, and command of standard grammar. Use current technology related to the communication field. Appreciate the literary works in English.	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
					Environment Language Recognize the physical, chemical, and biological components of the earth's systems and how they function. Understand the environmental concerns Understand the relationship of man with the environment and help them change his attitude for more positive, proactive, eco- friendly and sustainable lifestyles. Get information about climate change. Global warming, Acid rain, Green house effect, Ozone layer depletion. Cultivate attitudes to safeguard the environment Realize of the impact of human actions on the immediate environment degradation Get information about Environment Protection Laws. Understand the Disaster mnagement Techniques to solve environmental problems across local to global scales	
				Skill Enhancement		CS & Elex

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
	Biotechnology	• Inculcating scientific thinking and awareness among the student. • Acquire skills in handling scientific instruments, planning and performing in laboratory experiments. • The skills of observations and drawing logical inferences from the scientific experiments. • Get self-employment in the fields as: mushroom Cultivation, organic manure preparation, the horticultural plant production, cultivation of crops in poly-house condition, plant tissue culture laboratories etc. • Industrial application of microorganisms. • Understand the nature and basic concepts of cell biology like cell divisions, functions and human physiology. • Enable the student to get sufficient knowledge in principles and applications of	Third/Fifth	BSC – T501 IMMUNOLOGY AND ANIMAL BIOTECHNOLOGY	• To learn the basic concepts of Immunity. • Application of immunology in health and diagnostic purposes. • Explain the concept and application of monoclonal antibody technology. • To learn the techniques of animal cell cultures. • Construction of transgenic animals.	Bio Science
				BSC-T502 CHEMISTRY	• To identify organic compounds using UV,IR, Raman and PMR spectroscopic techniques. • Introduction to Green Chemistry • Role of electrolytes in biological processes • The students will get training in the quantitative analysis of metal ions and anions using gravimetric method. • Theoretical and practical knowledge of Water analysis. • Structure determination of various carbohydrates. • Elementary ideas of fats, oils, detergents, dyes and lubricants.	Chemistry

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
		principles and applications of bio instruments. • To inculcate knowledge in human immune responses towards micro organisms. • Enable the student to get sufficient knowledge in relationship between food and microbes, techniques used in food processing. • To inculcate knowledge about virus, their role in causing disease.		BSC – T503 – CORE COURSE III – COMPUTER SCIENCE – OBJECT ORIENTED PROGRAMMING USING C++	Able to use the characteristics of an object-oriented programming language in a program. Able to use the basic object-oriented design principles in computer problem solving. Able to program with advanced features of the C++ programming language. Able to use C++ classes for code reuse. Implement	CS & Elex
				OR		
				BSC – T503 – CORE COURSE III – PHARMA-CHEMISTRY – MEDICINAL CHEMISTRY	• Recall the basic principles of medicinal chemistry and develop a brief software concept on QSAR • Apply the core theoretical knowledge and explain the rational use and experiments for synthesis of drugs and also recall the structure of some important drugs. • Describe the drugs acting on cardiovascular system. • Employ the rational use of antiviral drugs. • Discover the new updates on the Antineoplastic and Antimalarial drugs and also able to describe the chemistry and structures of some important drugs	Chemistry

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				BSC-T503 ENVIRONMENT & LANGUAGE	**Hindi Language & moral values** Understand the basic concepts of Hindi language-sentence structure, standard grammar, common Idioms and proverbs. Develop understanding of correct pronunciation so as to communicate clearly, correctly and fluently in Hindi. Develop writing skills and demonstrate the ability to write meaningful applications, usiness letters, paragraphs and reports Use reading skills to foster comprehension of prose and poetry. Develop individual perspective and demonstrate critical thinking skills, logical organization, and command over Hindi Use current technology related to the communication field Appreciate the literary works in Hindi	Foundation

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
					English Language Understand the basic concepts of English language-sentence structure, standard grammar, common Idioms and phrases. Develop understanding of phonetics, so as to communicate clearly, correctly and fluently in English. Develop writing skills and demonstrate the ability to write meaningful applications,	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
					Environment Language Recognize the physical, chemical, and biological components of the earth's systems and how they function. Understand the environmental concerns Understand the relationship of man with the environment and help them change his attitude for more positive, proactive, eco- friendly and sustainable lifestyles. Get information about climate change. Global warming, Acid rain, Green house effect, Ozone layer depletion. Cultivate attitudes to safeguard the environment Realize of the impact of human actions on the immediate environment degradation Get information about Environment Protection Laws. Understand the Disaster mnagement. Techniques to solve environmental problems across local to global scales	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
			Third/ Sixth	BSC – T601 – CORE COURSE I – BIO-TECHNOLOGY – PLANT AND ENVIRONMENTAL BIOTECHNOLOGY	• To learn the techniques of solid waste treatment. • To study the different types of pollution and their causes. • Application of plant biotechnology in agriculture. • To learn the techniques of micro propagation, seed hybrid formation and germplasm conservation.	Bio Science
				BSC – T602 – CORE COURSE II – CHEMISTRY – PHYSICAL, ORGANIC AND INORGANIC CHEMISTRY	• Understand the different photochemical reactions and their applications. • Understand different colligative properties. • Estimate different preparation, properties and applications of inorganic polymers. • Various types of organ metallic reactions, synthesis, structure and bonding of metallocenes with special reference to ferrocene. • Stoichiometric reactions for catalysis, homogeneous catalytic hydrogenation, Zeigler-Natta polymerization of olefins, catalytic reactions involving carbon monoxide such as hydrocarbonylation of olefins (oxoreaction).	Chemistry

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				BSC – T603 – CORE COURSE III – COMPUTER SCIENCE – COMPUTER NETWORK	Understanding the concepts, vocabulary and techniques currently used in the area of computer networks. Getting known with wireless networking concepts. Understanding classification of network, transmission impairments, Data transmission methods etc. Understanding installation of Windows Server 2008 and managing active directory.	CS & Elex
				BSC – T603 – CORE COURSE III – PHARMA-CHEMISTRY – DRUG ANALYSIS	• Demonstrate the principle, instrumentation & application of potentiometer, Conductometry, polarogarphy, amperometry. • Understand basic concept and principle of various electrochemical and physical methods of analysis like refractrometry and polarimetry. • Perform the assay procedures for various pharmaceuticals. • Discuss the fundamental of volumetric analysis, significance of quality control in pharmaceutical analysis and use methods of concentration expression. identify various analytical skills through lab exercises in acid base Titration.	Chemistry

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				BSC – T604 – ABILITY ENHANCEMENT COMPULSORY COURSE (AECC) – ENVIORNMENT & LANGUAGE	**Hindi Language & moral values** Understand the basic concepts of Hindi language-sentence structure, standard grammar, common Idioms and proverbs. Develop understanding of correct pronunciation so as to communicate clearly, correctly and fluently in Hindi. Develop writing skills and demonstrate the ability to write meaningful applications, usiness letters, paragraphs and reports Use reading skills to foster comprehension of prose and poetry. Develop individual perspective and demonstrate critical thinking skills, logical organization, and command over Hindi Use current technology related to the communication field Appreciate the literary works in Hindi	Foundation

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
					English Language Understand the basic concepts of English language-sentence structure, standard grammar, common Idioms and phrases. Develop understanding of phonetics, so as to communicate clearly, correctly and fluently in English. Develop writing skills and demonstrate the ability to write meaningful applications, business letters, paragraphs and reports. Use reading skills to foster comprehension of prose and poetry. Develop individual perspective and demonstrate critical thinking skills, logical organization, and command of standard grammar. Use current technology related to the communication field. Appreciate the literary works in English.	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
					Environment Language Recognize the physical, chemical, and biological components of the earth's systems and how they function. Understand the environmental concerns Understand the relationship of man with the environment and help them change his attitude for more positive, proactive, eco- friendly and sustainable lifestyles. Get information about climate change. Global warming, Acid rain, Green house effect, Ozone layer depletion. Cultivate attitudes to safeguard the environment Realize of the impact of human actions on the immediate environment degradation Get information about Environment Protection Laws. Understand the Disaster mnagement Techniques to solve environmental problems across local to global scales	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
	Chemistry	• Creating interest in environmental issue. • Increasing working knowledge of instruments. • Obtaining the knowledge of pharmaceutical tables • Social awareness about the quality of water. • Increasing the practical skill of the students • Awareness about plastic garbage. • provide a broad foundation in chemistry that stresses scientific reasoning and Analytical problem solving	Third/ Fifth	BSC-T501 CHEMISTRY	• To identify organic compounds using UV,IR, Raman and PMR spectroscopic techniques. • Introduction to Green Chemistry • Role of electrolytes in biological processes • The students will get training in the quantitative analysis of metal ions and anions using gravimetric method. • Theoretical and practical knowledge of Water analysis. • Structure determination of various carbohydrates. • Elementary ideas of fats, oils, detergents, dyes and lubricants.	chemical science

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
		with a molecular perspective. • achieve the skills required to succeed in graduate school, the chemical industry and professional school. • Get exposures of a breadth of experimental techniques using modern instrumentation. • understand the importance of the Periodic Table of the Elements, how it came to be, and its role in organizing chemical information. • understand the interdisciplinary nature of chemistry and to integrate knowledge of mathematics, physics and other disciplines to a wide variety of chemical problems. • learn the laboratory skills needed to design, safely and interpret chemical research. • acquire a foundation of chemistry of sufficient breadth and the depth to enable them to understand		BSC – T502 – CORE COURSE III – PHARMA-CHEMISTRY – MEDICINAL CHEMISTRY	• Recall the basic principles of medicinal chemistry and develop a brief software concept on QSAR • Apply the core theoretical knowledge and explain the rational use and experiments for synthesis of drugs and also recall the structure of some important drugs. • Describe the drugs acting on cardiovascular system. • Employ the rational use of antiviral drugs. • Discover the new updates on the Antineoplastic and Antimalarial drugs and also able to describe the chemistry and structures of some important drugs	
				BSC – T503 IMMUNOLOGY AND ANIMAL BIOTECHNOLOGY	• To learn the basic concepts of Immunity. • Application of immunology in health and diagnostic purposes. • Explain the concept and application of monoclonal antibody technology. • To learn the techniques of animal cell cultures. • Construction of transgenic animals.	Bio Science

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
		and critically interpret the primary chemical literature. • develop the ability to communicate scientific information and research results in written and oral formats. • learn professionalism, including the ability to work in teams and apply basic ethical principles.		BSC – T504 – ABILITY ENHANCEMENT COMPULSORY COURSE (AECC) – ENVIORNMENT & LANGUAGE	**Hindi Language & moral values** Understand the basic concepts of Hindi language-sentence structure, standard grammar, common Idioms and proverbs. Develop understanding of correct pronunciation so as to communicate clearly, correctly and fluently in Hindi. Develop writing skills and demonstrate the ability to write meaningful applications, usiness letters, paragraphs and reports Use reading skills to foster comprehension of prose and poetry. Develop individual perspective and demonstrate critical thinking skills, logical organization, and command over Hindi Use current technology related to the communication field Appreciate the literary works in Hindi	Foundation

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
					English Language Understand the basic concepts of English language-sentence structure, standard grammar, common Idioms and phrases. Develop understanding of phonetics, so as to communicate clearly, correctly and fluently in English. Develop writing skills and demonstrate the ability to write meaningful applications, business letters, paragraphs and reports. Use reading skills to foster comprehension of prose and poetry. Develop individual perspective and demonstrate critical thinking skills, logical organization, and command of standard grammar. Use current technology related to the communication field. Appreciate the literary works in English.	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
					Environment Language Recognize the physical, chemical, and biological components of the earth's systems and how they function. Understand the environmental concerns Understand the relationship of man with the environment and help them change his attitude for more positive, proactive, eco- friendly and sustainable lifestyles. Get information about climate change. Global warming, Acid rain, Green house effect, Ozone layer depletion. Cultivate attitudes to safeguard the environment Realize of the impact of human actions on the immediate environment degradation Get information about Environment Protection Laws. Understand the Disaster mnagement. Techniques to solve environmental problems across local to global scales	
				Skill Enhancement		

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
			Third/Sixth	BSC – T602 – CORE COURSE I – CHEMISTRY – PHYSICAL, ORGANIC AND INORGANIC CHEMISTRY	• Understand the different photochemical reactions and their applications. • Understand different colligative properties. • Estimate different preparation, properties and applications of inorganic polymers. • Various types of organ metallic	Chemistry
				BSC – T602 – CORE COURSE II – PHARMA-CHEMISTRY – MEDICINAL CHEMISTRY	• Recall the basic principles of medicinal chemistry and develop a brief software concept on QSAR • Apply the core theoretical knowledge and explain the rational use and experiments for synthesis of drugs and also recall the structure of some important drugs. • Describe the drugs acting on cardiovascular system	
				BSC – T603 – CORE COURSE III – COMPUTER SCIENCE – COMPUTER NETWORK	Understanding the concepts, vocabulary and techniques currently used in the area of computer networks. Getting known with wireless networking concepts. Understanding classification of network, transmission impairments, Data transmission methods etc. Understanding installation of Windows Server 2008 and managing active directory.	CS & Elex
				OR		

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				BSC – T603 – CORE COURSE III – BIO-TECHNOLOGY – PLANT AND ENVIRONMENTAL BIOTECHNOLOGY	• To learn the techniques of solid waste treatment. • To study the different types of pollution and their causes. • Application of plant biotechnology in agriculture. • To learn the techniques of micro propagation, seed hybrid formation and germplasm conservation.	Bio Science

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				BSC – T604 – ABILITY ENHANCEMENT COMPULSORY COURSE (AECC) – ENVIORNMENT & LANGUAGE	**Hindi Language & moral values** Understand the basic concepts of Hindi language-sentence structure, standard grammar, common Idioms and proverbs. Develop understanding of correct pronunciation so as to communicate clearly, correctly and fluently in Hindi. Develop writing skills and demonstrate the ability to write meaningful applications, usiness letters, paragraphs and reports Use reading skills to foster comprehension of prose and poetry. Develop individual perspective and demonstrate critical thinking skills, logical organization, and command over Hindi Use current technology related to the communication field Appreciate the literary works in Hindi	Foundation

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
					English Language Understand the basic concepts of English language-sentence structure, standard grammar, common Idioms and phrases. Develop understanding of phonetics, so as to communicate clearly, correctly and fluently in English. Develop writing skills and demonstrate the ability to write meaningful applications, business letters, paragraphs and reports. Use reading skills to foster comprehension of prose and poetry. Develop individual perspective and demonstrate critical thinking skills, logical organization, and command of standard grammar. Use current technology related to the communication field. Appreciate the literary works in English.	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
					Environment Language Recognize the physical, chemical, and biological components of the earth's systems and how they function. Understand the environmental concerns Understand the relationship of man with the environment and help them change his attitude for more positive, proactive, eco- friendly and sustainable lifestyles. Get information about climate change. Global warming, Acid rain, Green house effect, Ozone layer depletion. Cultivate attitudes to safeguard the environment Realize of the impact of human actions on the immediate environment degradation Get information about Environment Protection Laws. Understand the Disaster mnagement. Techniques to solve environmental problems across local to global scales	
				Skill Enhancement		
Programme Name: BCA						

SESSION 2018-2019

Programme	Discipline	Programme Specific Outcome	Class Year/ Semester	Course Name & Code	Course Outcome	Concerned Department
To equip the students to meet the requirement of corporate world and Industry standard. To engage in professional development and to pursue post graduate education in the fields of Information Technology and Computer Applications. To provide the students about computing principles and business practices in software solutions, outsourcing services, public and private sectors. Able to analyze and identify the customer requirements in multidisciplinary domains, create high level design and implement robust software applications using latest technological skills. Capable of adapting to new technologies and constantly upgrade their skills with an attitude towards independent and lifelong learning. Able to design and develop reliable software applications for social needs and excel in IT enabled services. Able to analyze and identify the customer requirements in multidisciplinary domains, create high level design and implement robust software applications using latest technological skills. Proficient in successfully designing innovative solutions for solving real life business problems and addressing business development issues with a passion for quality, competency and holistic approach. Perform professionally with social, cultural and ethical responsibility as an individual as well as in multifaceted teams with positive attitude.						
BCA	Computer Application	The ability to understand, analyze and develop computer programmes in the areas related to algorithms, system software, multimedia, web design, application program, database , graphics and networking for efficient design of computer-based systems of varying complexity.	First/ First	g and Problem Solving T	Creation of algorithms and flowcharts to solve simple programming problems. Students will be able to develop logics which will help them to create programs, applications in C. Learn the basic programming structure and environment. Students will be able to compare different programming approaches and programming tools. Writing small practical codes using structured and modular programming approaches will build confidence to make large commercial software. Problem solving approach and analytical ability will also enhance.	Computer science & Elex.

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				PC Software	Understand the basics of computer hardware and how software interacts with computer hardware. Understand the description and functions of Desktop icons like Desktop, my computer, Recycle Bin, Network Neighborhood, copying a files & folders, Screen saver, Windows Explorer. Understand how to work and use the application of Windows Accessories, Understand to apply the formulas of Ms-Excel how to make charts. How to prepare a presentation through Ms-Power-point.	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Mathematics – I	Understand the relationship between the derivative and the definite integral as expressed in both parts of the Fundamental Theorem of Calculus. Locate the x and y intercepts, any undefined points, and any asymptotes. Determine asymptotes for rational expressions (we will not go into these graphs in much detail) Apply the techniques from the previous section to graph a fourth degree polynomial or higher Determine if there is any symmetry to aid in the graphing process. Determine the point(s) of intersection of pairs of curves.	Maths
				ital Computer Organisat	Ability to understand basic structure of computer. Ability to perform computer arithmetic operation and understand control unit operations. Able to understand cache mapping techniques. Able to understand the concept of I/O organization. Able to be work in system engineering field.	CS & Elex

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Statistics – I	Making familiar with statistical tools which are relatively used in business. Imparting the ability to collect present, analyze and interpret data. Ability to predict trend values by using list square methods in regression.	Maths
				English Language	Describe the knowledge of Basic English Grammar and Tenses. Write down the Construction of Paragraph and Essay writing. Classify the Business Letters. Describe the Essential of and offer effective business letter. Identify the Job Application Letter. Write down the Bio-data. Describe the ligevancy of communication. Write down the format of office circular. Clarify the types of Advertisement in the business. Write down the guidelines in managing in E-mails.	Foundation
				Skill Enhancement		CS & Elex

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
			First/ Second	g and Problem Solving T	Ability to develop applications using the basic concepts. The course is designed to provide complete knowledge of C language. Also by learning the basic programming constructs they can easily switch over to any other language in future. Able to relate and apply the skills in solving real world problems.	Computer science & Electronics
				Introduction to Information System		
				Operating System	Learn the fundamentals of Operating Systems. Learn the mechanisms of OS to handle processes and threads and their communication. Learn the mechanisms involved in memory management in contemporary OS Gain knowledge on distributed operating system concepts that includes architecture, mutual exclusion algorithms, deadlock detection algorithms and agreement protocols Know the components and management aspects of concurrency management Learn programmatically to implement simple OS mechanisms.	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Mathematics – II	To understand Different indeterminate forms of limit. Calculate functional value in neighborhood of some point using expansions. To understand the behavior of curve in space. Continuity and Limits - Prove convergence and divergence of limits using the ϵ-δ definition. Differentiation - Identify and prove basic facts about derivatives and their properties. To understand the maximum and minimum behavior of a function of two variables.	Maths
				Digital Computer Organisation	Ability to understand basic structure of computer. Ability to perform computer arithmetic operation and understand control unit operations. Able to understand cache mapping techniques. Able to understand the concept of I/O organization. Able to be work in system engineering field.	CS & Elex
				Statistics – II	Making familiar with statistical tools which are relatively used in business. Imparting the ability to collect present, analyze and interpret data. Ability to predict trend values by using list square methods in regression.	Maths

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Hindi Language	Understand the basic concepts of Hindi language- Phonetics, standard grammar, advanced vocabulary Develop skills to communicate clearly, correctly and fluently in Hindi. Develop writing skills and demonstrate the ability to write meaningful applications, business letters, paragraphs and reports Appreciate the great literary works of Hindi. Develop individual perspective and demonstrate critical thinking skills, logical organization, and command over Hindi Understand current technology related to the communication field.	Foundation
				Skill Enhancement		

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
			Second/ Third	ented Programming Th	Able to use the characteristics of an object-oriented programming language in a program. Able to use the basic object-oriented design principles in computer problem solving. Able to program with advanced features of the C++ programming language. Able to use C++ classes for code reuse. Implement exception handling and templates. Develop applications using Console I/O and File I/O.	Computer science & Electronics
				Digital Computer Electronics	Have a thorough understanding of the fundamental concepts and techniques used in digital electronics. To understand and examine the structure of various number systems and its application in digital design. The ability to understand, analyze and design various combinational and sequential circuits. To develop skill to build, and troubleshoot digital circuits. Design, build and test analog and digital electronic systems for given specifications. Use common tools and environments to achieve project objectives.	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Data Structure Using C++	Able to access how the choices of data structure & algorithm methods impact the performance of program. Able to Solve problems based upon different data structure & also write programs. Choose an appropriate data structure for a particular problem. Able to implement the various data structures using the concept of C++.	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Mathematics – III	Student will be able to solve first order differential equations utilizing the standard techniques for separable, exact, linear, homogeneous, or Bernoulli cases. Student will be able to find the complete solution of a non homogeneous differential equation as a linear combination of the complementary function and a particular solution. Student will be introduced to the complete solution of a non homogeneous differential equation with constant coefficients by the method of undetermined coefficients. Student will be able to find the complete solution of a differential equation with constant coefficients by variation of parameters. Student will have a working knowledge of basic application problems described by second order linear differential equations with constant coefficients.	Maths

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Communication Skills	Develop and integrate knowledge, creativity, ethical practice, and Communication skills. Display competence in oral, written, and visual communication and utilize skills in cross-cultural communication. Understand the process of communication and its effect on giving and receiving information Apply effective communication skills in a variety of interpersonal settings Master current technology related to the communication field.Become aware of opportunities in the field of communication. Develop positive Interview techniques and group communication exchanges.	Foundation
				Skill Enhancement		

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
			Second/ Fourth	a Base Management Sys	Demonstrate the basic elements of a relational database management system. Identify data models for relevant problems. Design entity relationship and convert entity relationship diagrams into RDBMS and formulate SQL queries on the respect data. Apply normalization for the development of application software's. Design and implement a full real size database system.	Computer science & Electronics
				Network and Communi	Able to understand data and network and to learn the fundamental topics like data, information to the definition of communication and computer networks which enable seamless exchange of data between any two points in the world. Able to understand how data communication is performed over network. Able to understand the applications of data and network communication and their use in real world applications.	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				ital Computer Organisat	Demonstrate and perform computer arithmetic operations on integer and real numbers. Categorize memory organization and explain the function of each element of a memory hierarchy. Identify and compare different methods for computer I/O mechanisms. Apply knowledge of various computer codes like ASCII, BCD, EBCDIC, GREY etc. Ability to understand basic structure of computer, control unit operations, concept of cache mapping techniques and the concept of I/O organization. Master the binary and hexadecimal number systems including computer arithmetic, Be familiar with functional units of the processor such as the register, counter, flip-flop file and arithmetic-logical unit etc.	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Unix Operating System	Analyze the structure of OS and basic architectural components involved in OS design. Analyze and design the applications to run in parallel either using process or thread models of different OS. Analyze the various device and resource management techniques for timesharing and distributed systems. Understand the Mutual exclusion, Deadlock detection and agreement protocols of distributed operating system. Interpret the mechanisms adopted for file sharing in distributed applications. Conceptualize the components involved in designing a contemporary OS.	
				Mathematics – IV	To get basic knowledge about Circle, Cone, Parabola, Hyperbola, Ellipse etc. To understand the concepts & advance topics related to two & three dimensional geometry. To study the applications of conics. To study the application of Sphere, cone and cylinder. To study how to trace the curve.	Maths

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Environmental Awareness	Recognize the physical, chemical, and biological components of the earth's systems and how they function. Critically examine environmental issues and apply understanding from science, law and history to interact with the environment. Understand probabilistic aspects of human interactions with the environment which may cause environmental disaster Master core concepts and methods from ecological and physical sciences and their application in environmental problem solving. Master core concepts and methods from economic, political, and social analysis so as to design and evaluate environmental policies and laws. Understand the ethical, cross-cultural, and historical context of environmental issues and the links between human and natural systems. Understand the Disaster Management Techniques to solve environmental problems across local to global scales.	Foundation
				Skill Enhancement		

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
			Third/ Fifth	Introduction to JAVA	Knowledge of creating java programs that solve simple business problems. Knowledge of compile and execute java programs using class, object, constructors, destructors, inheritance, etc. Knowledge of creating and using of packages, multithreading, exception handling. Design and implement Applets programming and AWT.	Computer science & Electronics
				er Organisation and Arc	Explain the organization of basic computer, its design and the design of control unit. Demonstrate the working of central processing unit and RISC and CISC Architecture. Describe the operations and language of the register transfer, micro operations and input-output organization. Understand the organization of memory and memory management hardware. Elaborate advanced concepts of computer architecture, Parallel Processing, inter-process communication and synchronization.	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Software Engineering	Understanding how to work as an individual and as part of a multidisciplinary team to develop and deliver quality software. Demonstrating an understanding of and apply current theories, models, and techniques that provide a basis for the software lifecycle. Understanding methods and tools to design, implement, test, document, and maintain a software system. Communicating effectively and professionally both in writing and by means of presentations to both specialist and a general audience.	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				esigning and Web Tech	Knowledge of internet basics. Understanding methods and tools to design, implement, test web pages and develop web application. Understand the principles of creating an effective web page, including an in-depth consideration of information architecture. Become familiar with graphic design principles that relate to web design and learn how to implement these theories into practice. Develop skills in analyzing the usability of a web site. Understand how to plan and conduct user research related to web usability. Learn the language of the web: HTML and CSS. Learn techniques of responsive web design, including media queries. Develop skills in digital imaging (Adobe Photoshop). Be able to embed social media content into web pages.	
				Mathematics and Linea	Identify and construct linear transformations of a matrix. Characterize linear transformations as onto, one-to-one. Solve linear systems represented as linear transforms. Characterize a set of vectors and linear systems using the concept of linear independence.	Maths

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Entrepreneurship	The paper Entrepreneurship development provides students with cutting-edge knowledge and skills on how to successfully develop captivating products and services to solve challenging problems in a highly uncertain environment.On successful completion of this course, • The student should be well versed in the fundamental concepts of entrepreneurial skills in the context of both new ventures as well as in established organizations. • To expose fundamentals of entrepreneurs in elaborate manner. • Students master oral and visual presentation skills and establish a foundation of confidence in the skills necessary to cause others to act. • Students advance their skills in customer development, customer validation, competitive analysis, and iteration while utilizing design thinking and process tools to evaluate in real-world problems and projects. • Students identify and secure customers, stakeholders, and team members through	Foundation
				Skill Enhancement		

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
			Third/ Sixth	uter Graphics and Multi	To implement various algorithms to scan, convert the basic geometrical primitives, transformations, area filling, clipping. To describe the importance of viewing and projections. To define the fundamentals of animation, virtual reality and its related technologies. To understand a typical graphics pipeline. To design an application with the principles of developed understanding of technical aspect of multimedia systems. Understand various file formats for audio, video and text media. Develop various multimedia systems applicable in real time. Design interactive multimedia software. Apply various networking protocols for multimedia applications. To evaluate multimedia application for its optimum performance. Design and synthesize colour image processing and its real-world applications.	Computer science & Electronics

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				d Numerical Methods (	Recognize the error in the number generated by the solution. Compute solution of algebraic and transcendental equation by numerical methods like Bisection method and Newton Rapshon method. Apply method of interpolation and extrapolation for prediction. Recognize elements and variable in statistics and summarize qualitative and quantitative data. Calculate mean, median and mode for individual series. Outline properties of correlation and compute Karl Pearson's coefficient of correlation.	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				ocessor and Assembly L	The student will be able to analyze, specify, design, write and test assembly language programs of moderate complexity. The student will be able to select an appropriate 'architecture' or program design to apply to a particular situation. The student will be able to calculate the worst-case execution time of programs or parts of programs. Able to design and build, or to modify, software to maximise its run time memory or execution-time behaviour. The student will be able to characterise and predict the effects of the properties of the bus on the overall performance of a system.	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				es and Practices of Man	The objective of this paper is to provide an understanding for the graduate commerce student on management concepts to include planning, controlling, staffing, and training. Man power planning is also a important part of management. • To enable the students to learn Discuss and communicate the management evolution and how it will affect future managers. • Observe and evaluate the influence of historical forces on the current practice of management. • Identify and evaluate social responsibility and ethical issues involved in business situations how organizations adapt to an uncertain environment and identify techniques managers. • Use to influence and control the internal environment. Practice the process of management's four functions: planning, organizing, leading, and controlling. • Identify and properly use vocabularies within the field of management to articulate one's own position on a specific	Commerce
				Skill Enhancement		

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Project Work & Viva-Voce	This gives practical exposure in the Project work, knowledge which will equip the students in Research work. Able to implement practical solutions using the learned concepts. Develop the different types of software.	Computer science & Elex.

Programme Name :Management

To provide adequate basic understanding about Management Education among the students.
To prepare students to exploit opportunities being newly created in the Management Profession.
To train the students in communication skills effectively.
To develop appropriate skills in the students so as to make them competent and provide themselves self-employment.
To inculcate Entrepreneurial skills.
To work well in teams, including virtual settings.
To understand finance and other core business content.
To recognize and solve business problems in an ethical manner.
To communicate business information professionally.
To build the department as a centre of excellence for imparting high quality management education at the undergraduate level.
To contribute to creation of knowledge by encouraging faculty to engage in research.
To stimulate in students an interest in research and initiate them into research methodologies.
To make education accessible to students across borders of religion, geography, caste or gender.
To foster thinking minds that are sensitive to societal needs and issues thus making them good human beings and responsible members of the society.
To provide an environment that facilitates all-round development of the student personality.

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
BBA	Management	Manage and coordinate people, business processes, and business resources. Develop and implement components of a business plan. Communicate in a variety of domains, including writing, speaking, listening and reading, while respecting the impact of technology on effective communication. Students will learn to use data to engage in effective decision-making in a business. Demonstrate knowledge and application of prescribed ethical codes and behaviours in the workplace.	First/ First	Economics - I	Students gained knowledge about the concepts in economics and managerial economics. Students understood about the demand analysis and consumer behaviour. Students gained complete knowledge about the cost concepts and production function. Students had a theoretical knowledge about the Pricing methods. Students acquired knowledge about the concept of Market Structure in detail. Understand that economics is about the allocation of scarce resources, that scarcity forces choice, tradeoffs exist and that every choice has an opportunity cost. Demonstrate these concepts using a production possibility frontier diagram. List the determinants of the demand and supply for a good in a competitive market and explain how that demand and supply together determine equilibrium price.	Management

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Fundamentals of Management	Define management and explain how management differs according to level and whether a manager is a line manager or an enabling role. Briefly describe and contrast four models of management; rational goal, scientific, human relations, open systems. Describe and attain some elementary level of skills in the main management processes: planning, organizing, staffing, deciding, controlling and budgeting. Outline the notion of a management function and be able to name, briefly describe and appreciate the role of the four main management functions: marketing, production (including quality and other technical services), finance and personnel. Discuss and identify the implications of wider management issues such as managing technology, managing diversity, globalization and ethics.	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Managerial Skills	Understand what is meant by management and managerial effectiveness. Identify the roles which are fulfilled while working as a manager. Identify managerial activities that contribute to managerial effectiveness. Learn to manage conflict: understand and appropriately apply the skills of problem solving. Explore, understand, and lead, guided by the values of self-awareness, equity, social justice, inclusiveness, empowerment, and service.	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Basic Accounting	Develop the ability to use a basic accounting system to create (record, classify, and summarize) the data needed to solve a variety of business problems Develop the ability to use accounting concepts, principles, and frameworks to analyze and effectively communicate information to a variety of audiences. Develop and understand the nature and purpose of financial statements in relationship to decision making. Develop the ability to use the fundamental accounting equation to analyze the effect of business transactions on an organization's accounting records and financial statements.	Commerce
				Information Technology	To learn the usage of word processor and electronic spreadsheet. To understand the importance of DBMS and its applications in query language. To study the concept of EDI and its applications. To learn Internet Basics and realize the difference between Distributed Computing & Client / Server Computing. To understand its audit and its applications.	CS & Elex

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Hindi Language	Understand the basic concepts of Hindi language- Phonetics, standard grammar, advanced vocabulary Develop skills to communicate clearly, correctly and fluently in Hindi. Develop writing skills and demonstrate the ability to write meaningful applications, business letters, paragraphs and reports Appreciate the great literary works of Hindi. Develop individual perspective and demonstrate critical thinking skills, logical organization, and command over Hindi Understand current technology related to the communication field.	Foundation
				Skill Enhancement		Management

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
			First/ Second	Economics - II	Students will be able to explain the concepts of gross domestic product, inflation and unemployment, and how they are measured. Students will be able to explain the circular flow model and use the concepts of aggregate demand and aggregate supply to analyze the response of the economy to disturbances. Students will be able to describe the determinants of the demand for money, the supply of money and interest rates and the role of financial institutions in the economy. Students will be able to identify the causes of prosperity, growth, and economic change over time and explain the mechanisms through which these causes operate in the economy. Students will be able to describe and analyze the economy in quantitative terms. Students will be able to describe the contemporary banking and monetary system, and analyze the role of money, credit, and Federal Reserve monetary policy. Outline the role of comparative advantage in exchange. Describe the role of international trade and finance in domestic economic activitter thinking	Management

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Human Resource Management	Contribute to the development, implementation, and evaluation of employee recruitment, selection, and retention plans and processes. Administer and contribute to the design and evaluation of the performance management program. Develop, implement, and evaluate employee orientation, training, and development programs. Facilitate and support effective employee and labour relations in both non-union and union environments. Research and support the development and communication of the organization's total compensation plan. Collaborate with others, in the development, implementation, and evaluation of organizational and health and safety policies and practices. Research and analyze information needs and apply current and emerging information technologies to support the human resources function. Develop, implement, and evaluate organizational development strategies aimed at promoting organizational effectiveness.	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Business Communication	Explain how the discipline of communication contributes to the understanding of the human condition. Identify and strategically use communication theory and skill to improve leadership practice. Analyze the communication of world, national, and local leaders in multiple spheres and explicate the verbal and nonverbal behaviors that lead to success. Exhibit intercultural competence when interacting with those of different races, ethnicities, nationalities, and social classes, and encourage others to do the same. Think critically, creatively, and compassionately and use communication skills to individually and collaboratively solve problems.	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Financial Management	Describe the financial environment within which organisations must operate. Critically evaluate the financial objectives of various types of organisations and the respective requirements of stakeholders. Explain alternative sources of finance and investment opportunities and their suitability in particular circumstances. Assess the factors affecting investment decisions and opportunities presented to an Organisation and also understands capital budgeting Select and apply techniques in managing working capital. Analyse a company's performance and make appropriate recommendations.	
				agement Information Sy	Students gained knowledge on MIS and its support for planning, organizing and support for controlling. Students learnt about different concept of system. Gained knowledge on various element of computer and its accessories. Students gained knowledge on SDLC and corresponding professional course. Acquired knowledge on different support systems.	Computer science & Electronics

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				English Language	Describe the knowledge of Basic English Grammar and Tenses. Write down the Construction of Paragraph and Essay writing. Classify the Business Letters. Describe the Essential of and offer effective business letter. Identify the Job Application Letter. Write down the Bio-data. Describe the ligevancy of communication. Write down the format of office circular. Clarify the types of Advertisement in the business. Write down the guidelines in managing in E-mails.	Foundation
				Skill Enhancement		

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
			Second/ Third	Marketing Managemen	Identify core concepts of marketing and the role of marketing in business and society. Knowledge of social, legal, ethical and technological forces on marketing decision-making. Appreciation for the global nature of marketing and appropriate measures to operate effectively in international settings. Ability to develop marketing strategies based on product, price, place and promotion objectives. Ability to create an integrated marketing communications plan which includes promotional strategies and measures of effectiveness. Ability to communicate the unique marketing mixes and selling propositions for specific product offerings. Ability to construct written sales plans and a professional interactive oral sales presentation. Ability to formulate marketing strategies that incorporate psychological and sociological factors which influence consumers. Ability to collect, process, and analyze consumer data to make informed marketing decisions. Ability to analyze marketing problems and provide solutions based on a crt in successfully designing innovative	Management

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Organisational Behaviour	Students came to know the need, scope and theories of organisation. Students gained knowledge on various motivational techniques of employees. Students learned knowledge on work environment and leadership styles. Students acquired knowledge on group dynamics in an organisation. Students understood the climate and culture in an organization. Analyze the behavior of individuals and groups in organizations in Terms of the key factors that influence organizational behaviour. Assess the potential effects of organizational - level factors (such as structure, culture and change) on organizational behaviour. Critically evaluate the potential effects of important developments in The external environment (such as globalization and advances In technology) on organizational behaviour. Analyse organizational behavioural issues in the context of organizational behavior theories, models and concepts.	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Business Statistics	The ability to interpret statistical analysis tools commonly used in the workplace; The ability to critically evaluate a standard business report including the graphics, probability statements and resultant commentary; and, Estimate the mean and standard deviation of the marginal distribution of the response variable and use this information to inform a business decision, Construct an analysis of variance table to test the hypothesis, recognize the importance and value of statistical thinking, training, and approach to problem solving, on a diverse variety of disciplines; be familiar with a variety of examples where statistics helps accurately explain abstract or physical phenomena.	Maths

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Business Costing	Students Acquired Knowledge the Basic Concepts of Cost Accounting, Apply Cost Accounting Methods to Identify Profitable Products and Services. Determine the reorder point and safety stock for inventory systems. Design a continuous or periodic review inventory-control system. Analyze inventory costing and capacity. Identify and determine cost behavior. Identify cost-volume-profit relationships Identify and apply job costing and allocation of overhead. Identify and apply multi pool, multi driver costing method and activity-based costing.	Commerce

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Operations Management	Students will develop the fact-based reasoning skills when making strategic, tactical, and operational decisions. Students will demonstrate the ability to apply analytical tools to service operations and select appropriate production processes. Students gain an understanding and appreciation of the principles and applications relevant to the planning, design, and operations of manufacturing/service firms. To develop skills necessary to effectively analyze and synthesize the many inter-relationships inherent in complex socio-economic productive systems. understand how Enterprise Resource Planning and MRPII systems are used in managing operations.	Management

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Business Environment	Business Environment needs to be studied by analyzing the macro environmental factors in depth such as economic, political & legal, socio-cultural, technological and international environment. The study of economic environment includes economic systems, economic planning, government policies, role of public sector and development banks, economic reforms liberalization and its impact on business. Study of Political and legal environment is also significant for a business firm as changing laws and regulations can critically impact a business firm. In Socio-cultural environment, the importance of social institutions and systems, social values and attitudes is analyzed from the perspective of a business firm. Other important dimensions which are emerging in today's business environment are also studied in detail like emerging rural sector in India, Social Responsibility and Consumerism. The impact of International and Technological environment on a business firm is analyzed by understanding the importance of Mule organization.	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Skill Enhancement Event Management	Explain the complexity and wide -ranging scope, role and purposes served by international conferences /events and the key players involved in this industry. Discuss the possible future trends and developments in the international conference/event sector. Demonstrate a comprehensive knowledge of the details involved in planning and designing an international event / conference, including the management of resources, budgets and time. Discuss the economic, social, political and environmental effects of international conferences/events on a host destination. Analyse the role played by promotion, advertising, public relations and sponsorship in marketing international events Employ research skills in sourcing relevant information to support coursework. contribute to class discussion on topics relevant to the international conference and event sector Judge and apply professional and ethical standards applicable to the international conference and event sector.	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
			Third/ Fourth	Management Accounting	Students learnt how to use accounting to facilitate and align decisions made by owners, managers, and employees. How to Calculate and interpret variances for direct material, direct labor, manufacturing overhead. Discuss how the management by exception approach is applied to investigation of standard cost variances. Understand the process of cost allocation and Understand the process of cost allocation and apportionment in marginal and absorption costing.	Commerce

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				International Business	The Cultural Empathizer: Identify and evaluate the complexities of international business and globalization from home versus host-country, and regional, cultural perspectives. International Political Economist: Analyze the relationships between international business and the political, economic, legal and social policies of countries, regions and international institutions. Emerging Markets Analyst: Analyze current conditions in developing emerging markets, and evaluate present and future opportunities and risks for international business activities (The Opportunist). Global Strategist: Develop a framework to support successful decision-making in all relevant functions and activities of any international business or international operations of a domestic business within the competitively international environment.	Management

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Supply Chain Management	Students will be able to apply metrics in supply chains. Assessed by multiple-choice questions. Students will be able to define the principles of scheduling and planning in supply chain management. Students will be able to apply the principles of Strategic/Master planning of resource in supply chains. Students will be able to identify the principles of customer and supplier relationship management in supply chains. Students will be able to define the principles of quality and lean manufacturing.	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Operation Research	A basic understanding of quantitative techniques used to help in the management of business, industrial and organizational operations. Developed an approach to problem-solving that is both analytical and flexible. Recognize the importance of Operations Research; build an Operations Research model from real-life problems; understand Operations Research theories and models and their applications to a variety of scenarios. Specific knowledge: (a) Formulate a Linear Program (LP) or translate into standard form, and use the Simplex Method to solve. (b) Transportation problem, assignment problem and Game theory for solving optimization problems; (c) Formulation and solution of network problems using graph optimization algorithms.	Maths

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Indian Legal System for Business	Students will ultimately be assessed on their knowledge of the legal system and legal doctrine. Students will graduate with a broad knowledge of foundational and other core areas of the law, specialized knowledge in areas of interest, and experience with advanced study. Students will ultimately be assessed on the development of legal analysis, legal communication, and legal research. Students will graduate with the ability to analyze complex problems, find and deploy a variety of legal authorities, and communicate effectively in a variety of settings. Students will ultimately be assessed on their ability to demonstrate a commitment to professionalism, ethical behavior, service, and, as appropriate, leadership.	Management

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Entrepreneurship	Entrepreneurship and Innovation minors will be able to sell themselves and their ideas. Students master oral and visual presentation skills and establish a foundation of confidence in the skills necessary to cause others to act. Entrepreneurship and Innovation minors will be able to find problems worth solving. Students advance their skills in customer development, customer validation, competitive analysis, and iteration while utilizing design thinking and process tools to evaluate in real-world problems and projects. Entrepreneurship and Innovation minors will be able to mobilize people and resources. Students identify and secure customers, stakeholders, and team members through networks, primary customer research, and competitive and industry analyses in order to prioritize and pursue an initial target market in real-world projects. Entrepreneurship and Innovation minors will be able to create value. Students are able to create presentations and business plans that articulate and apply financial, operationat	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Skill Enhancement Rural Marketing	Explore the various facets of rural marketing and develop an insight into rural marketing regarding different concepts and basic practices in this area. Identify the challenges and opportunities in the field of rural marketing for the budding managers and also expose the students to the rural market. environment and the emerging challenges in the globalization of the economies. To acquaint the students with the appropriate concepts and techniques in the area of rural marketing. Apply adaptations to the rural marketing mix (4 A's) to meet the needs of rural consumers. Understand the concept and methodology for conducting the research in rural market.	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
			Third/ Fifth	Customer Relationship Management	Students have acquired knowledge on channels of communication and essentials of business letters. Students have gained knowledge on CRM and its approaches. Students have learnt knowledge on Banker customer relationship. Students have acquired knowledge on complaint redressal methods. Students have learnt knowledge on market segment and market research. analyze relationship theory and relationship economics from the point of view of the customer and the organisation. critically analyse an organisation's relational strategies with stakeholder groups that affect how well it meets customer needs evaluate CRM implementation strategies. Formulate and assess strategic, operational and tactical CRM decisions. plan and conduct an investigation on an aspect of CRM, and communicate findings in an appropriate format demonstrate an understanding of the theoretical foundations and main concepts of CRM evaluate traditional customer orientation strategies in the context of CRM	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Research Methodology	Students should understand a general definition of research design. Students should know why educational research is undertaken, and the audiences that profit from research studies. Students should be able to identify the overall process of designing a research study from its inception to its report. Students should be familiar with ethical issues in educational research, including those issues that arise in using quantitative and qualitative research. Students should know the primary characteristics of quantitative research and qualitative research. Students should be able to identify a research problem stated in a study. Students should be familiar with how to write a good introduction to an educational research study and the components that comprise such an introduction. Students should be familiar with conducting a literature review for a scholarly educational study: 1. The steps in the overall process. 2. The types of databases often searched. 3. The criteria for evaluating the quality of	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Indian Financial System	How to describe the context of banking: the financial system. Students able to explain the principles of banking. The purpose of Indian Financial system as a subject is to give a clear understanding and knowledge of financial system in the present scenario. Students should be able to interpret, understand and explain the results of applications of statistical methods, applied to analyses of financial, banking and insurance risk. Students will be able to describe the economic characteristics of risk mitigation and insurance.	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Project Management	Manage the scope, cost, timing, and quality of the project, at all times focused on project success as defined by project stakeholders. Align the project to the organization's strategic plans and business justification throughout its lifecycle. Identify project goals, constraints, deliverables, performance criteria, control needs, and resource requirements in consultation with stakeholders. Adapt projects in response to issues that arise internally and externally. Utilize technology tools for communication, collaboration, information management, and decision support. Practices interpersonal skills to manage the human resources of a project including organizing, managing and leading the project team, using effective strategies to influence others, manage conflict, and leads teams to successful project completion.	
				Skill Enhancement		

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Banking and Insurance	Students explain procedures and principles to follow in banking and insurance transactions. Students explain risk types to occur in the sector and hedging techniques Students apply the acquired knowledge regarding the field of banking and insurance to their studies Students have basic institutional and practical knowledge supported by text books including up-to-date information in the field of Banking and Insurance Students carry out financial analysis of banks and insurance companies, Students make a list of fundamental conceptual knowledge in the practical application of International Banking and Finance techniques.	Management

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Working Capital Management	Evaluate working capital management and their impact on the firm's profitability, liquidity, risk and operating flexibility. Evaluate the importance of effective working capital management and its role in meeting the firm's strategic objectives and its impact in value creation. Formulate appropriate working capital management policies to achieve corporate objectives. Apply corporate cash management, accounts receivable management, bank relations, and inventory management techniques to maximize the share holders' value. How to write a plan for a balanced integration of cash, credit and other short-term topics and policies.	
				Human Resource Development	On successful completion of this course the students should have the practical knowledge and he tactics in the marketing. Explain the importance of human resources and their effective management in organizations. Demonstrate a basic understanding of different tools used in forecasting and	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Industrial Relations	The fundamental concern of Industrial Relations as a field of study is with investigating the nature of the relationship that exists between an employer and his or her employees – or the employment relationship, as it is generally known. The main aim of this course is to introduce students to the theories, institutions and practices of Industrial Relations.	
				MARKETING SPECIALISATION		

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Advertising and Brand Management	Students have learned market segmentation and copy development. Gain knowledge on Media selection and Integrated programme. Acquired knowledge on implementing coordination and control and advertising agencies. Acquire knowledge on sales promotion techniques, channels and budgeting. Gain knowledge on socio ethic and social relevance of advertising. Examine advertising and its functions in relation to brand success, creative concepts and executions will contribute to brand success, Analyse advertising and branding techniques and apply them to a variety of different issues, Work effectively in teams to analyse and prepare presentations on advertising and brand management issues.	Management

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Sales and Distribution Management	Evaluate the viability of marketing a product or service in an international market or markets. Ability to communicate the unique marketing mixes and selling propositions for specific product offerings. Ability to construct written sales plans and a professional interactive oral sales presentation. Ability to formulate marketing strategies that incorporate psychological and sociological factors which influence consumers. Ability to collect, process, and analyze consumer data to make informed marketing decisions.	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
			Third/ Sixth	Total Quality Management	Ability to operate the main concepts, laws, and techniques of total quality management. Ability to operate the methodologies, methods, and tools of lean manufacturing system. Design and perform experiments to determine critical areas of product development and analyze the results and form conclusions for quality improvement. Apply Lean Manufacturing tools and Six Sigma methodology to address the identification of waste from a process and to address problems process quality and consistency. Lead or work with quality assurance professionals to assess, evaluate and improve quality planning procedures to ensure quality production using accepted quality assurance techniques, including Failure Mode and Effect Analyses (FMEA), Production Part Approval Process (PPAP), Advanced Product Quality Planning (APQP). Apply the principles and techniques of Total Quality Management in improving quality practices within an industrial or service organization.	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Retail Management	Identify and understand basic theories, principles, practices and terminology related to each functional area of business. Perform basic functions appropriate to each functional area of business. Communicate effectively using oral, written and non-verbal techniques, to include the use of technology, in the gathering and presentation of information. Understand the ways that retailers use marketing tools and techniques to interact with their customers. Explain the central role of retail in industrialized societies, and the impact of key market/retail trends upon this sector in the local and global contexts. Describe the actions taken to acquire and retain customers; produce goods and services.	
				Strategic Management	Analyze strategic macro environmental issues. Analyze industry factors, and identify their impact on profitability and strategic positioning. Assess organizational performance. Identify strategic capabilities and gaps. Assess and evaluate SBU strategies. Analyze and implement strategy at the single business unit level.	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Business Ethics	to acquire a basic and clear understanding of philosophical ethics to understand the principles of moral decision –making in global business to identify the trade-offs that face an ethical manager to understand the concept of corporate social responsibility to understand how competitive advantage maps on to corporate social responsibility to acquire ethical frameworks, so as to attack moral problems critically and comprehensively to get experience in presenting and evaluating arguments in both oral and written formats to examine and discuss competing positions on a range of issues facing business and society.	
				Skill Enhancement		
				FINANCE SPECIALISATION		
				t Banking and Financial	To examine Financial Services management as an important and contemporary area of financial management To understand the various financial services and their future To determine the most suitable financial service, given the situations and contingencies.	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				International Finance	Identify the reasons for international trade. Describe the importance of balance of trade and balance of payments to the development of macroeconomic policy. To have a discussion and explain in detail financial instruments such as options, futures, swaps and other derivative securities.	
				HUMAN RESOURCE MANAGEMENT SPECIALISATION		
				erformance Manageme	Describe the nature of performance management and outline the core objectives of performance management Outline the performance management cycle and identify and explain the key stages of this cycle Differentiate between performance management and performance appraisal Identify the different performance appraisal techniques that can be used by organizations Evaluate the advantages and disadvantages of different performance appraisal techniques evaluating employee performance, characteristics and/or potential, – with a view to assisting decisions in a wide range of areas such as pay, promotion, employee development and motivation.	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Leadership skills and management	Develop critical and reflective thinking abilities Exhibit responsible decision-making and personal accountability Appreciate creative expression and aesthetics Exhibit the ability to work effectively with those different from themselves Demonstrate a commitment to social justice Demonstrate an understanding of group dynamics and effective teamwork Develop a range of leadership skills and abilities such as effectively leading change, resolving conflict, and motivating others.	
				MARKETING SPECIALISATION		

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Marketing of Services	By completing this course, students will: Appreciate the challenges facing the services marketing in traditional commercial marketing, e-marketing and non commercial environments; Appreciate the difference between marketing physical products and intangible services, including dealing with the extended services marketing mix, and the four unique traits of services marketing; Recognize the challenges faced in services delivery as outlined in the services gap model; Synthesize and relate theory from a range of academic sources to services marketing conceptual frameworks. Consider the key elements underpinning the design, planning and implementation of services marketing plans and strategies.	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Consumer Behaviour	Identify and explain factors which influence consumer behavior. Demonstrate how knowledge of consumer behavior can be applied to marketing. Display critical thinking and problem solving skills. Gain, evaluate and synthesize information and existing knowledge from a number of sources and experiences. In a team, work effectively to prepare a professional, logical and coherent report on consumer behavior issues within a specific context. Deliver an oral presentation in a professional and engaging manner.	
				roject Work & Viva-Voc	This gives practical exposure in the Project work, knowledge which will equip the students in Research work.The aim of the Project work is to acquire practical knowledge on the implementation of the Finance, HR & Marketing studied.Students gained knowledge on introduction about project. Acquired knowledge to review the literature. Students gained about conceptual framework. Students learnt about applying various statistical tools. Students learnt to identify the findings and suggestions for the topic.	
Programme name: B.Ed.						

SESSION 2018-2019						
Programme	Discipline	Programme Specific Outcome	Class Year/ Semester	Course Name & Code	Course Outcome	Concerned Department

Programme outcome:

- Be empowered in subject content and pedagogy
- To develop an understanding of the contemporary Indian Society, with special reference to education.
- to be able to interact with children from diverse socio economic and diverse back grounds. -to be able to use learner centred teaching methods as such and with modification in future.
- to develop an understanding of paradigm shift in conceptualizing disciplinary knowledge in school curriculum, -to identify the challenging and overcoming gender inequalities in school, classroom, curricula, textbook, social institutions, etc.
- to create sensitivity about language diversity in classroom and its role in teaching-learning process - to enable student-teachers to acquire necessary competencies for organizing learning experiences.
- to develop competencies among student-teachers to select and use appropriate assessment strategies for facilitating learning.
- to engage student-teachers with self, child, community and school to establish close connections between different curricular areas.
- to enable student-teachers to integrate and apply ICT in facilitating teaching-learning process and in school management, - to systematize experiences and strengthening the professional competencies of student teachers.
- to provide first-hand experience of all the school activities.

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
B.Ed.	Education	• Understand basic concepts and ideas of educational theory. • Build understanding and perspective on the nature of the learner, diversity and learning. • Comprehend the role of the systems of governance and structural – functional provisions that support school education. • Develop understanding about teaching, pedagogy, school management and community involvement. • Build skills and abilities of communication, reflection, art, aesthetics, theatre, self expression and ICT.	First/ First	Childhood & growing up	The subject enable the student teachers to Describe how young children develop in each developmental domain; Analyse the implications of understanding human development for teachers. Explain developmental characteristics (behaviors and skill development) of children between 0 to 18 years of age. Identify the strategies for helping children's social and emotional development. Describe socialization of the child focusing on the interrelationship of family, school, and community.	Education

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Education in India – status , problems and issues	The subject enable the student teachers to Develop an understanding of the evaluation of education Indian society. Acquaint with existing educational policies and commissions in India. Understand changes of educational system in M.P.(India). Identify the role of education in national development. Analyse the challenges in Indian education and the role of teacher in the changing scenario.	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Language across the curriculum part I	• The Course Language is the medium for comprehending ideas, for reflection and thinking, as well as for expression and communication. • Enhancing one's facility in the language of instruction. • visualized as a range of primarily text-based language activities, which strengthened the ability to 'read', 'think', ‘discuss and communicate' as well as to 'write' in the language of instruction. • Student teachers began the programme with different levels of language ability; hence group work that supports different levels of learning is envisaged as a central feature of this course	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				culum Development & s	The subject enable the student teachers to The subject enable the student teachers to – Identify philosophical, sociological and psychological issues that need to be considered in framing a curriculum. Describe approaches to curriculum development and design. Recognize factors which contribute to effective teaching and learning in your own practice. Select appropriate strategies in changing a curriculum for your profession and apply the process of Curriculum Development. Enhance skill of Evaluate Curricula.	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Enhancing professional capacities courses (EPCC) Reading and Reflecting on Text	The subject enable the student teachers to • Reflect upon current level of literacy. • Basic skills required to be active readers in control of own comprehension. • Basic skills required to be independent writers, understanding adequate intent, audience and organization of the content. • Prepare self to facilitate good reading • Recreational tools rather than a course task.	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
			First/ Second	Learning and Teaching	The subject enable the student teachers to • Develop an understanding about differential learning needs of the learners with regard to abilities, learning styles, socio-cultural differences, language, and learning difficulties. • Develop awareness of the different contexts of learning. • Reflect on their own implicit understanding of the nature and kinds of learning. • gain an understanding of different theoretical perspectives of learning including the constructivist perspective. • develop understanding about the concept of teaching from various perspectives.	
				Pedagogy Course – Part I		

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Hindi	The subject enable the student teachers to • Understand natural language and its various characteristics (properties). • Gain insight into general theories of language acquisition and language learning. • Develop competencies for designing unit and lesson plans, as well as tools of evaluation for Hindi. • Understand techniques and methods of teaching Hindi and develop familiarity with the various textual items like prose, poetry, short stories, etc. • Gain awareness as well as skills to make use of various audio visual aids in the classroom, gain insight to develop the various receptive as well as productive skills in Hindi and develop skills to evaluate learning outcome through different types of tests.	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				English	The subject enable the student teachers to • Understand natural language and its various characteristics (properties). • Gain insight into general theories of language acquisition and language learning. • Develop competencies for designing unit and lesson plans, as well as tools of evaluation for English. • Understand techniques and methods of teaching English and develop familiarity with the various textual items like prose, poetry, short stories, etc. • Gain awareness as well as skills to make use of various audio visual aids in the classroom, gain insight to develop the various receptive as well as productive skills in English and develop skills to evaluate learning outcome through different types of tests	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Social Science	The subject enable the student teachers to • Explain the concept, nature and scope of social science. • knowledge of aims and instructional objectives of social sciences • Develop competencies for designing unit and lesson plans, as well as tools of evaluation for social science teaching. • Demonstrate and apply skills to select and use different methods of teaching social science teaching. • Develop skills in preparation and use of support materials for effective social science	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Biological Science	The subject enable the student teachers to • Understand the nature, scope & importance of Biological Sciences and get acquainted with ancient as well as modern developments in the field of Bio-Sciences. • Understand the Aims, Objectives of teaching Bio-Science and state the objectives in behavioral terms • Get exposed to preparing Resource Unit, Unit Plan & Lesson Plans. • introduced to various methods, approaches & models of teaching Biological Science and implement them in their teaching practice. • Plan & execute various curricular & co-curricular activities related to teaching of Bio-Science	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Mathematics	The subject enable the student teachers to • Explain the nature of Mathematics and its historical development with contribution of Mathematicians. • Describe the aims and objectives of teaching Mathematics at school level. • Demonstrate and apply skills to select and use different methods of teaching Mathematics. • Demonstrate competencies of planning for teaching Mathematics, organizing laboratory facilities and equipment designing pupil centered teaching learning experiences. • Demonstrate skills to design and use various evaluation tools to measure learner achievement in Mathematics.	
				Pedagogy Course – Part II		

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				History / Civics	The subject enable the student teachers to • Understand the nature, scope & importance of Biological Sciences and get acquainted with ancient as well as modern developments in the field of Bio-Sciences. • Understand the Aims, Objectives of teaching Bio-Science and state the objectives in behavioral terms • Get exposed to preparing Resource Unit, Unit Plan & Lesson Plans. • introduced to various methods, approaches & models of teaching Biological Science and implement them in their teaching practice. • Plan & execute various curricular & co-curricular activities related to teaching of Bio-Science	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Economics/ Geography	The subject enable the student teachers to • knowledge of aims and instructional objectives of geography and economics • Develop competencies for designing unit and lesson plans, as well as tools of evaluation for geography and economics teaching. • Demonstrate and apply skills to select and use different methods of teaching geography and economics teaching. • Develop skills in preparation and use of support materials for effective geography and economics	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Physical science	The subject enable the student teachers to • Explain the role of physical science science in day to day life and its relevance to modern society. • Describe the aims and objectives of teaching physical science at school level. • Demonstrate and apply skills to select and use different methods of teaching the content of physical sciences. • Demonstrate competencies of planning for teaching sciences, organizing laboratory facilities and equipment designing pupil centered teaching learning experiences. • Use a variety of teaching skills while planning and conducting physical science lessons and use their understanding to support the responsible acquisition and application of scientific and technological knowledge to the mutual benefit of self, society, and the environment	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				ge Across The Curricular	• Student teachers were developed a taste and abilities in reading and making meaning of different kinds of texts. • They also learnt to engage with ideas and appreciate that different kinds of writing are used to communicate these ideas in different contexts. • Overall, areas of language proficiency which are emphasized are those that will lay a foundation for their becoming self-learners, reflective and expressive teachers, and collaborative professionals.	
				pacities courses (EPCC)D	The subject enable the student teachers to • Exhibit Basic understanding in art appreciation, art expression and art education. • The adaptive strategies of artistic expression. • Enhancing art learning	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
			Second/ Third	dagogy of a School Subj	• Teacher trainees to respond to a variety of Maxims of Teaching. • Teacher trainees to learn and assimilate new teaching skills under controlled conditions. • Teacher trainees to master a number of teaching skills. • Teacher trainees to gain confidence in teaching. • Enhance communication and classroom management skill.	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				School Internship	• Develop an ability to substantiate perspectives and theoretical frameworks studied with field based experiences that are provided. • Understand creative ways of tracking students' progress. • Develop a broad repertoire of perspectives, professional capacities, teacher dispositions, sensibilities and skills. • Develop an ability to cater to diverse needs of learners in schools. • Experience and understand the real world of teaching with the help of systematic supervisory support and feedback. • Develop the ability to write a reflective journal that would facilitate to consolidate and reflect on teaching experience.	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				cities courses (EPCC)Edu	The subject enable the student teachers to • Develop the skills of performing Psychology Practical. • Develop the skills of writing Psychology Practical. • Train the students in handling different psychological Instruments and Tools. • Acquaint with different terminology of practical. • Develop ability of Administration, Scoring and Interpretation of various Psychological tests.	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
			Second/ Fourth	ender School and Socie	• Acquaint the student teachers with the concept of gendered roles in society and their challenges. • Develop basic understanding and familiarity with key concepts-gender, gender bias, gender stereotype, empowerment, gender parity, equity and equality, patriarchy and feminism and transgender. • Understand the influence of social institutions (family, caste, class, religion, region,) on inclusion and gender identity. • Critically appraise the role of media in reinforcing inclusion and gender roles in the popular culture and at school and appreciate the role of NGOs and Government organizations in sensitizing society towards inclusion and gender parity. • student teachers to develop abilities to handle notion of gender and Sexuality	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				cational Technology and	The subject enable the student teachers to • Develop an understanding of the concept of ICT • Practice safe and ethical ways of using ICT. • Use of ICT in Teaching Learning, Administration, Evaluation and Research. • Design, develop and use ICT based learning resources and develop an understanding of the concept of Open Education Resources and Creative Commons in education. • Evaluate ICT based learning resources and adopt mobile learning, open learning and social learning in the classroom.	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				eating and Inclusive Sch	The subject enable the student teachers to • Get sensitized to and able to appreciate the special needs of Individuals with disability • Familiar with the concept of Inclusive Education with special reference to Indian Context. • Understand the nature and needs of different categories of disabled children and understand the National Policy, programme and acts with respect to the disabled and analyze it critically. • Understand the concept of main streaming, Special Education and Inclusion and examine the status of inclusive Education in India critically. • Analyze the role of parents, teachers (Special Schools and Regular / General Schools), community, Peers, Principals, etc. and comprehend and apply the special techniques of teaching the disabled and evaluating &critically think on issues of special Education and inclusive Education.	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				capacities courses (EPC(	The subject enable the student teachers to • Develop understanding about him / herself. • Develop the inner self and the professional identity as a teacher. • Develop sensibility, dispositions and skills. • Develop a holistic and integrated understanding of human self and personality. • identify factors affecting self-concept.	
				PCC)understanding of I(	• Develop skill in handling computer and using word documents. • Develop skill in computation, analysis and interpretation of data by using Excel Spread sheets. • Understand the Educational implications of Power Point Presentation and its use in classroom context. • Understand the applications of Information Technology in the field of teacher education programme and training.	
				SPECIATION (ANY ONE)		

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				alth and Physical Educat	The subject enable the student teachers to • Understand the concept of holistic health, its various dimensions and determinants. • Develop positive attitude towards health physical education and yoga as individual. • 3 sensitize, motivate and help them to acquire the skills for physical fitness, learn correct postural habits and activities for its development. • create interest for the practice of yogasanas and meditations • Understand various policies and programmes related to health, physical education and yoga.	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				nce and Counselling in S	The subject enable the student teachers to • Understand the principles, scope and need of guidance and counselling in schools • Acquaint with nature of different problems faced by children in context of learning and development. • Understand the acquisition and process of learning in children with special needs. • Acquaint them with learning disabilities of children and its remedies. • 5.Qualities required for a good counselor.	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				Environmental Educatio	The subject enable the student teachers to • Understand the concept, significance, scope and terminologies, objectives and programmes of environmental education. • Develop awareness about the various types of pollution, ecological imbalances and life and contributions of environmental activities. • Interpret the environmental legislations in conservation and protection of the environment. • Understand the role of governmental and non-governmental agencies in environmental education. • Apply the methods of teaching and evaluation in environmental education.	

SESSION 2018-2019						
Programme	**Discipline**	**Programme Specific Outcome**	**Class Year/ Semester**	**Course Name & Code**	**Course Outcome**	**Concerned Department**
				roject Work & Internshi	• Practical exposure in the Project work, make the students get equipped with the knowledge of Research work. • Familiarize the student teacher with the concept and scope of Project. • Develop awareness for the educational and social problems among student teacher.	
				Comprehensive Viva	• Students were able to face interview at academic and professional level.	