

**M.S. RAMAIAH COLLEGE OF ARTS,SCIENCE AND COMMERCE**

**COURSE OUTCOMES OF BCOM PROGRAM (NEP)**

<b>Id</b>	<b>Program</b>	<b>CourseCode</b>	<b>CourseName</b>	<b>COCode</b>	<b>CO</b>
5260	B.COM	BCOM1.1 (NEP)	FINANCIAL ACCOUNTING	CO3	Understand in details with application, if applicable, THEORETICAL FRAMEWORK OF FINANCIAL ACCOUNTING
5260	B.COM	BCOM1.1		CO4	Identify in details with examples SINGLE ENTRY TO DOUBLE ENTRY
5260	B.COM	BCOM1.1		CO5	Learn in details with examples DEPARTMENTAL ACCOUNTS
5260	B.COM	BCOM1.1		CO1	Write down in details with application, if applicable, CONSIGNMENT
5260	B.COM	BCOM1.1		CO2	Deliberate in details with examples BRANCH ACCOUNTS
5260	B.COM	BCOM1.2 (NEP)	MANAGEMENT PRINCIPLES AND APPLICATIONS	CO1	Deliberate in depth BASICS OF MANAGEMENT
5260	B.COM	BCOM1.2		CO2	Learn in details with application, if applicable, PLANNING
5260	B.COM	BCOM1.2		CO3	Deliberate the characteristics of ORAGANIZING
5260	B.COM	BCOM1.2		CO4	Learn in details with application, if applicable, STAFFING AND LEADERSHIP
5260	B.COM	BCOM1.2		CO5	Identify in depth CONTROLLING AND LEADERSHIP
5260	B.COM	BCOM1.3 (NEP)	PRINCIPLES OF MARKETING	CO1	Learn the classification and characteristics of introduction to MARKETING
5260	B.COM	BCOM1.3		CO2	Specify in details with application, if applicable, CONSUMER BEHAVIOUR AND MARKET SEGMENTATION
5260	B.COM	BCOM1.3		CO3	Understand the characteristics of PRODUCT AND PRICING
5260	B.COM	BCOM1.3		CO4	Identify in depth introduction to PROMOTION AND DISTRIBUTION
5260	B.COM	BCOM1.3		CO5	Identify in details with examples RECENT DEVELOPMENTS IN MARKETING
5260	B.COM	BCOM2.1 (NEP)	ADVANCED FINANCIAL ACCOUNTING	CO2	UNIT 2 Details with practical sums of HIRE PURCHASE
5260	B.COM	BCOM2.1		CO3	UNIT 3 practical sums on DEPARTMENTAL ACCOUNTS
5260	B.COM	BCOM2.1		CO4	UNIT 4 practical sums on BRANCH ACCOUNTS
5260	B.COM	BCOM2.1		CO5	UNIT 5 practical sums on SINGLE ENTRY INTO DOUBLE ENTRY BOOK KEEPING
5260	B.COM	BCOM2.1		CO1	UNIT 1 Details with examples of INSURANCE CLAIMS OF CLOSING STOCK
5260	B.COM	BCOM2.2 (NEP)	BUSINESS MATHEMATICS	CO1	UNIT 1 to understand the concepts of NUMBER SYSTEM, INDICES AND ALGORITHMS
5260	B.COM	BCOM2.2		CO2	UNIT 2 to understand the details of THEORY OF EQUATIONS
5260	B.COM	BCOM2.2		CO3	UNIT 3 to understand the details of PROGRESSIONS
5260	B.COM	BCOM2.2		CO4	UNIT 4 to understand the elements of FINANCIAL MATHEMATICS
5260	B.COM	BCOM2.2		CO5	UNIT 5 to understand the MATRICES AND DETERMINATNTS

5260	B.COM	BCOM2.2 (NEP)	CORPORATE ADMINISTRATION	CO2	TO UNDERSTAND ABOUT COMPANIES
5260	B.COM	BCOM2.2		CO4	Write down in depth OF FORMATION OF COMPANIES
5260	B.COM	BCOM2.2		CO5	Identify in depth ABOUT COMPANY ADMINISTRATION
5260	B.COM	BCOM2.2		CO3	Write down in depth ABOUT CORPORATE MEETINGS
5260	B.COM	BCOM2.2		CO1	Write down in details with application, if applicable, WINDING UP OF COMPANIES
5260	B.COM	BCOM2.3 (NEP)	LAW AND PRACTICES OF BANKING	CO1	Specify the characteristics of INTRODUCTION TO BANKING
5260	B.COM	BCOM2.3		CO2	Identify the details of PAYING AND COLLECTING BANKER
5260	B.COM	BCOM2.3		CO3	Write down in details with application, if applicable, CUSTOMER AND ACCOUNT HOLDERS
5260	B.COM	BCOM2.3		CO4	Write down in depth ABOUT NEGOTIABLE INSTRUMENTS
5260	B.COM	BCOM2.3		CO5	Specify in details with application, if applicable, RECENT DEVELOPMENTS IN BANKING
5260	B.COM	BCOM3.1	CORPORATE ACCOUNTING	CO1	Learn in details with examples UNDERWRITING OF SHARES
5260	B.COM	BCOM3.1		CO2	Specify in depth of REDEMPTION OF PREFERENCE SHARES
5260	B.COM	BCOM3.1		CO3	Specify in depth of GOODWILL
5260	B.COM	BCOM3.1		CO4	Identify the characteristics of VALUATION OF SHARES
5260	B.COM	BCOM3.1		CO5	Learn in depth COMPANY FINAL ACCOUNTS
5260	B.COM	BCOM3.2	COST ACCOUNTING	CO1	Deliberate the details of introduction to cost accounting
5260	B.COM	BCOM3.2		CO2	Learn in details with application, if applicable, MATERIAL COST CONTROL
5260	B.COM	BCOM3.2		CO3	Specify the details of RECONCILIATION OF COST AND FINANCIAL ACCOUNTS
5260	B.COM	BCOM3.2		CO4	Specify in details with examples LABOUR COST CONTROL
5260	B.COM	BCOM3.2		CO5	Understand in depth OVERHEAD COST CONTROL
5260	B.COM	BCOM3.3	BUSINESS STATISTICS	CO1	Identify in details with application, if applicable, TABULATION
5260	B.COM	BCOM3.3		CO2	Identify in details with examples UNIT 2 MEASURES OF CENTRAL TENDENCY
5260	B.COM	BCOM3.3		CO3	Specify the details of UNIT 3 MEASURES OF DISPERSION
5260	B.COM	BCOM3.3		CO4	Identify in details with examples UNIT 4 CORRELATION AND REGRESSION
5260	B.COM	BCOM3.3		CO5	Write down in details with examples UNIT 5 PROBABILITY
5260	B.COM	BCOM4.1		CO1	Learn the classification and characteristics of REDEMPTION OF PREFERENCE SHARES
5260	B.COM	BCOM4.1		CO2	Specify the characteristics of MERGERS AND ACQUISITION OF COMPANIES

5260	B.COM	BCOM4.1	ADVANCED CORPORATE ACCOUNTING	CO3	Learn in details with examples INTERNAL RECONSTRUCTION
5260	B.COM	BCOM4.1		CO4	Identify in details with examples LIQUIDATION OF COMPANIES
5260	B.COM	BCOM4.1		CO5	Deliberate the details of RECENT DEVELOPMENTS IN ACCOUNTING
5260	B.COM	BCOM4.2		CO1	Specify the characteristics of CONTRACT LAWS
5260	B.COM	BCOM4.2		CO2	Identify the characteristics of COMPETITION AND CONSUMER LAWS
5260	B.COM	BCOM4.2	BUSINESS REGULATIONS	CO5	Learn the classification and characteristics of ECONOMIC LAWS
5260	B.COM	BCOM4.2		CO3	Specify in details with examples ENVIRONMENTAL LAWS
5260	B.COM	BCOM4.2		CO4	Specify in depth INTRODUCTION TO BUSINESS LAWS
5260	B.COM	BCOM4.3		CO1	Specify in details with application, if applicable, LABOUR COST
5260	B.COM	BCOM4.3	COSTING METHODS AND TECHNIQUES	CO2	Specify the classification and characteristics of CONTRACT COSTING
5260	B.COM	BCOM4.3		CO3	Understand in details with examples Presentation of OPERATING COSTING
5260	B.COM	BCOM4.3		CO4	Learn in depth Accounts of Groups: PROCESS COSTING
5260	B.COM	BCOM4.3		CO5	Write down the classification and characteristics of REPORTS IN TALLY:
5260	B.COM	BCOM5.1		GOODS AND SERVICE TAX	CO1
5260	B.COM	BCOM5.1	CO2		Understand in depth goods and service tax act
5260	B.COM	BCOM5.1	CO3		Deliberate the characteristics of procedure and levy under goods and service tax
5260	B.COM	BCOM5.1	CO4		Understand in depth assessment and returns
5260	B.COM	BCOM5.1	CO5		Learn in details with examples GST and technology
5260	B.COM	BCOM5.2	INCOME TAX-I	CO1	Understand and compute different types of Residential status of individual
5260	B.COM	BCOM5.2		CO2	Understand the classification and characteristics of Computation of taxable income from salary
5260	B.COM	BCOM5.2		CO3	Understand the characteristics of Computation of taxable income from House property
5260	B.COM	BCOM5.2		CO4	Understand the concept of Capital and Revenue under Income tax law
5260	B.COM	BCOM5.3	AUDITING AND CORPORATE GOVERNANCE	CO1	Understand in details with examples INTRODUCTION TO AUDITING
5260	B.COM	BCOM5.3		CO2	Learn the characteristics of IINTERNAL CONTROL
5260	B.COM	BCOM5.3		CO3	Specify in depth VOUCHING
5260	B.COM	BCOM5.3		CO4	Specify the characteristics of VERIFICATION AND VALUATION OF ASSETS AND LIABILITIES
5260	B.COM	BCOM5.3		CO5	Identify in details with examples AUDIT OF LIMITED COMPANIES AND OTHERS

5260	B.COM	BCOM5.4	ADVANCED ACCOUNTING	CO1	Identify in details with examples UNIT 1: ACCOUNTS OF BANKING COMPANIES
5260	B.COM	BCOM5.4		CO2	Understand in details with application, if applicable, UNIT 2: ACCOUNTS OF INSURANCE COMPANIES
5260	B.COM	BCOM5.4		CO3	Write down in depth UNIT 3: ESOP
5260	B.COM	BCOM5.4		CO4	Understand the details of UNIT 4: FARM ACCOUNTING
5260	B.COM	BCOM5.4		CO5	Write down the characteristics of UNIT 5: INVESTMENT ACCOUNTING
5260	B.COM	BCOM5.5	FINANCIAL MANAGEMENT	CO1	Identify in details with examples UNIT 1: TOOLS OF FINANCE
5260	B.COM	BCOM5.5		CO2	Understand in details with application, if applicable, UNIT 2: VALUE BASED MANAGEMENT
5260	B.COM	BCOM5.5		CO3	Write down in depth UNIT 3: CORPORATE RESTRUTCTURING-1
5260	B.COM	BCOM5.5		CO4	Understand the details of UNIT 4: CORPORATE RESTRUTCTURING-1
5260	B.COM	BCOM5.5		CO5	Write down the characteristics of UNIT 5: CORPORATE VALUATION
5260	B.COM	BCOM5.6	FINANCIAL SERVICES	CO1	Understand in details with application, if applicable, UNIT 1: OVERVIEW OF FINANCIAL SERVICES
5260	B.COM	BCOM5.6		CO2	Write down in depth UNIT 2: FUND BASED SERVICES
5260	B.COM	BCOM5.6		CO3	Understand the details of UNIT 3: FUND BASED SERVICES -2
5260	B.COM	BCOM5.6		CO4	Write down the characteristics of UNIT 4: FEES BASED SERVICES-1
5260	B.COM	BCOM5.6		CO5	Write down the characteristics of UNIT 5: FEES BASED SERVICES-2
5260	B.COM	BCOM6.1	INCOME TAX-II	CO1	Understand in depth UNIT 1 : PROFITS AND GAINS OF BUSINESS AND PROFESSION
5260	B.COM	BCOM6.1		CO2	Specify the classification and characteristics of UNIT 2 : CAPITAL GAINS
5260	B.COM	BCOM6.1		CO3	Learn in details with examples UNIT 3 : INCOME FROM OTHER SOURCES
5260	B.COM	BCOM6.1		CO4	Specify the details of UNIT 4 : DEDUCTIONS TO GTI
5260	B.COM	BCOM6.1		CO5	Write down in details with examples UNIT 5 : SET OFF AND CARRYFORWARD OF LOSSES
5260	B.COM	BCOM6.2	IND AS AND IFRS	CO1	Write down in depth ACC STDS
5260	B.COM	BCOM6.2		CO5	Understand the details of FINANCIAL STATEMENTS
5260	B.COM	BCOM6.2		CO2	Understand the details of PROVISIONS UNDER IND AS
5260	B.COM	BCOM6.2		CO3	Write down in depth OF PROVISIONS UNDER IND AS -2
5260	B.COM	BCOM6.2		CO4	Learn in depth OF CONSOLIDATED FINANCIAL STATEMENTS
5260	B.COM	BCOM6.3		CO2	Specify the characteristics OF INTRODUCTION TO MGT ACC.
5260	B.COM	BCOM6.3		CO3	Identify the characteristics of RATIO ANALYSIS

5260	B.COM	BCOM6.3	MANAGEMENT ACCOUNTING	CO4	Learn the classification and characteristics of CASHFLOW ANALYSIS
5260	B.COM	BCOM6.3		CO5	Specify in details with examples OF MARGINAL COSTING
5260	B.COM	BCOM6.3		CO1	Specify in depth OF BUDGETORY CONTROL
5260	B.COM	BCOM6.4	INTERNATIONAL FINANCE	CO1	Deliberate the classification and characteristics of GLOBAL FINANCE
5260	B.COM	BCOM6.4		CO2	Deliberate the details of INT FINANCE DECISIONS
5260	B.COM	BCOM6.4		CO3	Write down in details with examples of EXCHANGE RATE
5260	B.COM	BCOM6.4		CO4	Learn in details with examples of RISK HEDGING AND STRATEGIES
5260	B.COM	BCOM6.5		CO1	Learn in details with application, if applicable, BASICS OF INVESTMENT
5260	B.COM	BCOM6.5		CO2	Learn the characteristics of INVESTMENT ALTERNATIVES
5260	B.COM	BCOM6.5		CO3	Deliberate in details with examples STOCK SELECTION AND CONSTRUCTION
5260	B.COM	BCOM6.5	INVESTMENT MANAGEMENT	CO4	Understand the classification and characteristics of BONDS
5260	B.COM	BCOM6.5		CO5	Learn in details with application, if applicable, MUTUAL FUNDS

### COURSE OUTCOMES OF BCA PROGRAM (NEP)

BCA-Bachelor of Computer Application	CA-C2T	Problem solving Techniques	CO1	Perceive the Role of algorithm in computing,Designing and analyzing the algorithms
BCA-Bachelor of Computer Application	CA-C2T		CO2	Understanding the concepts of C programming
BCA-Bachelor of Computer Application	CA-C2T		CO3	Implement the concept of control flow,Understand the concept of array techniques
BCA-Bachelor of Computer Application	CA-C2T		CO4	Delibrate the concept of merging,sorting and searching
BCA-Bachelor of Computer Application	CA-C3T	Data Structure	CO1	Perceive the Role of Data Organization and Data Structures
BCA-Bachelor of Computer Application	CA-C3T		CO2	Understanding the concepts of Linked list,stack and queue
BCA-Bachelor of Computer Application	CA-C3T		CO3	Understanding The representation and application of Binary trees and graphs
BCA-Bachelor of Computer Application	CA-C3T		CO4	Delibrate the concept of Sorting,searching and hashing
BCA-Bachelor of Computer Application	CA-C6T		CO1	Understand and implement the number system ,learn the structure of computer
BCA-Bachelor of Computer Application	CA-C6T		CO2	Learn the Basic organization and design of computer
BCA-Bachelor of Computer Application	CA-C6T		CO3	Understanding the Micro-operations and register transfer

	BCA-Bachelor of Computer Application	CA-C6T	Computer Architecture	CO4	Delibrate the concept of Memory system
	BCA-Bachelor of Computer Application	CA-C7T	Object Oriented Programming using Java	CO1	Understand the Basics of Java programming and the concept of objects and classes
	BCA-Bachelor of Computer Application	CA-C7T		CO2	Learn Inheritance and Polymorphism
	BCA-Bachelor of Computer Application	CA-C7T		CO3	Understand the different events and GUI Programming
	BCA-Bachelor of Computer Application	CA-C7T		CO4	Learn multithreading in java
	BCA-Bachelor of Computer Application	CA-C8T	DBMS	CO1	Learn Databases abd Database users,Data models
	BCA-Bachelor of Computer Application	CA-C8T		CO2	Learn Data modeling using ER model
	BCA-Bachelor of Computer Application	CA-C8T		CO3	Understand the concept of Relational Algebra,SQL
	BCA-Bachelor of Computer Application	CA-C8T		CO4	Understanding Transaction processing,Concurrency Control
	BCA-Bachelor of Computer Application	CA-C11T	Operating System	CO1	Understand process, memory management,operating system structure and boot structure
	BCA-Bachelor of Computer Application	CA-C11T		CO2	Lern process synchronization,process scheduling, deadlocks
	BCA-Bachelor of Computer Application	CA-C11T		CO3	Understand memory management and file system
	BCA-Bachelor of Computer Application	CA-C11T		CO4	Learn about mass storage structure and case studies
	BCA-Bachelor of Computer Application	CA-C12T	Compute Networks	CO1	Understanding data communication network, physical layer and data link layer
	BCA-Bachelor of Computer Application	CA-C12T		CO2	Learn about data link control and memory access control
	BCA-Bachelor of Computer Application	CA-C12T		CO3	Understand about network layer, unicast learning
	BCA-Bachelor of Computer Application	CA-C12T		CO4	Understand transport layer, application layer, quality of service
	BCA-Bachelor of Computer Application	CA-C13T	Phython Programming	CO1	Understand programming language,control flow,functions and strings
	BCA-Bachelor of Computer Application	CA-C13T		CO2	Learn about lists,dictionary , tuples and sets
	BCA-Bachelor of Computer Application	CA-C13T		CO3	Learn about files and object oriented programming
	BCA-Bachelor of Computer Application	CA-C13T		CO4	Understand Data visualization, workng with APIs
	BCA-Bachelor of Computer Application	CA-C16T		CO1	Understand Software development life cycle, feasibility and agile development

	BCA-Bachelor of Computer Application	CA-C16T	Software Engineering	CO2	Understand formal modeling and verification , software testing
	BCA-Bachelor of Computer Application	CA-C16T		CO3	Learn about software project scheduling
	BCA-Bachelor of Computer Application	CA-C16T		CO4	understand software process improvement and framework
	BCA-Bachelor of Computer Application	CA-C17T	Artificial Intelligence	CO1	Learn about Artificial Intelligence,Heuristic search techniques
	BCA-Bachelor of Computer Application	CA-C17T		CO2	Knowledge representation using predicate logic,non-monotonic logic
	BCA-Bachelor of Computer Application	CA-C17T		CO3	Planning: block world, strips, Implementation using goal stack, Non linear planning with goal stack,representing and recognizing scenes.
	BCA-Bachelor of Computer Application	CA-C17T		CO4	Natural language processing and understanding and pragmatic, syntactic, semantic, analysis, RTN, ATN, understanding sentences
	BCA-Bachelor of Computer Application	CA-C18T	Information Technology	CO1	Learn about internet, application
	BCA-Bachelor of Computer Application	CA-C18T		CO2	Learn about HTTP and evolution of web, info retrieval on the web
	BCA-Bachelor of Computer Application	CA-C18T		CO3	understand client-side and server side technology
	BCA-Bachelor of Computer Application	CA-C18T		CO4	Learn about web data base and research trends
	BCA-Bachelor of Computer Application	CA-C17T	Design and analysis of Algorithm	CO1	Learn about algorithm , problem solving and analysis of algorithm efficiency
	BCA-Bachelor of Computer Application	CA-C17T		CO2	Understand brute force attack, Decrease and conquer
	BCA-Bachelor of Computer Application	CA-C17T		CO3	learn about space and trade off, dynamic programming
	BCA-Bachelor of Computer Application	CA-C17T		CO4	Understand algorithm power and back tracking
	BCA-Bachelor of Computer Application	CA-C22T	Data Analytics	CO1	learn about Type of Data Evolution of data ,Types of Data Analytics,Applications of Analytics
	BCA-Bachelor of Computer Application	CA-C22T		CO2	Hypothesis Testing,Appreciate the science of statistics and the scope of its potential applications
	BCA-Bachelor of Computer Application	CA-C22T		CO3	Summarize and present data in meaningful ways
	BCA-Bachelor of Computer Application	CA-C22T		CO4	Select the appropriate statistical analysis depending on the research question at hand
	BCA-Bachelor of Computer Application	CA-C23T	WEB PROGRAMMING	CO1	Understand the basics of Web Programming concepts
	BCA-Bachelor of Computer Application	CA-C23T		CO2	To build dynamic web pages with validation using JavaScript objects and by applying different event-handling mechanisms.
	BCA-Bachelor of Computer Application	CA-C23T		CO3	Analyze various PHP library functions that manipulate files and directories.

	BCA-Bachelor of Computer Application	CA-C23T		CO4	develop modern interactive web applications using PHP and XML
	BCA-Bachelor of Computer Application	CA-C27T	Machine Learning	CO1	Learn the basics of machine learning, understanding its uses, challenges, and various applications.
	BCA-Bachelor of Computer Application	CA-C27T		CO2	Build practical data skills, covering data collection, analysis, visualization, and preparation
	BCA-Bachelor of Computer Application	CA-C27T		CO3	Become skilled in using classification and regression algorithms, including selecting, training, and evaluating models.
	BCA-Bachelor of Computer Application	CA-C27T		CO4	Dive into advanced clustering and specialized applications, using methods like KMeans, DBSCAN, and others.
	BCA-Bachelor of Computer Application	CA-C28T	Mobile Application Development	CO1	Understand the basic concepts of Mobile application development
	BCA-Bachelor of Computer Application	CA-C28T		CO2	Design and develop user interfaces for the Android platforms
	BCA-Bachelor of Computer Application	CA-C28T		CO3	Apply Java programming concepts to Android application development and create an application using database
	BCA-Bachelor of Computer Application	BCA603T	Cyber Crimes, Cyber Laws and Intellectual Property Rights	CO1	Understand cyber crimes, their nature, legal remedies and as to how report the crimes through available platforms and procedures.
	BCA-Bachelor of Computer Application	BCA603T		CO2	Recognize various privacy and security concerns on Social media and e-commerce platforms
	BCA-Bachelor of Computer Application	BCA603T		CO3	Use basic tools and technologies to protect their devices.
	BCA-Bachelor of Computer Application	BCA603T		CO4	Understand digital environment and IPR issues
	BCA-Bachelor of Computer Application	CA-E2-Elective II	OPERATION RESEARCH	CO1	Formulation of optimization model and applying appropriate optimization techniques for decision making.
	BCA-Bachelor of Computer Application	CA-E2-Elective II		CO2	Solve linear programming problems using appropriate optimization techniques.
	BCA-Bachelor of Computer Application	CA-E2-Elective II		CO3	Finding the optimal strategy for Minimization of Cost of shipping of products from source to Destination.
	BCA-Bachelor of Computer Application	CA-E2-Elective II		CO4	Optimizing the allocation of resources to Demand points in the best possible way.

**Department of chemistry/Biochemistry**

**Course Outcomes for B.Sc Biochemistry (NEP)**

	Program	Course Code	Course Name	Co Code	CO
	B.Sc Biochemistry	DSC1		CO1	Understanding of Biochemistry as a discipline and milestone discoveries in life sciences that led to establishment of Biochemistry as separate discipline.
	B.Sc Biochemistry	DSC1		CO2	Fundamental properties of elements, their role in formation of biomolecules and in chemical reactions within living organisms.
	B.Sc Biochemistry	DSC1		CO3	Understanding of the concepts of mole, mole fraction, molarity, etc. and to apply them in preparations of solutions of desired strengths.
	B.Sc Biochemistry	DSC1		CO4	Revisit to fundamentals of chemical bonds, electronic configuration, theories of bond formation.
	B.Sc Biochemistry	DSC1		CO5	Unique property of water as a universal solvent and its importance in biological system



	B.Sc Biochemistry	DSC1	Chemical foundation of Biochemistry -3	CO6	Understanding of fundamentals of physical phenomena associated with Adsorption, Viscosity, Distribution law, Osmotic pressure, etc. and their importance in living organisms.
	B.Sc Biochemistry	DCCB101		CO7	Understanding of concepts of acids, bases, indicators, pKa values, etc
	B.Sc Biochemistry	OECB111	OE-1 Biochemistry in Health and Diseases	CO1	This open elective course offering to students of various streams gives knowledge about health and various terminologies used in health and disease conditions;
	B.Sc Biochemistry			CO2	Difference between communicable and non-communicable diseases; Health promotion and treatments for various diseases and disorders.
	B.Sc Biochemistry	DCCB201	Chemical foundation of biochemistry -3	CO1	These topics will enable students to understand the fundamentals of chemical processes in biological systems
	B.Sc Biochemistry			CO2	Appreciation of the roles of metals, non-metals, transition metals and coordination compounds in biological systems.
	B.Sc Biochemistry	OECB211	Nutrition and Dietetics	CO1	Knowledge about energy requirements and the Recommended Dietary Allowances.
	B.Sc Biochemistry	OECB211		CO2	understanding the functions and role of macronutrients, their requirements and the effect of deficiency and excess
		OECB211		CO3	Understand the impact of various functional foods on our health
	B.Sc Biochemistry	OECB211		CO4	
	B.Sc Biochemistry	OECB211		CO5	Competence in connecting the role of various nutrients in maintaining health and learn to enhance traditional recipes.
	B.Sc Biochemistry	OECB211		CO6	To be able to apply basic nutrition knowledge in making foods choices and obtaining an adequate diet.
	B.Sc Biochemistry	DCCB301		Bio-Organic Chemistry	CO1
	B.Sc Biochemistry	DCCB401	Analytical Biochemistry	CO1	Understanding the concept of biological sample preparation
	B.Sc Biochemistry	DCCB401		CO2	Appreciate chemistry and application of analytical instruments.
	B.Sc Biochemistry	DCCB401		CO3	Get acquainted with Care & Maintenance of Equipment & Chemicals.
	B.Sc Biochemistry	DCCB401		CO4	Clinically relevant biochemical analysis for deeper understanding of all biochemical components i.e., Proteins, Electrolytes, Hormones etc.
	B.Sc Biochemistry	DCCB401		CO5	Basic knowledge of clinical and forensic analytical methods and their principles.
	B.Sc Biochemistry	DCCB501	Biochemistry of Macromolecules	CO1	The course provides fundamental insights on the types of macromolecules; and unique structural features, chemical properties and biological importance of each
	B.Sc Biochemistry	DCCB503	Physiology and Enzymology	CO1	Describe cell structure and functions, how cells form and divide, and how they differentiate and specialize.
	B.Sc Biochemistry	DCCB503		CO2	Students will be able to describe the cyclical events of cell division and types of cell divisions. Student's knowledge with regard to the process of cell death and cell aging will enhance to its core.
	B.Sc Biochemistry	DCCB503		CO3	Physiology involves the study of how living systems function, from the molecular and cellular level to the system level, and emphasizes an integrative approach to studying the biological functions of the human body.
	B.Sc Biochemistry	DCCB503		CO4	Enzymology topics will enable students to describe structure, functions and the mechanism of action of enzymes. Learning kinetics of enzyme catalyzed reactions and enzyme inhibitions and regulatory process, Enzyme activity,
	B.Sc Biochemistry	DCCB601	Molecular Biology and Immunology	CO1	These topics will enable students to understand the molecular mechanisms via which genetic information is stored, expressed and transmitted among generations. Students will be able to define the concept of immunology and concepts of antigen and antibody, explain immune system cells, discuss active immunity, passive immunity and cellular immune mechanism.
	B.Sc Biochemistry	DCCB603		CO1	Understand the concepts of metabolism, characteristics of metabolic pathways and strategies used to study these pathways. Gain a detailed knowledge of various catabolic and anabolic pathways and its regulation
	B.Sc Biochemistry	DCCB603		CO2	Systematically learn the breakdown and synthesis of amino acids and nucleotides in humans and recognize its relevance with respect to nutrition and human diseases

	B.Sc Biochemistry	DCCB603	Bioenergetics and Metabolism	CO3	Acknowledge the role of inhibitors of nucleotide metabolism which are potentially being used as chemotherapeutic drugs
	B.Sc Biochemistry	DCCB603		CO4	Comprehend how the amino acid and nucleotide metabolism are integrated with carbohydrate and lipid metabolism

Department of chemistry/Biochemistry					
Course Outcomes for B.Sc chemistry (NEP syllabus)					
	Program	Course Code	Course Name	Co Code	CO
	B.Sc Chemistry	DCCH101	Analytical, Inorganic and Organic Chemistry- 1	CO1	The concepts of chemical analysis, accuracy, precision and statistical data treatment
	B.Sc Chemistry	DCCH101		CO2	Prepare the solutions after calculating the required quantity of salts in preparing the reagents/solutions and dilution of stock solution.
	B.Sc Chemistry	DCCH101		CO3	The concept of volumetric and gravimetric analysis and deducing the conversion factor for determination
	B.Sc Chemistry	DCCH101		CO4	Handling of toxic chemicals, concentrated acids and organic solvents and practice safety procedures.
	B.Sc Chemistry	DCCH101		CO5	The concepts of Organic reactions and techniques of writing the movement of electrons, bond breaking, bond forming
	B.Sc Chemistry	DCCH101		CO6	The Concept of aromaticity, resonance, hyper conjugation, etc.
	B.Sc Chemistry	DCCH101		CO7	Understand the preparation of alkanes, alkenes and alkynes, their reactions, etc.
	B.Sc Chemistry	DCCH101		CO8	Understand the mechanism of nucleophilic, electrophilic reactions
	B.Sc Chemistry	OECH111	CHEMISTRY IN DAILY LIFE	CO1	Describe the analysis of important constituents in food items such as fat content in dairy products, caffeine in coffee/tea, methanol in alcoholic beverages, etc.
	B.Sc Chemistry	OECH111		CO2	Give details of possible food additives, preservatives, colorants and adulterants commonly used in processed food.
	B.Sc Chemistry	OECH111		CO3	Explain the nutritional aspects of macro and micronutrients, namely oils/fats and vitamins respectively.
	B.Sc Chemistry	OECH111		CO4	Explain the chemistry of daily used products like soaps/detergents, batteries/fuel cells and polymers
	B.Sc Chemistry	DCCH201	Analytical/Physical and Organic Chemistry.	CO1	Explain the principles and concepts related to titrimetric analysis with reference to acid-base, precipitation and complexometric titrations.
	B.Sc Chemistry	DCCH201		CO2	Handling of toxic chemicals, concentrated acids and organic solvents and practice safety procedures.
	B.Sc Chemistry	DCCH201		CO3	Write the mechanisms of S <sub>N</sub> 1 and S <sub>N</sub> 2 reactions taking suitable examples.
	B.Sc Chemistry	DCCH201		CO4	Illustrate types of aromatic electrophilic and nucleophilic substitution reactions with examples.
	B.Sc Chemistry	DCCH201		CO5	Give a comprehensive description of the gaseous state in terms of molecular velocity, their distribution based on Maxwell-Boltzmann law, types of molecular velocities, molecular collision parameters, critical phenomena and liquefaction of gases.
	B.Sc Chemistry	DCCH201		CO6	Explain important properties of liquid state such as viscosity, surface tension, refraction and parachor by defining them and elaborating on their experimental determination.
	B.Sc Chemistry	DCCH201		CO7	Learn methods of determining molecular weights of solutes by measuring colligative properties and the concept of distribution law along with its applications.
	B.Sc Chemistry	DCCH201		CO8	Describe the crystalline state in detail using the terms unit cell, Bravais lattices, Miller indices, Crystal systems, symmetry elements and lattice planes.
	B.Sc Chemistry	OECH211		CO 1	Describe the biomolecules, namely carbohydrates, amino acids, lipids and nucleic acids on the basis of their classification and structure.

	B.Sc Chemistry	OECH211	Molecules of Life	CO 2	Explain enzyme action, factors influencing enzyme action, co-enzymes and enzyme specificity.
	B.Sc Chemistry	OECH211		CO 3	Depict the action of drugs in biological systems based on Receptor theory, SAR studies and binding action of various groups.
	B.Sc Chemistry	OECH211		CO 4	Study the energy dynamics of biological systems in terms of calorific values of macronutrients, their metabolic pathways and ATP as energy currency.
	B.Sc Chemistry	DCCH301	Analytical and Organic Chemistry II	CO1	Understand the importance of fundamental law and validation parameters in chemical analysis
	B.Sc Chemistry	DCCH301		CO2	Know how different analytes in different matrices (water and real samples) can be determined by spectrophotometric, nephelometric and turbidometric methods.
	B.Sc Chemistry	DCCH301		CO3	Understand the requirement for chemical analysis by paper, thin layer and column chromatography.
	B.Sc Chemistry	DCCH301		CO4	Apply solvent extraction method for quantitative determination of metal ions in different samples
	B.Sc Chemistry	DCCH301		CO5	Utilize the ion-exchange chromatography for domestic and industrial applications
	B.Sc Chemistry	DCCH301		CO6	Predict the probable mechanism for a reaction. Explain the importance of reactive intermediates role and techniques of generating such intermediates
	B.Sc Chemistry	DCCH301		CO7	Explain the importance of Stereochemistry in predicting the structure and property of organic molecules.
	B.Sc Chemistry	DCCH301		CO8	Predict the configuration of an organic molecule and able to designate it
	B.Sc Chemistry	DCCH401	Inorganic and Physical Chemistry-II	CO1	Predict the nature of the bond formed between different elements .
	B.Sc Chemistry	DCCH401		CO2	Identify the possible type of arrangements of ions in ionic compounds
	B.Sc Chemistry	DCCH401		CO3	Write Born - Haber cycle for different ionic compounds
	B.Sc Chemistry	DCCH401		CO4	Relate different energy parameters like, lattice energy, entropy, enthalpy and solvation energy in the dissolution of ionic solids
	B.Sc Chemistry	DCCH401		CO5	Explain covalent nature in ionic compounds
	B.Sc Chemistry	DCCH401		CO6	Write the M.O. energy diagrams for simple molecules
	B.Sc Chemistry	DCCH401		CO7	Differentiate bonding in metals from their compounds
	B.Sc Chemistry	DCCH401		CO8	Learn important laws of thermodynamics and their applications to various thermodynamic systems
	B.Sc Chemistry	DCCH401		CO9	Understand adsorption processes and their mechanisms and the function and purpose of a catalyst
	B.Sc Chemistry	DCCH401		CO10	Understand the concept of rate of a chemical reaction, integrated rate equations, energy of activation and determination of order of a reaction based on experimental data
	B.Sc Chemistry	DCCH401		CO11	Know different types of electrolytes, usefulness of conductance and ionic mobility measurements
	B.Sc Chemistry	DCCH501	Inorganic chemistry-III and organic Chemistry- III	CO1	To understand the chemistry of coordination compounds and their biological importance
	B.Sc Chemistry	DCCH501		CO2	To learn the types and applications of industrial materials
	B.Sc Chemistry	DCCH501		CO3	To learn about the organometallic compounds and their structure
	B.Sc Chemistry	DCCH501		CO4	Understanding of carbonyl compounds, Carboxylic acids, amines and active methylene compounds.
	B.Sc Chemistry	DCCH503		CO1	Deliberate the details of Electrochemistry I

B.Sc Chemistry	DCCH503	Physical Chemistry-III and Spectroscopy-I	CO2	Specify in details with applications of Chemical Spectroscopy
B.Sc Chemistry	DCCH503		CO3	Understanding of radioactivity.
B.Sc Chemistry	DCCH503		CO4	Understanding of Ionic equilibria.
B.Sc Chemistry	DCCH601	Inorganic chemistry-IV and Physical Chemistry-IV	CO1	To learn the types and applications of industrial materials
B.Sc Chemistry	DCCH601		CO2	Identify the classification and characteristics of Electroanalytical Methods
B.Sc Chemistry	DCCH601		CO3	To introduce the newer materials in chemistry and to discuss their properties and relevance
B.Sc Chemistry	DCCH603	Organic Chemistry-IV and Spectroscopy II	CO1	Understanding of Carbohydrates, lipids, proteins with examples
B.Sc Chemistry	DCCH603		CO2	To learn the structures and importance of terpenes, Heterocyclic compounds and alkaloids.
B.Sc Chemistry	DCCH603		CO3	structure elucidation of organic compounds using spectroscopic techniques
B.Sc Chemistry	DCCH603		CO4	Understanding of green chemistry.

Department of Bachelor of Business Administration				
Course Outcomes for BBA				
BBA – Bachelor of Business Administration	BBA 1.2	Fundamentals of Accounting	CO1	Understand the framework of accounting as well accounting standards.
BBA – Bachelor of Business Administration	BBA 1.2		CO2	The Ability to pass journal entries and prepare ledger accounts
BBA – Bachelor of Business Administration	BBA 1.2		CO3	The Ability to prepare various subsidiary books
BBA – Bachelor of Business Administration	BBA 1.2		CO4	The Ability to prepare trial balance and final accounts of proprietary concern
BBA – Bachelor of Business Administration	BBA 1.2		CO5	Construct final accounts through application of accounting software tally
BBA – Bachelor of Business Administration	BBA 1.1	MANAGEMENT PRINCIPLES & PRACTICE	CO1	The ability to understand concepts of business management, principles and function of management
BBA – Bachelor of Business Administration	BBA 1.1		CO2	The ability to explain the process of planning and decision making.
BBA – Bachelor of Business Administration	BBA 1.1		CO3	The ability to create organization structures based on authority, task and responsibilities
BBA – Bachelor of Business Administration	BBA 1.1		CO4	The ability to explain the principles of direction, importance of communication, barrier of communication, motivation theories and leadership styles.
BBA – Bachelor of Business Administration	BBA 1.1		CO5	The ability to understand the requirement of good control system and control techniques.
BBA – Bachelor of Business Administration	BBA 1.3	MARKETING MANAGEMENT	CO1	Understand the concepts and functions of marketing.
BBA – Bachelor of Business Administration	BBA 1.3		CO2	Analyse marketing environment impacting the business
BBA – Bachelor of Business Administration	BBA 1.3		CO3	Segment the market and understand the consumer behavior

	BBA – Bachelor of Business Administration	BBA 1.3		CO4	Describe the 4 p's of marketing and also strategize marketing mix
	BBA – Bachelor of Business Administration	BBA 1.3		CO5	The ability to understand the requirement of good control system and control techniques.
	BBA – Bachelor of Business Administration	BBA 2.1	FINANCIAL ACCOUNTING	CO1	Ability to understand the conversion of single entry into double entry.
	BBA – Bachelor of Business Administration	BBA 2.1		CO2	The ability to prepare final accounts of partnership firms
	BBA – Bachelor of Business Administration	BBA 2.1		CO3	The ability to understand the process of public issue of shares and accounting for the same
	BBA – Bachelor of Business Administration	BBA 2.1		CO4	The ability to prepare final accounts of joint stock companies
	BBA – Bachelor of Business Administration	BBA 2.1		CO5	The ability to prepare and evaluate vertical and horizontal analysis of financial statements
	BBA – Bachelor of Business Administration	BBA 2.2	HUMAN RESOURCE MANAGEMENT	CO1	Ability to describe the role and responsibility of Human resources management functions on business
	BBA – Bachelor of Business Administration	BBA 2.2		CO2	Ability to describe HRP, Recruitment and Selection process
	BBA – Bachelor of Business Administration	BBA 2.2		CO3	Ability to describe to induction, training, and compensation aspects
	BBA – Bachelor of Business Administration	BBA 2.2		CO4	Ability to explain performance appraisal and its process.
	BBA – Bachelor of Business Administration	BBA 2.2		CO5	Ability to demonstrate Employee Engagement and Psychological Contract
	BBA – Bachelor of Business Administration	BBA 2.3	BUSINESS ENVIRONMENT	CO1	An Understanding of components of business environment
	BBA – Bachelor of Business Administration	BBA 2.3		CO2	Ability to analyse the environmental factors influencing business organisation
	BBA – Bachelor of Business Administration	BBA 2.3		CO3	Ability to demonstrate Competitive structure analysis for select industry.
	BBA – Bachelor of Business Administration	BBA 2.3		CO4	Ability to explain the impact of fiscal policy and monetary policy on business
	BBA – Bachelor of Business Administration	BBA 2.3		CO5	Ability to analyse the impact of economic environmental factors on business.
	BBA – Bachelor of Business Administration	BBA 2.3	BUSINESS MATHEMATICS	CO1	The application of equations to solve business problems
	BBA – Bachelor of Business Administration	BBA 2.3		CO2	The Application AP and GP in solving business problems
	BBA – Bachelor of Business Administration	BBA 2.3		CO3	The calculation of simple interest, compound interest and discounting of Bills of Exchange
	BBA – Bachelor of Business Administration	BBA 2.3		CO4	The application of matrices in business.
	BBA – Bachelor of Business Administration	BBA 2.3		CO5	The Application of ratios and proportions in business.

	BBA – Bachelor of Business Administration	BBA. 3.1	COST ACCOUNTING	CO1	Demonstrate an understanding of the concepts of costing and cost accounting
	BBA – Bachelor of Business Administration	BBA. 3.1		CO2	Classify, allocate apportion overheads and calculate overhead absorption rates.
	BBA – Bachelor of Business Administration	BBA. 3.1		CO3	Demonstrate the ability to calculate labour cost
	BBA – Bachelor of Business Administration	BBA. 3.1		CO4	The ability to prepare final accounts of joint stock companies
	BBA – Bachelor of Business Administration	BBA. 3.1		CO5	Prepare material related documents, understand the management of stores and issue procedures
	BBA – Bachelor of Business Administration	BBA 3.2	ORGANIZATIONAL BEHAVIOUR	CO1	Demonstrate an understanding of the role of OB in business organization
	BBA – Bachelor of Business Administration	BBA 3.2		CO2	Demonstrate an ability to understand individual and group behavior in an organization.
	BBA – Bachelor of Business Administration	BBA 3.2		CO3	Be able to explain the effectiveness of organizational change and development of organisation.
	BBA – Bachelor of Business Administration	BBA 3.2		CO4	Demonstrate an understanding of the process of organizational development and OD Interventions.
	BBA – Bachelor of Business Administration	BBA 3.3	BUSINESS ENVIRONMENT	CO1	An Understanding of components of business environment
	BBA – Bachelor of Business Administration	BBA 3.3		CO2	Ability to analyse the environmental factors influencing business organisation
	BBA – Bachelor of Business Administration	BBA 3.3		CO3	Ability to demonstrate Competitive structure analysis for select industry.
	BBA – Bachelor of Business Administration	BBA 3.3		CO4	Ability to explain the impact of fiscal policy and monetary policy on business
	BBA – Bachelor of Business Administration	BBA 3.3		CO5	Ability to analyse the impact of economic environmental factors on business.
	BBA – Bachelor of Business Administration	BBA 2.3	STATISTICS FOR BUSINESS DECISIONS	CO1	To understand the basic concepts in statistics.
	BBA – Bachelor of Business Administration	BBA 2.3		CO2	To classify and construct statistical tables.
	BBA – Bachelor of Business Administration	BBA 2.3		CO3	To understand and construct various measures of central tendency, dispersion and skewness
	BBA – Bachelor of Business Administration	BBA 2.3		CO4	To apply correlation and regression for data analysis.
	BBA – Bachelor of Business Administration	BBA.4.1	Management Accounting	CO1	Explain the application of management accounting and various tool used
	BBA – Bachelor of Business Administration	BBA.4.1		CO2	Make inter – firm and inter- period comparison of financial statements
	BBA – Bachelor of Business Administration	BBA.4.1		CO3	Analyse financial statements using various ratios for business decisions.
	BBA – Bachelor of Business Administration	BBA.4.1		CO4	Prepare fund flow and cash flow statements

	BBA – Bachelor of Business Administration	BBA.4.1		CO5	Prepare different types of budgets for the business.
	BBA – Bachelor of Business Administration	BBA.4.2	Business Analytics	CO1	Understand types of analytics and data models
	BBA – Bachelor of Business Administration	BBA.4.2		CO2	Understand the role of data indecision making, sources and types of Data.
	BBA – Bachelor of Business Administration	BBA.4.2		CO3	Ability to analyse data using different data analytic tools and draw inferences.
	BBA – Bachelor of Business Administration	BBA.4.2		CO4	Understand applied statistics for business problems.
	BBA – Bachelor of Business Administration	BBA.4.2		CO5	Demonstrate visualization of data.
	BBA – Bachelor of Business Administration	BBA.4.2	Financial Markets & Services	CO1	Understand the Overview of Indian financial system.
	BBA – Bachelor of Business Administration	BBA.4.2		CO2	Understand the different types of financial institutions and their role.
	BBA – Bachelor of Business Administration	BBA.4.2		CO3	Understand concept of financial services, types and functions.
	BBA – Bachelor of Business Administration	BBA.4.2		CO4	Understand the different types of financial Instruments and its features.
	BBA – Bachelor of Business Administration	BBA.4.2		CO5	Understand the different types of financial market and its role.
	BBA – Bachelor of Business Administration	BBA.4.3	Financial Management	CO1	To identify the goals of financial management.
	BBA – Bachelor of Business Administration	BBA.4.3		CO2	to apply the concepts of time value of money for financial decision making.
	BBA – Bachelor of Business Administration	BBA.4.3		CO3	To evaluate projects using capital budgeting techniques.
	BBA – Bachelor of Business Administration	BBA.4.3		CO4	To design optimum capital structure using EBIT and EPS analysis.
	BBA – Bachelor of Business Administration	BBA.4.3		CO5	To evaluate working capital effectiveness in an organization
	BBA – Bachelor of Business Administration	BBA 5.1	Production and Operations Management	CO1	Understand ever growing importance of Production and Operations Management in an uncertain business environment.
	BBA – Bachelor of Business Administration	BBA 5.1		CO2	Gain an in-depth understanding of Plant Location and Layout
	BBA – Bachelor of Business Administration	BBA 5.1		CO3	Appreciate the unique challenges faced by firms in Inventory Management.
	BBA – Bachelor of Business Administration	BBA 5.1		CO4	Understand the subject of Production Planning and Control.
	BBA – Bachelor of Business Administration	BBA 5.1		CO5	Develop skills to operate competitively in the current business scenario
	BBA – Bachelor of Business Administration	BBA 5.2		CO1	Comprehend the procedure for computation of Total Income and tax liability of an individual.

	BBA – Bachelor of Business Administration	BBA 5.2	Income Tax - I	CO2	Understand the provisions for determining the residential status of an Individual.
	BBA – Bachelor of Business Administration	BBA 5.2		CO3	Comprehend the meaning of Salary, Perquisites, Profit in lieu of salary, allowances and various retirement benefits.
	BBA – Bachelor of Business Administration	BBA 5.2		CO4	Compute the income house property for different categories of house property.
	BBA – Bachelor of Business Administration	BBA 5.2		CO5	Comprehend TDS & advances tax Ruling and identify the various deductions under section 80.
	BBA – Bachelor of Business Administration	BBA 5.3	Banking Law and Practice	CO1	Understand the legal aspects of banker and customer relationship.
	BBA – Bachelor of Business Administration	BBA 5.3		CO2	Open the different types of accounts.
	BBA – Bachelor of Business Administration	BBA 5.3		CO3	Describe the various operations of banks.
	BBA – Bachelor of Business Administration	BBA 5.3		CO4	Understand the different types of crossing of cheques and endorsement.
	BBA – Bachelor of Business Administration	BBA 5.3		CO5	Understanding of different types of E-payments.
	BBA – Bachelor of Business Administration	BBA 5.6	Information Technology for Business	CO1	Understand the fundamentals of information technology
	BBA – Bachelor of Business Administration	BBA 5.6		CO2	Understand usage of information science in business.
	BBA – Bachelor of Business Administration	BBA 5.6		CO3	Learn core concepts of Database Management systems
	BBA – Bachelor of Business Administration	BBA 5.6		CO4	Understanding the usage of MS Excel in Business.
	BBA – Bachelor of Business Administration	BBA 5.6		CO5	Awareness about latest trends in IT.
	BBA – Bachelor of Business Administration	BBA 5.7	Employability Skills	CO1	To understand about employability skills
	BBA – Bachelor of Business Administration	BBA 5.4 (FN1)	ADVANCED CORPORATE FINANCIAL MANAGEMENT	CO1	Understand and determine the overall cost of capital.
	BBA – Bachelor of Business Administration	BBA 5.4 (FN1)		CO2	Comprehend the different advanced capital budgeting techniques.
	BBA – Bachelor of Business Administration	BBA 5.4 (FN1)		CO3	Understand the importance of dividend decisions and dividend theories.
	BBA – Bachelor of Business Administration	BBA 5.4 (FN1)		CO4	Understand current asset management
	BBA – Bachelor of Business Administration	BBA 5.4 (HRM1)	Human Resource Development and Leadership	CO1	Understand the need of HRD.
	BBA – Bachelor of Business Administration	BBA 5.4 (HRM1)		CO2	Comprehend the framework of HRD.
	BBA – Bachelor of Business Administration	BBA 5.4 (HRM1)		CO3	Understand the models for evaluating the HRD.



	BBA – Bachelor of Business Administration	BBA 5.4 (HRM1)		CO4	Analyse different leadership styles, types, patterns and functions.
	BBA – Bachelor of Business Administration	BBA 5.4 (HRM1)		CO5	Demonstrate an understanding of various leadership approaches for effective management of people.
	BBA – Bachelor of Business Administration	BBA 5.4 (MK1)	Consumer Behavior and Market Research	CO1	Understanding of Consumer Behavior towards products, brands, and services.
	BBA – Bachelor of Business Administration	BBA 5.4 (MK1)		CO2	Establish the relevance of consumer behavior theories and concepts to marketing decisions.
	BBA – Bachelor of Business Administration	BBA 5.4 (MK1)		CO3	Implement appropriate combinations of theories and concepts.
	BBA – Bachelor of Business Administration	BBA 5.4 (MK1)		CO4	Understanding of market research process
	BBA – Bachelor of Business Administration	BBA 5.4 (MK1)		CO5	Understanding of Data Analysis and reporting in market research.
	BBA – Bachelor of Business Administration	BBA 5.4 (BDA1)	Financial Analytics	CO1	Analyze and model financial data.
	BBA – Bachelor of Business Administration	BBA 5.4 (BDA1)		CO2	Access the different open-source domains.
	BBA – Bachelor of Business Administration	BBA 5.4 (BDA1)		CO3	Evaluate and build model on time series data.
	BBA – Bachelor of Business Administration	BBA 5.4 (BDA1)		CO4	Execute the statistical analysis using python
	BBA – Bachelor of Business Administration	BBA 5.4 (BDA1)		CO1	Understand the fundamentals of Logistics and Supply Chain Management
	BBA – Bachelor of Business Administration	BBA 5.4 (LSM1)	Fundamentals of Supply Chain Management	CO2	Comprehend the relationship between competitive strategies and supply chain strategies
	BBA – Bachelor of Business Administration	BBA 5.4 (LSM1)		CO3	Analyse the latest trends and challenges in the field of Logistics and Supply chain management
	BBA – Bachelor of Business Administration	BBA 5.4 (LSM1)		CO4	Understand the best practices in SCM
	BBA – Bachelor of Business Administration	BBA 5.4 (LSM1)		CO4	Understand the best practices in SCM
	BBA – Bachelor of Business Administration	BBA 6.1	BUSINESS LAW	CO1	Comprehend the laws relating to Contracts and its application in business activities.
	BBA – Bachelor of Business Administration	BBA 6.1		CO2	Comprehend the rules for Sale of Goods and rights and duties of a buyer and a Seller.
	BBA – Bachelor of Business Administration	BBA 6.1		CO3	Understand the importance of Negotiable Instrument Act and its provisions relating to Cheque and other Negotiable Instruments.
	BBA – Bachelor of Business Administration	BBA 6.1		CO4	Understand the significance of Consumer Protection Act and its features
	BBA – Bachelor of Business Administration	BBA 6.1		CO5	Understand the need for Environment Protection
	BBA – Bachelor of Business Administration	BBA 6.2		CO1	Understand the procedure for computation of income from business and other Profession.

	BBA – Bachelor of Business Administration	BBA 6.2	INCOME TAX 2	CO2	Ability to compute capital gains.
	BBA – Bachelor of Business Administration	BBA 6.2		CO3	Compute the income from other sources.
	BBA – Bachelor of Business Administration	BBA 6.2		CO4	Demonstrate the computation of total income of an Individual.
	BBA – Bachelor of Business Administration	BBA 6.2		CO5	Comprehend the assessment procedure and to know the power of income tax authorities.
	BBA – Bachelor of Business Administration	BBA 6.3	INTERNATIONAL BUSINESS	CO1	Understand the concept of International Business.
	BBA – Bachelor of Business Administration	BBA 6.3		CO2	Differentiate the Internal and External International Business Environment.
	BBA – Bachelor of Business Administration	BBA 6.3		CO3	Understand the difference between MNC and TNC
	BBA – Bachelor of Business Administration	BBA 6.3		CO4	Understand the role of International Organisations in International Business.
	BBA – Bachelor of Business Administration	BBA 6.3		CO5	Understand International Operations Management.
	BBA – Bachelor of Business Administration	BBA 6.4/BBA 6.5 (FN2)	Security Analysis and Portfolio Management	CO1	Understand the concept of basics of Investment.
	BBA – Bachelor of Business Administration	BBA 6.4/BBA 6.5 (FN2)		CO2	Evaluate the different types of investment alternatives.
	BBA – Bachelor of Business Administration	BBA 6.4/BBA 6.5 (FN2)		CO3	Evaluate portfolio and portfolio management.
	BBA – Bachelor of Business Administration	BBA 6.4/BBA 6.5 (FN2)		CO4	Understand the concept of risk and returns.
	BBA – Bachelor of Business Administration	BBA 6.4/BBA 6.5 (FN2)		CO5	Understand fundamental and technical analysis.
	BBA – Bachelor of Business Administration	BBA 6.4/BBA 6.5 (MKT2)	Advertising and Media Management	CO1	Understand the nature, role, and importance of IMC in marketing strategy
	BBA – Bachelor of Business Administration	BBA 6.4/BBA 6.5 (MKT2)		CO2	Understand effective design and implementation of advertising strategies
	BBA – Bachelor of Business Administration	BBA 6.4/BBA 6.5 (MKT2)		CO3	Present a general understanding of content, structure, and appeal of advertisements
	BBA – Bachelor of Business Administration	BBA 6.4/BBA 6.5 (MKT2)		CO4	Understand ethical challenges related to responsible advertising and brand strategy management.
	BBA – Bachelor of Business Administration	BBA 6.4/BBA 6.5 (MKT2)		CO5	Evaluate the effectiveness of advertising and agencies role
	BBA – Bachelor of Business Administration	BBA 6.4/BBA 6.5 (HRM2)	Compensation and Performance Management	CO1	Understand the concepts of Compensation management.
	BBA – Bachelor of Business Administration	BBA 6.4/BBA 6.5 (HRM2)		CO2	Describe job evaluation and its methods.
	BBA – Bachelor of Business Administration	BBA 6.4/BBA 6.5 (HRM2)		CO3	Evaluate the different methods of wages.

	BBA – Bachelor of Business Administration	BBA 6.4/BBA 6.5 (HRM2)		CO4	Describe performance management and methods of performance management.
	BBA – Bachelor of Business Administration	BBA 6.4/BBA 6.5 (HRM2)		CO5	Preparation of Payroll.
	BBA – Bachelor of Business Administration	BBA 6.4/BBA 6.5 (BDA2)	Marketing Analytics	CO1	Understand the importance of marketing analytics for the forward-looking and systematic allocation of marketing resources
	BBA – Bachelor of Business Administration	BBA 6.4/BBA 6.5 (BDA2)		CO2	Apply marketing analytics to develop a predictive marketing dashboard for the organisation.
	BBA – Bachelor of Business Administration	BBA 6.4/BBA 6.5 (BDA2)		CO3	Analyse data and develop insights to address strategic marketing challenges
	BBA – Bachelor of Business Administration	BBA 6.4/BBA 6.5 (BDA2)		CO4	Execute the models on Predictions and Classifications on R Software. Know the applications of analytics in marketing.
	BBA – Bachelor of Business Administration	BBA 6.4/BBA 6.5 (LSCM2)		Logistics Management	CO1
	BBA – Bachelor of Business Administration	BBA 6.4/BBA 6.5 (LSCM2)	CO2		Comprehend the various elements of logistics management
	BBA – Bachelor of Business Administration	BBA 6.4/BBA 6.5 (LSCM2)	CO3		Analyse the functionality and utility of inventory, warehousing, packaging and material handling
	BBA – Bachelor of Business Administration	BBA 6.4/BBA 6.5 (LSCM2)	CO4		Understand the various aspects of transportation management
	BBA – Bachelor of Business Administration	BBA 6.4/BBA 6.5 (LSCM2)	CO5		Role of the government in enhancing the logistics efficiency.
	BBA – Bachelor of Business Administration	BBA 6.6	Event Management	CO1	Understand the significance of various events
	BBA – Bachelor of Business Administration	BBA 6.6		CO2	Demonstrate the ability to organize the event.
	BBA – Bachelor of Business Administration	BBA 6.6		CO3	Demonstrate the ability to conduct the event.
	BBA – Bachelor of Business Administration	BBA 6.6		CO4	Prepare the budget require for conducting an event.
	BBA – Bachelor of Business Administration	BBA 6.6		CO5	Learn the planning and executing of corporate events.
Department of Commerce MCOM					
	MCOM-Master of Commerce	1.1	Global Business Environment	CO1	Understand the nature and significance of global business and its managerial implications
	MCOM-Master of Commerce	1.1		CO2	Explore the economic and trade environments at regional and international levels
	MCOM-Master of Commerce	1.1		CO3	Examine the role and impact of multinational corporations (MNCs) in the global econom
	MCOM-Master of Commerce	1.2	Monetary System	CO1	Understand the Principles & Systems of Note Issue
	MCOM-Master of Commerce	1.2		CO2	Understand the monetary system prevailing in India and other countries.
	MCOM-Master of Commerce	1.2		CO3	Expose students to the depth of the Domestic and International Monetary system and practices in general.
	MCOM-Master of Commerce	1.3	Principles of Business Decisions	CO1	Understand the fundamentals of economics and its relevance to business and industry
	MCOM-Master of Commerce	1.3		CO2	. Learn about public financial policy, including taxation, public expenditure, and public debt

	MCOM-Master of Commerce	1.3		CO3	. Learn about public financial policy, including taxation, public expenditure, and public debt
	MCOM-Master of Commerce	1.4	<b>Technology in Business</b>	CO1	<b>Understand the fundamentals of e-commerce, including its history, business models, and impact on traditional commerce</b>
	MCOM-Master of Commerce	1.4		CO2	<b>Explore privacy and security issues in e-commerce, including encryption methods,cyber-crimes,and internet security protocols</b>
	MCOM-Master of Commerce	1.4		CO3	<b>Gain knowledge of the IT Act of 2000and its amendments, including cyber laws, internet frauds, and compliance requirements</b>
	MCOM-Master of Commerce	1.5		<b>Advanced Financial Management and Practices</b>	CO1
	MCOM-Master of Commerce	1.5	CO2		<b>Enable the students to apply the techniques in financial decision making.</b>
	MCOM-Master of Commerce	1.5	CO3		<b>Enhance understanding of risk analysis methodologies in capital budgeting and their application in real-world scenarios</b>
	MCOM-Master of Commerce	1.6	<b>Knowledge Management and Innovation</b>	CO1	<b>Understand the core concepts of knowledge management Apply knowledge management in various multi-disciplinary areas</b>
	MCOM-Master of Commerce	1.6		CO2	<b>Enhance the knowledge management creation process</b>
	MCOM-Master of Commerce	1.7	<b>Business Models for Start-ups</b>	CO1	<b>Understand the core concepts of start-up business</b>
	MCOM-Master of Commerce	1.7		CO2	<b>Apply the knowledge in venturing in to the business</b>
	MCOM-Master of Commerce	1.7		CO3	<b>Prepare business plan proposal</b>
	MCOM-Master of Commerce	1.7		CO4	<b>Able to understand government initiatives towards start-up India</b>
	MCOM-Master of Commerce	2.1	<b>Contemporary Indian Banking</b>	CO1	<b>Understand the evolution and phases of the Indian banking system, including the roles and functions of various types of banks.</b>
	MCOM-Master of Commerce	2.1		CO2	<b>Explore the history, structure, functions, and recent measures of the Reserve Bank of India (RBI) and its monetary policy tools</b>
	MCOM-Master of Commerce	2.1		CO3	<b>Gain knowledge of non-performing assets (NPA), including their identification, classification, provisioning, and management techniques</b>
	MCOM-Master of Commerce	2.2	<b>Risk Management and Derivatives</b>	CO1	<b>Enable students to have a comprehensive knowledge about Risk management</b>
	MCOM-Master of Commerce	2.2		CO2	<b>Expose students to Market risk and Operation risk</b>
	MCOM-Master of Commerce	2.2		CO3	<b>Make students to understand various types of exposures of and risks associated with trading.</b>
	MCOM-Master of Commerce	2.3	<b>Advanced Research Methodology</b>	CO1	Enable students understand the process of Advanced Research Methodology in business
	MCOM-Master of Commerce	2.3		CO2	Build skills required for doing business research in the corporate world
	MCOM-Master of Commerce	2.3		CO3	Gain proficiency in sampling techniques, hypothesis testing, and statistical analysis methods.
	MCOM-Master of Commerce	2.4	<b>Digital Marketing</b>	CO1	Understand the fundamentals of digital marketing, including its history, scope, and objectives.
	MCOM-Master of Commerce	2.4		CO2	Learn about the importance of research in digital marketing, including data-driven strategies and consumer behavior analysis
	MCOM-Master of Commerce	2.4		CO3	Explore emerging issues in digital marketing, such as online governance, ethical and legal considerations, and cybersecurity.
	MCOM-Master of Commerce	2.6	<b>Indian Ethos and Leadership</b>	CO1	Understand Indian philosophical systems, core principles and contributions.
	MCOM-Master of Commerce	2.6		CO2	Uphold Work Ethos and values can lead to more ethical decision-making and long-term success for organization.and society at large.
	MCOM-Master of Commerce	2.6		CO3	esign appropriate leadership qualities required to meet Current organization needs
	MCOM-Master of Commerce	2.7	<b>Financial Modelling for Business</b>	CO1	Able to understand the items in balance sheet of a company and forecast the future for better decision making
	MCOM-Master of Commerce	2.7		CO2	Able to forecast the future for better decision making
	MCOM-Master of Commerce	2.7		CO3	Able to understand how to create financial models
	MCOM-Master of Commerce	2.7		CO4	Able to apply and analyse financial statements using financial models
	MCOM-Master of Commerce	3.1		CO1	Grasp the basic concepts and types of intellectual property, including patents, copyrights, trademarks, and trade secrets.

	MCOM-Master of Commerce	3.1	Intellectual Property Right	CO2	Explore the legal frameworks governing intellectual property at both national and international levels, including treaties and conventions
	MCOM-Master of Commerce	3.1		CO3	Examine the mechanisms for resolving IP disputes, including litigation, arbitration, and alternative dispute resolution methods.
	MCOM-Master of Commerce	3.2	Trade Logistics and Supply Chain Management	CO1	Equip students with the knowledge and skills needed to effectively plan, manage, and optimize the flow of goods and services from the point of origin to the point of consumption.
	MCOM-Master of Commerce	3.2		CO2	Provide a comprehensive understanding of logistics and supply chain management
	MCOM-Master of Commerce	3.2		CO3	Prepare students for careers in a field that plays a critical role in the success of businesses and organizations
	MCOM-Master of Commerce	3.3	Business Reporting and Presentation	CO1	Gain a foundational understanding of the principles and importance of effective business communication, including reporting practices.
	MCOM-Master of Commerce	3.3		CO2	Explore various types of business reports (e.g., financial reports, progress reports, feasibility studies) and their purposes within an organization.
	MCOM-Master of Commerce	3.3		CO3	Develop essential skills for writing clear, concise, and structured business reports, including executive summaries, data analysis, and recommendations.
	MCOM-Master of Commerce	3.4	Strategic Cost Management	CO1	Understand strategy from the perspective of costing in an enterprise.
	MCOM-Master of Commerce	3.4		CO2	To identify the activities that cause production costs to increase, helping team leaders make more informed pricing and manufacturing strategies
	MCOM-Master of Commerce	3.4		CO3	Analyze and understand the relevance of non-financial information about productivity, quality, and other key success factors for the firm.
	MCOM-Master of Commerce	3.5	Corporate Tax Planning	CO1	To understand tax planning, management, evasion and avoidance under different business scenarios
	MCOM-Master of Commerce	3.5		CO2	Calculate Corporate tax and understand MAT provisions
	MCOM-Master of Commerce	3.5		CO3	Calculate and advise financial management decisions from tax point of view
	MCOM-Master of Commerce	4.1	Analytics in Commerce & Business	CO1	Understand the basic concepts and importance of analytics in business decision-making and strategy formulation.
	MCOM-Master of Commerce	4.1		CO2	Learn techniques for collecting, managing, and organizing data from various sources, including structured and unstructured data.
	MCOM-Master of Commerce	4.1		CO3	Develop skills in descriptive analytics to summarize historical data and identify trends and patterns that inform business decisions.
	MCOM-Master of Commerce	4.2	Forensic Accounting & Auditing	CO1	Understand the principles and practices of forensic accounting, including the role of forensic accountants in fraud detection and prevention.
	MCOM-Master of Commerce	4.2		CO2	Learn various techniques and tools used to identify and investigate fraud, including analytical procedures, interviews, and data analysis.
	MCOM-Master of Commerce	4.2		CO3	Familiarize with the legal aspects of forensic accounting and auditing, including relevant laws, regulations, and ethical considerations.
	MCOM-Master of Commerce	4.3	International Accounting	CO1	Standards (IFRS) and how they differ from Generally Accepted Accounting Principles (GAAP).
	MCOM-Master of Commerce	4.3		CO2	Learn how multinational corporations prepare and present financial statements in accordance with international standards, addressing complexities in diverse regulatory environments.
	MCOM-Master of Commerce	4.3		CO3	Explore the accounting and tax implications of cross-border transactions, including foreign currency translation and international tax considerations.
	MCOM-Master of Commerce	4.4	Strategic Cost Management - 2	CO1	Provide the students with a frame work for analysis and design of internal accounting systems
	MCOM-Master of Commerce	4.4		CO2	Explain how these systems are used for decision making and motivating people in the organisations. Strategic Cost Management
	MCOM-Master of Commerce	4.4		CO3	Understand the internal environment of business and to enable them to formulate strategies
	MCOM-Master of Commerce	4.5	Goods and Services Tax	CO1	Familiarize with the relevant laws, regulations, and compliance requirements associated with GST at the national and state levels.
	MCOM-Master of Commerce	4.5		CO2	Learn about the procedures for GST registration, including eligibility criteria, documentation, and the implications of registration.
	MCOM-Master of Commerce	4.5		CO3	Explore the various GST rates applicable to different goods and services, along with the classification rules for accurate tax determination.

Department of Electronics

B.Sc(Electronics) 1st Sem(NEP)	ELE-CT1	Electronic Devices and Circuits	CO1	Aptitude to apply Logic thinking and Basic Science knowledge for problem solving in various fields of electronics both in industries and research
	ELE-CT1		CO2	To acquire experimental skills, analysing the results and interpret data.
	ELE-CT1		CO3	Ability to design / develop / manage / operation and maintenance of sophisticated electronic gadgets / systems / processes that conforms to a given specification within ethical and economic constraints.

	ELE-CT1		CO4	Capacity to identify and implementation of the formulate to solve the electronic related issues and analyze the problems in various sub disciplines of electronics.
	ELE-CT1		CO5	Capability to understand the working principles of the electronic devices and their applications.
B.Sc(Electronic s) 1st Sem(NEP)	ELE-OE 1.5	Digital Fundamentals	CO1	Aptitude to apply Logic thinking and Basic Science knowledge for problem solving in various fields of electronics both in industries and research
	ELE-OE 1.5		CO2	To acquire experimental skills, analysing the results and interpret data.
	ELE-OE 1.5		CO3	Ability to design / develop / manage / operation and maintenance of sophisticated electronic gadgets / systems / processes that conforms to a given specification within ethical and economic constraints.
	ELE-OE 1.5		CO4	Capacity to identify and implementation of the formulate to solve the electronic related issues and analyze the problems in various sub disciplines of electronics.
	ELE-OE 1.5		CO5	Capability to develop mobile app.
<b>2nd Sem(NEP)</b>				
B.Sc(Electronic s) 2nd Sem(NEP)	ELE-CT2	Analog and Digital Electronics	CO1	Understand and study the behaviour of the semiconductor devices ie., I- V characteristics of various MOSFET devices the knowledge can be extended for understanding the behaviour /characteristics/ response of unknown / novel
	ELE-CT2		CO2	Applying the standard device models to explain/calculate critical internal parameters of semiconductor devices.
	ELE-CT2		CO3	Understanding and characterizing the behaviour of known/unknown/novel power electronic devices such as UJT, SCR, Diac, Triac etc.
	ELE-CT2		CO4	Acquainting and familiarization of the experimental skills to determine the behaviour of semiconductor devices.
	ELE-CT2		CO5	Capable of analyzing the device characteristics and responses.
	ELE-CT2		CO6	Understanding the working of basic logic gates, concepts of Boolean algebra and techniques to reduce/simplify Boolean expressions and their applications.
B.Sc(Electronic s) 2nd Sem(NEP)	ELE-OE 1.5	Digital Systems	CO1	Aptitude to apply Logic thinking and Basic Science knowledge for problem solving in various fields of electronics both in industries and research
	ELE-OE 1.5		CO2	To acquire experimental skills, analysing the results and interpret data.
	ELE-OE 1.5		CO3	Ability to design / develop / manage / operation and maintenance of sophisticated electronic gadgets / systems / processes that conforms to a given specification within ethical and economic constraints.
	ELE-OE 1.5		CO4	Capacity to identify and implementation of the formulate to solve the electronic related issues and analyze the problems in various sub disciplines of electronics.
	ELE-OE 1.5		CO5	Capability to develop mobile app.
<b>3rd Sem(NEP)</b>				
B.Sc(Electronic s) 3rd Sem(NEP)	ELE-CT3	PROGRAMMING IN C AND DIGITAL DESIGN USING VERILOG	CO1	Write and execute and debug C codes for solving problems
	ELE-CT3		CO2	Apply the acquired knowledge of digital circuits in different levels of modeling using Verilog HDL.
	ELE-CT3		CO3	Design and verify the functionality of digital circuit/system using test benches
	ELE-CT3		CO4	constructs.
	ELE-CT3		CO5	Design and analyse algorithms for solving simple problems.
<b>4th Sem(NEP)</b>				
B.Sc(Electronic s) 4th Sem(NEP)	ELE CT 4	Electronic Communication-I	CO1	Know the basic concept of Analog Communication, means and medium of communication.
	ELE CT 4		CO2	Understand the principle of Analog and digital modulation.CO3. Familiar with —AMI and —FM —techniques.
	ELE CT 4		CO3	Understand the basic concept of Pulse Modulation, Carrier Modulation for digital transmission and able to construct simple pulse modulation.
	ELE CT 4		CO4	Understand the basic concept of Satellite Communication
	ELE CT 4		CO5	Understand the basic concept of Optical Fibre Communication
<b>5th Sem(NEP)</b>				
B.Sc(Electronic s) 5th Sem(NEP)	DSCSEL501	Paper-5: Communication II	CO1	Know the various microwave devices, their working and applications
	DSCSEL501		CO2	Familiar with ASK, FSK, PSK, BPSK, QPSK digital modulation techniques
	DSCSEL501		CO3	Understand the basic concept of cell phone handset, working principle of cellular communication and wireless technologies
	DSCSEL501		CO4	Understand different Computer Networks, OSI layers, Ethernet and IEEE 802.11 a/b/g/n standards.
<b>6th Sem(NEP)</b>				

B.Sc(Electronics) ) 6th Sem(NEP)	DSC502	Paper 6 : Embedded Controllers	CO1	Identify and understand function of different blocks of 8051 microcontrollers using C Gain the knowledge to interface LCD, Keyboard, ADC, DAC, DC motor, etc. Design and develop small scale embedded systems.
	DSC502		CO2	
	DSC502		CO3	
	DSC502		CO4	
	DSC601	Paper - 7 Electronic Instrumentation and Biomedical Instruments	CO1	Able to calibrate the instruments to minimize measurement errors Use different data acquisition systems to acquire real-time data of data acquisition system and develop professional skills in acquiring and applying the knowledge outside the classroom through design of a real-life instrumentation system
	DSC601		CO2	
	DSC601		CO3	

Department of Mathematics

BSc Mathematics	MATDSCT 1.1	Algebra - I and Calculus - I	CO1	Learn to find rank of a matrix.
	MATDSCT 1.1		CO2	Solve the system of homogeneous and non-homogeneous linear system of ' m' equations in ' n' variables by using concept of rank of matrix
	MATDSCT 1.1		CO3	find nth derivatives of some standard functions
	MATDSCT 1.1		CO4	functions
	MATDSCT 1.1		CO5	Identify and apply the intermediate value theorems and L'Hospital's rule.
	MATDSCT 1.1		CO6	learn partial differentiation, Jacobians and related properties.
	MATDSCT 2.1	Algebra - II and Calculus - II	CO1	Recognize the mathematical objects called Groups.
	MATDSCT 2.1		CO2	objects.
	MATDSCT 2.1		CO3	groups.
	MATDSCT 2.1		CO4	Learn the quotient groups, concepts of homomorphism, isomorphism and properties related to isomorphism.
	MATDSCT 2.1		CO5	Learn solve problems related to angle between radius vector and tangent, angle between two curves.
	MATDSCT 2.1		CO6	Learn expressing the curves in pedal form
	MATDSCT 2.1		CO7	find the center of curvature, asymptotes, evolutes and envelopes of the given curve and length of an arc, area of plane curves and surface area, volume of revolution
	MATDSCT 3.1	Ordinary Differential Equations and Real Analysis – I	CO1	Solve first-order non-linear differential equations and linear differential equations.
	3.1		CO2	To model problems in nature using Ordinary Differential Equations.
	3.1		CO3	Formulate differential equations for various mathematical models
	3.1		CO4	Apply these techniques to solve and analyze various mathematical models.
	MATDSCT 3.1		CO5	Understand the fundamental properties of the real numbers that lead to define sequence and series, the formal development of real analysis.
	3.1		CO6	Learn the concept of Convergence and Divergence of a sequence.
	MATDSCT 3.1		CO7	Able to handle and understand limits and their use in sequences, series, differentiation, and integration.
	MATDSCT 4.1	Partial Differential Equations and Integral Transforms	CO1	Apply the ratio, root, alternating series, and limit comparison tests for convergence and absolute convergence of an infinite series.
	MATDSCT 4.1		CO2	Formulate, classify and transform partial differential equations into canonical form
	MATDSCT 4.1		CO3	Solve the partial differential equations of the first order and second order
	MATDSCT 4.1		CO4	Solve linear and non-linear partial differential equations using various methods; and apply these methods to solving some physical problems.
	MATDSCT 4.1		CO5	take more courses on wave equation, heat equation and Laplace equation. Solve PDE by Laplace transforms.
	MATDSCT 5.1	Real Analysis-II and Complex Analysis	CO1	Carry out certain computations such as improper integrals involving Beta and Gamma functions.
	MATDSCT 5.1		CO2	Exhibit certain properties of mathematical objects such as integrable functions, analytic functions, harmonic functions and so on.
	MATDSCT 5.1		CO3	Prove some statements related to complex integrals as well as in complex analysis.
	MATDSCT 5.1		CO4	Carry out the existing algorithms to construct mathematical structures such as analytic functions.

MATDSCT 5.1		CO5	Evaluate the utility of complex analysis in solving real world problems.
MATDSCT5.2	Vector Calculus and Analytical Geometry	CO1	Get introduced to the fundamentals of vector differential and integral calculus.
MATDSCT5.2		CO2	Get familiar with the various differential operators and their properties.
MATDSCT5.2		CO3	Get acquainted with the various techniques of vector integration.
MATDSCT5.2		CO4	Learn the applications of vector calculus.
MATDSCT5.2		CO5	Recollect the fundamentals of Analytical Geometry in 3D.
MATDSCT5.2		CO6	Interpret the geometrical aspects of planes and lines in 3D

Department of MBA

1.1	Management and Organizational Behaviour	CO1	Present a thorough coverage of management theory, human behaviour, organizational behaviour and practice.
1.1		CO2	To appraise the students on the application oriented case studies on functions of management and behavioural processes
1.2	Managerial Accounting	CO1	To enable the students to obtain knowledge about the concepts of accounting principles, techniques of accounting and to introduce students to modern accounting software and IFRS.
1.2		CO2	The syllabus also contains the practical components of the subject which enable the students gain more practical knowledge under each module
1.3	Business Planning and Regulations	CO1	To acquaint students with general business law issues to help them become more informed, sensitive and effective business leaders
1.3		CO2	To understand the basic provisions of laws concerning incorporation and regulation of business organizations
1.3		CO3	To provide the students with an understanding of fundamental legal issues pertaining to the business world to enhance their ability to manage businesses
1.3		CO4	To focus on legal and statutory compliances
2.3		CO5	To develop the skills to interpret the laws and apply it to practical problems, affecting the operations of a business enterprise
1.4	Economics for Business Decisions	CO1	Have micro and macro-economic perspective to understand the under pinning of management.
1.4		CO2	Decisions
1.5	Business Statistics	CO1	To elevate students' awareness of data in everyday life and prepare them for a career in today's age of information. To develop statistical literacy skills in students in order to comprehend and practice statistical ideas to solve problems.
1.5		CO2	To promote the practice of the scientific method in our students: the ability to identify questions, collect evidence (data), discover and apply tools to interpret the data, and communicate and exchange results.
1.6	Marketing Management	CO1	The course will help the learner understand the basic concepts, tools and techniques relevant to marketing management and its application.
1.6		CO2	Student should be able to analyse basic marketing environment and marketing mix components. construct consumer profiles using understanding of buyer behaviour_ and develop marketing plans and strategies
1.7	Employability Skill Development — I	CO1	To impart employability skills with activities.
1.7		CO2	To bridge the gap between the skill requirements of the employer or industry and the competency of the students
2.1	Entrepreneurship and Start-up Management	CO1	To make the students aware of the importance of entrepreneurship opportunities <b>available in</b> the society for the entrepreneurs.
2.1		CO2	To acquaint them with challenges of starting new ventures and enable them to investigate, understand and internalize the process of setting up a business
2.2	Business Research Methods	CO1	To enable students acquire thought process in research,
2.2		CO2	To imprint <b>on them the</b> paradigm of research in business & to make them use research as base for decisions
2.3	Managing Human Resources	CO1	This course is designed for a systematic and comprehensive study about the various facets of Human Resource Management for students of Management. In this course, students will learn the basic concepts and frameworks of Human Resource Management (HRM). and understand the role played by HRM in
2.3		CO2	Students will also get a perspective of the problems associated with HRM <b>and their</b> causes.
2.4	Business Analytics	CO1	To introduce the business intelligence process that support the decision making in business operations.
2.4		CO2	To expose the students to analytics practices used in various verticals across industries and thereby educating students to develop basic analytical skills.
2.5	Financial Management	CO1	To enable a strong conceptual fundamentals for corporate finance and make the students comfortable and easy understanding of financial management and an overview of Indian and global scenario.
2.5		CO2	The syllabus also contains the practical components of the subject which enable the students gain more practical knowledge under each module



MBA

2.6	Production and Operations Research	CO1	To provide a formal quantitative approach to problem solving and an intuition about situations where such an approach is appropriate.
2.6		CO2	To introduce some widely-used mathematical models. The understanding of these models will allow the students derive solutions by logic demonstrated through numbers & equip them with techniques for finding solutions
2.7	Employability Skill Development --11	CO1	Become self-confident individuals by mastering communication skills, interpersonal skills, and IT skills.
2.7		CO2	Demonstrate an understanding of employability skills and will be able to prepare a structured resume, Handle group discussions and interviews effectively
3.1	MANAGEMENT AND BUSINESS ETHICS	CO1	To enlighten the students with the Concepts and Practical applications of Strategic Management and _Business Ethics
3.2.1	INVESTMENT ANALYSIS AND PORTFOLIO MANAGEMENT	CO1	To provide knowledge and skill in identifying various investment alternatives and choosing the suitable one.
3.2.1		CO2	To orient on the procedures and formalities involved in investing.
3.2.2	CORPORATE TAXATION FOR MANAGERS	CO1	To impart students with knowledge on tax, types of tax and their modalities.
3.2.2		CO2	indirect.
3.2.2		CO3	To orient the students on the procedures and formalities to be adhered, with regard to tax matters.
3.2.3	CORPORATE VALUATION AND FINANCIAL MODELLING	CO1	To facilitate understanding of corporate valuation techniques and restructuring activities in M&A
		CO2	To communicate to the students the role that M&A plays in the contemporary corporate world.
		CO3	advanced tools.
3.3.1	RURAL AND GREEN MARKETING	CO1	To understand the opportunities and challenges in rural and green marketing
		CO2	To identify and assess rural market potential for products and services
		CO3	To evaluate different marketing strategies used in rural and green marketing
3.3.2	BUSINESS AND SOCIAL MARKETING	CO1	To describe the applications, challenges and the dynamic environment of B2B marketing, including the unique nature of organizational buying behaviour.
		CO2	To apply the basic and advanced techniques for development of social marketing strategies and develop price, promotion and place strategies for a chosen social marketing issue.
3.3.3	CONSUMER BEHAVIOUR AND NEUROMARKETING	CO1	To understand personal, socio-cultural, and environmental dimensions that influence consumer decisions making.
		CO2	responses while incorporating risk, feelings and reasoning and apply this understanding into developing, communicating and delivering effective marketing offerings.
3.4.1	MANAGEMENT AND COMPETENCY MAPPING	CO1	students will be able to demonstrate knowledge and skills in the contemporary aspects of performance management and competency mapping and will be able to design the appropriate system in an organization
3.4.2	TALENT MANAGEMENT AND EMPLOYEE ENGAGEMENT	CO2	students will be able to feel committed to their organization's goals and values and motivated to contribute to organizational success, whilst at the same time enhancing their own sense of wellbeing
3.4.3	LEARNING AND DEVELOPMENT	CO1	organization.
		CO2	Implement different types of training methods depending upon the requirement of the organization
		CO3	organization
3.7.1	BUSINESS INTELLIGENCE	CO1	Understand and describe the fundamentals of business intelligence I
		CO2	decisions.
		CO3	Explain the issues and challenges associated with business intelligence
		CO4	Analyse the emerging trends in Business Intelligence
3.7.2	PREDICTIVE ANALYTICS USING R	CO1	data for model fitness and ETL process and to formulate and evaluate the prediction using regression, time series analysis, neural networks and decision tree model.

4.1	INTERNATIONAL BUSINESS	CO1	At the end of the course, student will learn project management design, development, and deployment by using project management tools, techniques, and skills, to understand the implications, challenges, and opportunities of organizational dynamics in project management.
4.2.1	PROJECT ANALYSIS AND MANAGEMENT	CO1	To know the project manager's roles and responsibilities and financial projections.
4.2.1		CO2	To understand project selection and criteria and feasibility analysis
4.2.1		CO3	To understand UNIDO approach for Social Cost Benefit analysis
4.2.2	INTERNATIONAL FINANCIAL MANAGEMENT	CO1	financial environment, currency system, relationship between economies and its impact on international transactions and understand functioning of international financial markets.
4.2.3	DERIVATIVES AND RISK MANAGEMENT	CO1	To provide the concepts and foundations of managing financial risk in business enterprises
4.2.3		CO2	To provide the concept of Derivatives, its types and how to minimise risk by using derivatives as a tool and acquaint the knowledge of Options and Futures using F&O for Hedging and the development position of Derivatives in India
4.3.1	SALES AND DISTRIBUTION MANAGEMENT AND RETAILING	CO1	To understand the services domain from a marketing perspective.
4.3.1		CO2	To understand retailing as a business and have a comprehensive view of the marketing and store management functions in a retailing organization
4.3.2	SERVICES MARKETING AND CUSTOMER RELATIONSHIP MANAGEMENT	CO1	Demonstrate integrative knowledge of marketing issues associated with service productivity, perceived quality, customer satisfaction and loyalty.
4.3.2		CO2	Develop blueprint for the services sector and develop a better appreciation of the necessary strategies to create a service excellence.
4.3.2		CO3	Recognise the challenges faced in services delivery as outlined in the services gap model. T
4.3.2		CO4	to use strategic customer acquisition and retention techniques in CRM.
4.3.3	INTEGRATED MARKETING COMMUNICATIONS AND DIGITAL MARKETING	CO1	At the end of the course students will be infused with an interest to build their career in the area of advertisement and related field and will understand the importance of internet marketing and start building their portfolio to get themselves eligible at an entry level in this emerging field
4.4.1	GLOBAL HRM	CO1	To sensitize the students to Global HRM policies and procedures and inculcate Global thinking in their learning process.
4.4.2	STRATEGIC HRM	CO1	Students will have a better understanding of the tools and techniques used by organizations to meet these challenge
4.4.3	INDUSTRIAL RELATIONS AND HR AUDIT	CO1	the student would learn basic knowledge of the Indian Industrial Relations System and its distinctive features. Also, students would learn the importance of HR Audit in Organisation

Department of Journalism

1.1	<b>INTRODUCTION TO JOURNALISM CONCEPTS AND PRACTICES</b>	CO1	To introduce concepts of mass communication in general and journalism in particular
1.1		CO2	To impart fundamentals of journalism, evolutionary process, basic concepts, practices and recent trends
1.1		CO3	To expose students to different facets of journalism
1.1		CO4	media
2.1	<b>COMPUTER APPLICATIONS FOR MEDIA</b>	CO1	To introduce students to the basics of computer
2.1		CO2	To familiarize the students to the applications of computers in print and electronic journalism
2.1		CO3	To facilitate the students to learn the practical applications of computers at different levels in media
2.1		CO4	To expose the students to the world of internet and its extensive use for interactivity
2.1		CO5	To familiarize the students with web based broadcasting
Open elective	<b>WRITING FOR MEDIA</b>	CO1	To make them familiar with writing for media and develop interest in writing
Open elective		CO2	Introduce the students to cultivating of sources.
Open elective		CO3	Equip the students with new trends in media writing
Open elective	<b>PHOTO JOIRNALISM</b>	CO1	To attract students towards journalism
Open elective		CO2	To familiarize students with the techniques of photography and photo joirnalism
Open elective		CO3	To give a practical knowledge in the field of photography.

BA

DSC3	News Reporting and A	CO1	Organize and articulate news stories. Understand the concepts, structure and types of news
DSC3		CO2	product, identify the basic ethical issues confronting editors and how they can practice fair play.
OE 3	<b>Feature Writing and Freelancing</b>	CO1	Organize and articulate feature stories understanding the concepts, structure, and types of features.
OE 3		CO2	Write different types of feature stories and get them published.
OE 3		CO3	The students should try their hand in freelance writing learning the ups and downs of freelancing
DSC4	<b>News Processing and Editing</b>	CO1	Understand the role of editors. Edit copy using correct grammar and right usage of words.
DSC4		CO2	Be able to write clear and accurate headlines, decks, and captions.
DSC4		CO3	editors
OE 4	<b>Translation for Media</b>	CO1	Translate the given stories keeping in mind the requirements of the client
OE 4		CO2	Understand the difference between translations for different media and practice it.
OE 4		CO3	Gain a mastery over the techniques of translation.
Department of Political Science			
DSC-1	Basic Concepts in Political Science	CO1	Understand the meaning and nature of Political Science.
DSC-1		CO2	Evaluate the meaning, elements, and various theories of State
DSC-1		CO3	Critically analyse the various concepts like Civil Society, Sovereignty, Liberty, and Equality.
DSC-1		CO4	Analyze the various approaches to the study of Political Science.
DSC-1		CO5	Understand and assess the concept of Power and Justice
DSC-2	Political Theory	CO1	Understand and analyze the nature, approaches, and relevance of political theory and be able to comprehend the difference between theory and political theory.
DSC-2		CO2	Understand and critically analyze the various liberal traditions through J S Mill, John Rawls, and Robert Nozick and apply it to understand the foundations of liberal democracy.
DSC-2		CO3	Able to comprehend contemporary political/social debates of Indian society.
DSC-2		CO4	Enables the students to understand and assess the western concepts and their practice and their implication on Indian social and political life.
DSC-2		CO5	Assesses and analyze the concept of secularism and able to understand the difference between Indian & Western Secularism.
OE-1	Human Rights	CO1	Understand the meaning, classification, and various generations of human rights.
OE-1		CO2	Understand the difference between Human rights and fundamental rights and critically analyze the commissions like NHRC & KSHRC on human rights.
OE-1		CO3	Evaluate the major issues of marginalized groups like Women, Children, Dalits, Minorities, and Persons with Disability.
OE-1		CO4	Understand the Universal Declaration of Human Rights
OE-1		CO5	Understand and compare western and eastern concepts of Human Rights
DSC-3	Western Political Thought	CO1	Understand the development of Greek political thought, Medieval political thought and the beginning of Modern political thought through Machiavelli.
DSC-3		CO2	Understand and analyze the social contract theory and liberal thoughts to comprehend the idea of sovereignty, democracy, and government.
DSC-3		CO3	truth and knowledge, theory of action, etc., and apply this knowledge to the empirical world
DSC-3		CO4	Understand, analyze and evaluate western political thought and philosophy.
DSC-3		CO5	Develop critical understanding and thinking.
DSC-4	Indian National Movements and Constitutional Developments	CO1	Examine the influence of various Acts of the British government on constitutional development in India.
DSC-4		CO2	Understand the Constitutional Assembly debate on State structure, Citizenship, Universal Adult Franchise, etc.
DSC-4		CO3	Evaluate the ideas and methods of Gandhi in Indian freedom struggle
DSC-4		CO4	movement.
DSC-5	INDIAN GOVERNMENT AND POLITICS	CO1	Learn how the governments both at the union as well state level operates and what are its challenges.
DSC-5		CO2	Understand the characteristics of power structures in India and the response of the political parties to the socio-political dynamics.
DSC-5		CO3	Measure and understand the effects of judicial decisions on policy making and social development in India.
DSC-6	Parliamentary Procedures in India	CO1	governments.
DSC-6		CO2	Learn about the privileges of people's representatives and match it with their performance.

DSC-6		CO3	Understand the working of committees, budgetary aspects and deliberative mechanism within the parliament.
Open Elective- OE-3.1	GENDER AND POLITICS	CO1	Answer how ideologies have shaped the women in politics
Open Elective- OE-3.1		CO2	Bring awareness of the relevance of gender issues in politics.
Open Elective- OE-3.1		CO3	Through discussions on women and governance understand the ground realities about politics in relation to women.
Open Elective- OE-3.3	CITIZEN, CITIZENSHIP AND THE INDIAN CONSTITUTION	CO1	Take part in social reconstruction as responsible individuals and will learn to develop own identities.
Open Elective- OE-3.3		CO2	Demonstrate pro-social behavior towards others, including those belonging to a different race, ethnicity, culture, colour, gender or nationality.
Open Elective- OE-3.3		CO3	Understand and appreciate rights and privacy of other fellow citizens.
DSC- 7	ANCIENT INDIAN POLITICAL IDEAS AND INSTITUTIONS	CO1	Reflection the native concepts like Dharma, Rajadharma, Nyaya, Viveka etc., in the light of their modern connotations.
DSC- 7		CO2	Understand the role of texts and stories in the Indian context by reflecting upon our own experiences.
DSC- 7		CO3	Revisit our own socio-political structures through the textual and non-textual sources from the early Indian period in order to quell the European representation of Indian Society and heritage.
DSC- 8	MODERN POLITICAL ANALYSIS	CO1	Understand the key concepts of Political Institutional working and science within them.
DSC- 8		CO2	Be familiar with the Phenomenon of politics and various explanations relating to the influences that mould the decision making process.
DSC- 8		CO3	Help the students to visualize the working of political institutions and the process of decision making through diagrammatic presentations.
Enhancement Compulsory Courses(AEC)	CONSTITUTION OF INDIA	CO1	Understand the philosophy of the Constitution and its structure.
		CO2	Measure the powers and functions of various offices under the Constitution.
		CO3	Appreciate the role of Constitution in a Democracy
POLC9	International Relations-Basic Concepts	CO1	Be in apposition describe National interest, National power and the significance of sovereign
POLC9		CO2	The students will get the basic knowledge of the practical political world, including the operating institutions, processes, and policies.
POLC9		CO3	The students will be in opposition to describe the nuances of balance of power, collective security and diplomacy.
POLC10	Comparative Government and Politics	CO1	Grasp and understand the working of constitutional systems of these countries.
POLC10		CO2	Compare and evaluate the working of the governments concerned
POLC10		CO3	Understand and explain different forms of executive and their functioning
POLC11	Karnataka Government and Politics	CO1	Understand the social and political conditions of Mysore under colonial rule.
POLC11		CO2	Develop perspective s on the important persons and organizations that were involved in the process of unification.
POLC11		CO3	Analyse the issues related to regionalism, polarisation, identity politics, water, language, and border issues.
POLC13	International Relations-Theoretical Aspects	CO1	Make presentations on theories identifying them with examples, which are both critical and reflective in a live engaging class.
POLC13		CO2	Explain theories by relating them to contemporary events across the globe.
POLC13		CO3	Interpret world affairs in the light of theories which will serve as a key intellectual tool for them explains the events with rational basis.
POLC15	Public Policy Analysis	CO1	Know the constitutional and legal positions of policy making.
POLC15		CO2	implementation.
POLC15		CO3	involved in it.
POLC16	Modern Indian Political Thinkers	CO1	System.
POLC16		CO2	Understand the different shades of political ideas in Modern India.
POLC16		CO3	the Country

**Department of Psychology**

	DSC -1	Understanding Sociology	CO1	Understand the nature and role of Sociology in a changing world
	DSC -1		CO2	world .
	DSC -1		CO3	Recognise different perspectives of perceiving the workings of social groups .
	DSC -1		CO4	Differentiate between sociology's two purposes - science and social reform
	DSC -1		CO5	Express one's understanding of current social issues in oral and written forms

	DSC -2	Changing Social Institutions in India	CO1	Identify the new forms taken by institutions of family and marriage
	DSC -2		CO2	Understand the role played by religion in modern world
	DSC -2		CO3	Sensitise the students to the conflicting norms of secularism and living by one's religious beliefs
	DSC -2		CO4	to all
	DSC -2		CO5	Recognise the social nature of economy and work
	DSC -2		CO6	Grasp the opportunities offered by democracy and the threats it faces
	DSC -2		CO7	Undertake micro research work and communicate effectively
	DSC -3		Foundations of Sociological Theory	CO1
	DSC -3	CO2		Appreciate the contemporaneity of classical sociological thought
	DSC -3	CO3		Appreciate the need for thinking in theoretical terms and concepts
	DSC -3	CO4		Demonstrate Basic Understanding of Theory and Research
	DSC -4	Sociology of Rural Life in India	CO1	Understand the myths and realities of village India constructed by Western scholars
	DSC -4		CO2	Understand the changes in land tenure systems and consequences
	DSC -4		CO3	Appreciate the role of traditional social institutions and how they have responded to forces of change
	DSC -4		CO4	Make an informed analysis of various development programmes and challenges encountered
	DSCC-9	Social Entrepreneurship	CO1	Provide knowledge about social entrepreneurship
	DSCC-9		CO2	To help them to start their own social enterprise or NPO
	DSCC-9		CO3	Understand the scope and need for social entrepreneurship
	DSCC-9		CO4	Plan and implement socially innovative ideas in the areas of entrepreneurship
	DSCC-10	Society and Tribes	CO1	Gain basic knowledge about social organisation of tribals
	DSCC-10		CO2	Critically understand the implications of changes occurring in tribal life
	DSCC-10		CO3	Undertake micro research work
	DSCC-10		CO4	Assess the impact of social changes on tribal social life
	DSCC-11	Statistics in Sociological Research	CO1	Introduction to sociological research and methods
	DSCC-11		CO2	To familiarise the students with the process of research .
	DSCC-11		CO3	General introduction to statistical techniques for analysing social science data
	DSCC-12	Sociological Perspectives	CO1	Understand major Sociological theoretical approaches
	DSCC-12		CO2	Compare and contrast the different theoretical perspectives
	DSCC-12		CO3	Appreciate the significance of major Sociological theories
	DSCC-12		CO4	Able to use fundamental theoretical categories
	DSCC-13	Sociology of Health	CO1	Understand the concept of health, illness and social conditions
	DSCC-13		CO2	Analyze the inter-relationship between social factors and health status
	DSCC-13		CO3	Understand the role of doctors, nurse, pharmaceutical industry and social institutions in maintaining and promoting human health
	DSCC-13		CO4	Distinguish between health, well-being, illness and disease
	DSCC-13		CO5	analyze the role of pharmaceutical industry and hospitals critically.

Department of B.Sc. Biotechnology				
	<b>DSC-T1BTC101</b>	<b>Cell Biology and Genetics</b>	CO1	To learn the Journey of a cell - cell theory, cell division and cell death
			CO2	To study the description of cell organelles and their functions
			CO3	Genetics
			CO4	To gain knowledge on deviations in concepts of genetics
			CO5	cytoplasmic
	<b>DSC-T1BTC102</b>	<b>Cell Biology</b>	CO1	They learn about principle and application of analytical instruments
			CO2	Principle and evaluation of Sterilization techniques using different instruments
			CO3	microorganisms
			CO4	Differentiating the strains of microorganisms using staining techniques. Evaluating the drinking efficiency of water with MPN test
	<b>BTC-201</b>		CO1	Acquire knowledge about types of biomolecules, structure, and their functions

B.Sc. Biotechnology	<b>BTC:501 DCS -3T</b>	<b>Biomolecules</b>	CO2	Will be able to demonstrate the skills to perform bioanalytical techniques
			CO3	Apply comprehensive innovations and skills of biomolecules to biotechnology field
	<b>BTC:104, DCS -4T</b>	<b>Molecular Biology</b>	CO1	Study the advancements in molecular biology with latest trends
			CO2	Will acquire the knowledge of structure, functional relationship of proteins and nucleic acids
			CO3	Aware about the basic cellular processes such as transcription, translation, DNA replication and repair mechanisms
	<b>BTP 501</b>	<b>Environmental Biotechnology and Immunotechnology</b>	CO1	Sources of Energy and Biofertilizers
			CO2	Biopesticides and Bioremediation
			CO3	Antigen types and Antigen antibody reactions
			CO4	Complement system, Organ transplantation
			CO5	Vaccines and Immunization
	<b>BTT 601</b>	<b>Plant Biotechnology</b>	CO1	To understand the basics of various invitro methods in plant biotechnology
			CO2	To learn the techniques involved in production of somatic hybrids
			CO3	To identify the haploid plant production methods and its significance
			CO4	To study the soma clonal variants and their applications
			CO5	Rights
MSc	BTH 201	BIOCHEMICAL TECHNIQUES AND ENZYMOLGY	CO1	<b>To understand the physical techniques</b>
			CO2	<b>To study the principle and applications of various chromatographic and electrophoretic techniques</b>
			CO3	<b>To understand the Enzyme catalysis mechanism and its kinetics</b>
			CO4	<b>To study the structure and mechanism of co-enzymes</b>
<b>Departmnt of B.Sc. Genetics</b>				
BSc Genetics	<b>DSCC5GEN T1</b>	<b>Principles of Genetics</b>	CO1	Historical overview and laws Inheritance
			CO2	Understand Mendel's principles and deviations
			CO3	Genetics
			CO4	Gene interaction and their out come through gene mapping
	<b>DSCC5GEN T2,</b>	<b>Bioinstrumentation and Animal Cell Culture</b>	CO1	Understand the basic principles of different laboratory equipments
			CO2	Know the uses of the analytical equipments in various biological applications
			CO3	Understand the cell lines and culture media and cell culture methods
	<b>DSCC5GEN T3</b>	<b>Biomolecules and Molecular Genetics</b>	CO1	Describe the structure and function of biomolecules
			CO2	Appreciate and illustrate the chemical composition of the genetic material and its replication
			CO3	Describe the process of gene expression in prokaryotes and eukaryotes
			CO4	Explain the concept of transposition, mutation and DNA repair mechanism
	<b>DSCC5GENP 4</b>	<b>Human Genetics and Genetic Counselling</b>	CO1	Understand the nomenclature of Human chromosome and chromosomal inheritance pattern
			CO2	Understand cells of immune system, structure of immunoglobulin and role of MHC in transplantation
			CO3	disease
			CO4	Appreciate Genetic counselling and steps involved in it
	<b>GNT-501</b>	<b>Recombinant DNA Technology</b>	CO1	Application and Importance of Molecular methods in construction of recombinant gene and production of transgenic organisms
			CO2	Provide the knowledge on application of recombinant DNA technology in the field of agriculture, environment and biomedical
			CO3	Explains the methods of cloning, genetic manipulation and their application in genetic analysis
			CO4	Understand preparation of different types of Animal and plant Vectors
			CO5	Understand the application of RDT in Human welfare
<b>GNT-601</b>	<b>Developmental, Evolutionary and Biometrical Genetics</b>	CO1	Understand the role of plant and animal developmental Genetics with examples	
		CO2	Explains the basics of quantitative characters and inheritance in evolutionary, population genetics	
		CO3	Understand the analysis of Population Genetics	
		CO4	UnderstandVariances in polygenic traits	
		CO5	To understand the reatures, applicatrons and types of Intellectual Property Rights	