Program	CourseCode	CourseName	COCode	CO
B.COM	BCOM1.1 (NEP)		CO3	Understand in details with application, if applicable, CONSIGNMENT ACCOUNTING
B.COM	BCOM1.1		CO4	Identify in details with examples SOLE PROPRIETORS ACCOUNTS
B.COM	BCOM1.1		CO5	Learn in details with examples EMERGING TRENDS IN ACCOUNTS
B.COM	BCOM1.1		CO1	Write down in details with application, if applicable, THEORETICAL FRAMEWORK OF FINANCIAL ACCOUNTING
B.COM	BCOM1.1		CO2	Deliberate in details with examples ROYALTY ACCOUNTS
B.COM	BCOM1.2 (NEP)		CO1	Deliberate in depth BASICS OF MANAGEMENT
B.COM	BCOM1.2	MANAGEMENT PRINCIPLES AND APPLICATIONS	CO2	Learn in details with application, if applicable, PLANNING
B.COM	BCOM1.2		CO3	Deliberate the characteristics of ORAGANIZING
B.COM	BCOM1.2		CO4	Learn in details with application, if applicable, STAFFING AND LEADERSHIP
B.COM	BCOM1.2		CO5	Identify in depth CONTROLLING AND LEADERSHIP
B.COM	BCOM1.3 (NEP)		CO1	Learn the classification and characteristics of introduction to MARKETING
B.COM	BCOM1.3		CO2	Specify in details with application, if applicable, CONSUMER BEHAVIOUR AND MARKET SEGMENTATION
B.COM	BCOM1.3	PRINCIPLES OF MARKETING	CO3	Understand the characteristics of PRODUCT AND PRICING
B.COM	BCOM1.3		CO4	Identify in depth introduction to PROMOTION AND DISTRIBUTION
B.COM	BCOM1.3		CO5	Identify in details with examples RECENT DEVELOPMENTS IN MARKETING
B.COM	BCOM2.1 (NEP)		CO2	UNIT 2 Details with practical sums of HIRE PURCHASE
B.COM	BCOM2.1		CO3	UNIT 3 practical sums on DEPARTMENTAL ACCOUNTS
B.COM	BCOM2.1	ADVANCED FINANCIAL ACCOUNTING	CO4	UNIT 4 practical sums on BRANCH ACCOUNTS
B.COM	BCOM2.1		CO5	UNIT 5 practical sums on SINGLE ENTRY INTO DOUBLE ENTRY BOOK KEEPING
B.COM	BCOM2.1		CO1	UNIT 1 Details with examples of INSURANCE CLAIMS OF CLOSING STOCK
B.COM	BCOM2.2 (NEP)		CO1	UNIT 1 to understand the concepts of NUMBER SYSTEM, INDICES AND ALGORITHMS
B.COM	BCOM2.2		CO2	UNIT 2 to understand the details of THEORY OF EQUATIONS
B.COM	BCOM2.2	BUSINESS MATHEMATICS	CO3	UNIT 3 to understand the details of PROGRESSIONS
B.COM	BCOM2.2		CO4	UNIT 4 to understand the elements of FINANCIAL MATHEMATICS
B.COM	BCOM2.2		CO5	UNIT 5 to understand the MATRICES AND DETERMINATNTS
B.COM	BCOM2.2 (NEP)		CO2	TO UNDERSTAND ABOUT COMPANIES
B.COM	BCOM2.2		CO4	Write down in depth OF FORMATION OF COMPANIES
B.COM	BCOM2.2	CORPORATE ADMINISTRATION	CO5	Identify in depth ABOUT COMPANY ADMINISTRATION
B.COM	BCOM2.2		CO3	Write down in depth ABOUT CORPORATE MEETINGS
B.COM	BCOM2.2		CO1	Write down in details with application, if applicable, WINDING UP OF COMPANIES
B.COM	BCOM2.3 (NEP)		CO1	Specify the characteristics of INTRODUCTION TO BANKING
B.COM	BCOM2.3		CO2	Identify the details of PAYING AND COLLECTING BANKER
B.COM	BCOM2.3	LAW AND PRACTICES OF BANKING	CO3	Write down in details with application, if applicable, CUSTOMER AND ACCOUNT HOLDERS
B.COM	BCOM2.3		CO4	Write down in depth ABOUT NEGOTIABLE INSTRUMENTS
B.COM	BCOM2.3		CO5	Specify in details with application, if applicable, RECENT DEVELOPMENTS IN BANKING
B.COM	C0211 (CBCS)		CO1	Learn in details with examples UNDERWRITING OF SHARES
B.COM	C0211		CO2	Specify in depth of REDEMPTION OF PREFERENCE SHARES
B.COM	C0211	CORPORATE ACCOUNTING	CO3	Specify in depth of GOODWILL
B.COM	C0211		CO4	Identify the characteristics of VALUATION OF SHARES
B.COM	C0211		CO5	Learn in depth COMPANY FINAL ACCOUNTS

B.COM	C0221 (CBCS)	FINANCIAL MGT	CO1	Specify in depth INTRODUCTION FINANCIAL MANAGEMENT
B.COM	C0221		CO2	Deliberate in depth TIME VALUE OF MONEY
B.COM	C0221		CO3	Deliberate in depth of DIVIDEND DECISION
B.COM	C0221		CO4	Write down in depth FINANCING DECISION
B.COM	C0221		CO5	Deliberate in details with examples FINANCING DECISION
B.COM	C0221		CO6	Write down in depth WORKING CAPITAL MANAGEMENT
B.COM	C0231 (CBCS)	BUSINESS REGULATIONS	CO1	Specify the characteristics of CONTRACT LAWS
B.COM	C0231		CO2	Identify the characteristics of COMPETITION AND CONSUMER LAWS
B.COM	C0231		CO3	Learn the classification and characteristics of ECONOMIC LAWS
B.COM	C0231		CO4	Specify in details with examples ENVIRONMENTAL LAWS
B.COM	C0231		CO5	Specify in depth INTRODUCTION TO BUSINESS LAWS
B.COM	C0241 (CBCS)	BUSINESS DATA ANALYSIS	CO1	Identify in details with application, if applicable, TABULATION
B.COM	C0241		CO2	Identify in details with examples UNIT 2 MEASURES OF CENTRAL TENDENCY
B.COM	C0241		CO3	Specify the details of UNIT 3 MEASURES OF DISPERSION
B.COM	C0241		CO4	Identify in details with examples UNIT 4 CORRELATION AND REGRESSION
B.COM	C0241		CO5	Write down in details with examples UNIT 5 PROBABILITY
B.COM	D0211 (CBCS)	ADVANCED CORPORATE ACCOUNTING	CO1	Learn the classification and characteristics of REDEMPTION OF PREFERENCE SHARES
B.COM	D0211		CO2	Specify the characteristics of MERGERS AND ACQUISITION OF COMPANIES
B.COM	D0211		CO3	Learn in details with examples INTERNAL RECONSTRUCTION
B.COM	D0211		CO4	Identify in details with examples LIQUIDATION OF COMPANIES
B.COM	D0211		CO5	Deliberate the details of RECENT DEVELOPMENTS IN ACCOUNTING

B.COM	D0221 (CBCS)		CO1	Deliberate the details of introduction to cost accounting
B.COM	D0221		CO2	Learn in details with application, if applicable, MATERIAL COST CONTROL
B.COM	D0221	COST ACCOUNTING	CO5	Specify the details of RECONCILIATION OF COST AND FINANCIAL ACCOUNTS
B.COM	D0221		CO3	Specify in details with examples LABOUR COST CONTROL
B.COM	D0221		CO4	Understand in depth OVERHEAD COST CONTROL
B.COM	D0231 (CBCS)		CO1	Understand the details of E-BUSINESS
B.COM	D0231		CO2	Specify the details of HARDWARE AND SOFTWARE FOR E-BUSINESS
B.COM	D0231	E BUSINESS AND ACCOUNTING	CO3	Deliberate in depth GETTING STARTED WITH TALLY
B.COM	D0231		CO4	Understand in depth CONFIGURING TALLY
B.COM	D0231		CO5	Write down the classification and characteristics of REPORTS IN TALLY:
B.COM	D0241 (CBCS)		CO1	Identify in details with examples introduction to goods and service tax
B.COM	D0241		CO2	Understand in depth goods and service tax act
B.COM	D0241	GOODS AND SERVICE TAX	CO3	Deliberate the characteristics of procedure and levy under goods and service tax
B.COM	D0241		CO4	Understand in depth assessment and returns
B.COM	D0241		CO5	Learn in details with examples GST and technology
B.COM	E0211 (CBCS)		CO1	Understand and compute different types of Residential status of individual
B.COM	E0211		CO2	Understand the classification and characteristics of Computation of taxable income from salary
B.COM	E0211	INCOME TAX-I	CO3	Understand the characteristics of Computation of taxable income from House property
B.COM	E0211		CO4	Understand the concept of Capital and Revenue under Income tax law
B.COM	E0221 (CBCS)		CO1	Understand in details with examples INTRODUCTION TO AUDITING
B.COM	E0221		CO2	Learn the characteristics of IINTERNAL CONTROL
B.COM	E0221	AUDITING AND CORPORATE GOVERNANCE	CO3	Specify in depth VOUCHING
B.COM	E0221		CO4	Specify the characteristics of VERIFICATION AND VALUATION OF ASSETS AND LIABILITIES
B.COM	E0221		CO5	Identify in details with examples AUDIT OF LIMITED COMPANIES AND OTHERS
B.COM	E0231 (CBCS)		CO1	Identify in details with examples UNIT 1: ACCOUNTS OF BANKING COMPANIES
B.COM	E0231		CO2	Understand in details with application, if applicable, UNIT 2: ACCOUNTS OF INSURANCE COMPANIES
B.COM	E0231	ADVANCED ACCOUNTING	CO3	Write down in depth UNIT 3: ESOP
B.COM	E0231		CO4	Understand the details of UNIT 4: FARM ACCOUNTING
B.COM	E0231		CO5	Write down the characteristics of UNIT 5: INVESTMENT ACCOUNTING
B.COM	E0321 (CBCS)		CO1	Specify in details with application, if applicable, LABOUR COST
B.COM	E0321		CO2	Specify the classification and characteristics of CONTRACT COSTING
B.COM	E0321	METHODS AND TECHNIQUES OF COST ACCOUNTING	CO3	Understand in details with examples Presentation of OPERATING COSTING
B.COM	E0321		CO4	Learn in depth Accounts of Groups: PROCESS COSTING

B.COM	E0331 (CBCS)	ADVANCED FINANCIAL MANAGEMENT	CO1	Identify in details with examples UNIT 1: TOOLS OF FINANCE
B.COM	E0331		CO2	Understand in details with application, if applicable, UNIT 2: VALUE BASED MANAGEMENT
B.COM	E0331		CO3	Write down in depth UNIT 3: CORPORATE RESTRUTCTURING-1
B.COM	E0331		CO4	Understand the details of UNIT 4: CORPORATE RESTRUTCTURING-1
B.COM	E0331		CO5	Write down the characteristics of UNIT 5: CORPORATE VALUATION
B.COM	E0341 (CBCS)	FINANCIAL SERVICES	CO1	Understand in details with application, if applicable, UNIT 1: OVERVIEW OF FINANCIAL SERVICES
B.COM	E0341		CO2	Write down in depth UNIT 2: FUND BASED SERVICES
B.COM	E0341		CO3	Understand the details of UNIT 3: FUND BASED SERVICES -2
B.COM	E0341		CO4	Write down the characteristics of UNIT 4: FEES BASED SERVICES-1
B.COM	E0341		CO5	Write down the characteristics of UNIT 5: FEES BASED SERVICES-2
B.COM	F0351 (CBCS)	INCOME TAX-II	CO1	Understand in depth UNIT 1 : PROFITS AND GAINS OF BUSINESS AND PROFESSION
B.COM	F0351		CO2	Specify the classification and characteristics of UNIT 2 : CAPITAL GAINS
B.COM	F0351		CO3	Learn in details with examples UNIT 3 : INCOME FROM OTHER SOURCES
B.COM	F0351		CO4	Specify the details of UNIT 4 : DEDUCTIONS TO GTI
B.COM	F0351		CO5	Write down in details with examples UNIT 5 : SET OFF AND CARRYFORWARD OF LOSSES
B.COM	F0361 (CBCS)	IND AS AND IFRS	CO1	Write down in depth ACC STDS
B.COM	F0361		CO5	Understand the details of FINANCIAL STATEMENTS
B.COM	F0361		CO2	Understand the details of PROVISIONS UNDER IND AS
B.COM	F0361		CO3	Write down in depth OF PROVISIONS UNDER IND AS -2
B.COM	F0361		CO4	Learn in depth OF CONSOLIDATED FINANCIAL STATEMENTS
B.COM	F0371 (CBCS)	MANAGEMENT ACCOUNTING	CO2	Specify the characteristics OF INTRODUCTION TO MGT ACC.
B.COM	F0371		CO3	Identify the characteristics of RATIO ANALYSIS
B.COM	F0371		CO4	Learn the classification and characteristics of CASHFLOW ANALYSIS
B.COM	F0371		CO5	Specify in details with examples OF MARGINAL COSTING
B.COM	F0371		CO1	Specify in depth OF BUDGETORY CONTROL
B.COM	F0381 (CBCS)	ACCOUNTING FOR GOVERNMENT AND LOCAL BODIES	CO1	Understand in details with examples OF GOVERNMENT ACCOUNTING
B.COM	F0381		CO2	Learn the characteristics of BUDGET AND FINANCE
B.COM	F0381		CO3	Specify in depth of ACCOUNTING FOR RURAL GOVERNMENTS
B.COM	F0381		CO4	Specify the characteristics of URBAN LOCAL GOVERNMENTS
B.COM	F0381		CO5	Identify in details with examples OF AUDIT OF GOVERNMENT BODIES

B.COM	F0391 (CBCS)	INTERNATIONAL FINANCE	CO1	Deliberate the classification and characteristics of GLOBAL FINANCE
B.COM	F0391		CO2	Deliberate the details of INT FINANCE DECISIONS
B.COM	F0391		CO3	Write down in details with examples of EXCHANGE RATE
B.COM	F0391		CO4	Learn in details with examples of RISK HEDGING AND STRATEGIES
B.COM	F0401 (CBCS)	SECURITIES ANALYSIS AND PORTFOLIO MANAGEMENT	CO1	Learn in details with application, if applicable, BASICS OF INVESTMENT
B.COM	F0401		CO2	Learn the characteristics of INVESTMENT ALTERNATIVES
B.COM	F0401		CO3	Deliberate in details with examples STOCK SELECTION AND CONSTRUCTION
B.COM	F0401		CO4	Understand the classification and characteristics of BONDS
B.COM	F0401		CO5	Learn in details with application, if applicable, MUTUAL FUNDS

MCOM	1.1	GLOBAL BUSINESS ENVIRONMENT	CO1	Learn in details with application, if applicable, GLOBAL BUSINESS ENVIRONMENT
MCOM			CO2	Learn the characteristics of GLOBAL ECONOMIC ENVIRONMENT
MCOM			CO3	Deliberate in details with examples GLOBAL TRADE AND INVESTMENT
MCOM			CO4	Understand the classification and characteristics of MULTINATIONAL CORPORATION
MCOM			CO5	Learn in details with application, if applicable, SOCIAL ETHICS
MCOM	1.2	MONETORY SYSTEM	CO1	Learn in details with application, if applicable, MONEY
MCOM			CO2	Learn the characteristics of MONETORY STANDARDS
MCOM			CO3	Deliberate in details with examples INTERNATIONAL MONETORY SYSTEM
MCOM			CO4	Understand the classification and characteristics of INTERNATIONAL FINANCIAL SYSTEM
MCOM			CO5	Learn in details with application, if applicable, BALANCE OF PAYMENT AND TRADE
MCOM	1.3	PRINCIPLES OF BUSINESS DECISIONS	CO1	Learn in details with application, if applicable, ECONOMICS
MCOM			CO2	Learn the characteristics of PUBLIC FINANCIAL POLICY
MCOM			CO3	Deliberate in details with examples of PRODUCTION THEORY
MCOM			CO4	Deliberate in details with examples of strategies
MCOM			CO5	Learn in details with application, if applicable, DEMAND ANALYSIS
MCOM	1.4	TECHNOLOGY IN BUSINESS	CO1	Learn in details with application, if applicable, E-COMMERCE
MCOM			CO2	Learn the characteristics of HARDWARE AND SOFTWARE OF E BUSINESS
MCOM			CO3	Deliberate in details with examples of privacy and technology
MCOM			CO4	Deliberate in details with examples of IT ACT 2005
MCOM			CO5	Learn in details with application, if applicable, EDI
MCOM	1.5	ADVANCED FINANCIAL MANAGEMENT AND PRACTICES	CO1	Learn in details with application, if applicable, FINANCE
MCOM			CO2	Learn the characteristics of INVESTMENT DECISIONS
MCOM			CO3	Deliberate in details with examples of RISK ANALYSIS AND CAPITAL BUDGET
MCOM			CO4	Deliberate in details with examples of CORPORATE RESTRUCTURING
MCOM			CO5	Learn in details with application, if applicable, DIVIDEND AND WORKING CAPITAL DECISIONS
MCOM	1.6	KNOWLEDGE MANAGEMENT AND INNOVATION	CO1	Learn in details with application, if applicable, INTRODUCTION
MCOM			CO2	Learn the characteristics of LEARNING THEORIES
MCOM			CO3	Deliberate in details with examples of SOCIAL NATURE OF KNOWLEDGE
MCOM			CO4	Deliberate in details with examples of KNOWLEDGE MANAGEMENT STRATEGIES
MCOM			CO5	Learn in details with application, if applicable, LEARNING ORGANIZATION
MCOM	1.7	BUSINESS MODELS FOR STARTUPS	CO1	Learn in details with application, if applicable, INTRODUCTION
MCOM			CO2	Learn the characteristics of STARTUP INDIA
MCOM			CO3	Deliberate in details with examples of BUSINESS PLAN
MCOM			CO4	Deliberate in details with examples of BUSINESS MODELS
MCOM			CO5	Learn in details with application, if applicable, RISK IN BUSINESS MODELS
MCOM	2.1	CONTEMPORARY INDIAN BANKING	CO1	Learn in details with application, if applicable, INTRODUCTION
MCOM			CO2	Learn the characteristics of RBI
MCOM			CO3	Deliberate in details with examples of NPA
MCOM			CO4	Deliberate in details with examples of BASEL NORMS

MCOM			CO5 Learn in details with application, if applicable, ASSET LIABILITY MANAGEMENT	
MCOM	2.2	RISK MANAGEMENT AND DERIVATIVES	CO1 Learn in details with application, if applicable, INTRODUCTION	
MCOM			CO2 Learn the characteristics of CREDIT RISK MANAGEMENT	
MCOM			CO3 Deliberate in details with examples of MARKET RISK AND OPERATIONS RISK	
MCOM			CO4 Deliberate in details with examples of DERIVATIVES	
MCOM			CO5 Learn in details with application, if applicable, FUTURES OPTIONS	
MCOM	2.3	ADVANCED RESEARCH METHODOLOGY	CO1 Learn in details with application, if applicable, INTRODUCTION	
MCOM			CO2 Learn the characteristics of RESEARCH TOPIC AND DESIGN	
MCOM			CO3 Deliberate in details with examples of SACALES OF MEASUREMENT	
MCOM			CO4 Deliberate in details with examples of SAMPLING AND HYPOTHESIS	
MCOM			CO5 Learn in details with application, if applicable, STATISTICAL TESTS AND SOFTWARES	

MCOM	2.4		CO1	
MCOM				Learn in details with application, if applicable, INTRODUCTION
MCOM			CO2	
MCOM				Learn the characteristics of DIGITAL MARKETING ENVIRONMENT
MCOM		DIGITAL MARKETING	CO3	
MCOM				Deliberate in details with examples of RESEARCH AND ENVIRONMENT
MCOM			CO4	
MCOM				Deliberate in details with examples of CUSTOMER ACQUISITION
MCOM			CO5	
MCOM				Learn in details with application, if applicable, EMERGING ISSUES
MCOM	2.5		CO1	
MCOM				Learn in details with application, if applicable, ENTREPRENUERSHIP
MCOM			CO2	
MCOM		VENTURE CREATION AND DEVELOPMENT		Learn the characteristics of ED
MCOM			CO3	
MCOM				Deliberate in details with examples of NEW VENTURE
MCOM			CO4	
MCOM				Deliberate in details with examples of FINANCING VENTURE
MCOM			CO5	
MCOM				Learn in details with application, if applicable, ISSUES OF VENTURES
MCOM	2.6		CO1	
MCOM				Learn in details with application, if applicable, INTRODUCTION
MCOM			CO2	
MCOM		INDIAN ETHOS AND LEADERSHIP		Learn the characteristics of WORK ETHOS AND VALUES
MCOM			CO3	
MCOM				Deliberate in details with examples of LEADERSHIP
MCOM			CO4	
MCOM				Deliberate in details with examples of LEADERSHIP DEVELOPMENT
MCOM			CO5	
MCOM				Learn in details with application, if applicable, STRESS MANAGEMENT
MCOM	2.7		CO1	
MCOM				Learn in details with application, if applicable, INTRODUCTION
MCOM			CO2	
MCOM		FINANCILA MODELING FOR BUSINESS		Learn the characteristics of BUILDING FINANCIAL MODELS
MCOM			CO3	
MCOM				Deliberate in details with examples of FOR STARTUPS
MCOM			CO4	
MCOM				Deliberate in details with examples of INCUBATION SUPPORT
MCOM			CO5	Learn in details with application, if applicable, CASE STUDY ON FINANCIAL MODELING
MCOM	3.1		CO1	
MCOM				Learn in details with application, if applicable, INTRODUCTION
MCOM			CO2	
MCOM		INTELACTUAL PROPERTY RIGHTS		Learn the characteristics of REGISTRATION AND LAWS OF IPS
MCOM			CO3	
MCOM				Deliberate in details with examples of PATENTS AND COPY RIGHTS
MCOM			CO4	
MCOM				Deliberate in details with examples of TRADEMARKS
MCOM			CO5	
MCOM				Learn in details with application, if applicable, DESIGNS AND GI
MCOM	3.2		CO1	
MCOM				Learn in details with application, if applicable, INTRODUCTION
MCOM			CO2	
MCOM		TRADE LOGISTICS AND SCM		Learn the characteristics of SUPPLY CHAIN MANAGEMENT
MCOM			CO3	
MCOM				Deliberate in details with examples of LOGISTICS AND SCM
MCOM			CO4	
MCOM				Deliberate in details with examples of WAREHOUSING
MCOM			CO5	
MCOM				Learn in details with application, if applicable, SCM ADMIN
MCOM	3.3		CO1	
MCOM				Learn in details with application, if applicable, BUSINESS REPORTING
MCOM			CO2	
MCOM		BUSINSS REPORTING AND MODELS (ACCOUNTS)		Learn the characteristics of PRESENTATION AND DISCLOSURE
MCOM			CO3	Deliberate in details with examples of FINANCIAL REPORTING AND INSTITUTIONS
MCOM			CO4	
MCOM				Deliberate in details with examples of RECENT TRENDS
MCOM			CO5	
MCOM				Learn in details with application, if applicable, DEVELOPMENTS
MCOM	3.4		CO1	
MCOM				Learn in details with application, if applicable, COSTING STRATEGY
MCOM			CO2	
MCOM		STRATEGIC COST MANAGEMENT		Learn the characteristics of ABC
MCOM			CO3	
MCOM				Deliberate in details with examples of LIFE CYCLE COSTING
MCOM			CO4	
MCOM				Deliberate in details with examples of JIT
MCOM			CO5	
MCOM				Learn in details with application, if applicable, STRATEGIC COST

			CO	
MCOM	3.5	CORPORATE TAX PLANNING	CO1	Learn in details with application, if applicable, CORPORATE INCOME TAX
MCOM			CO2	Learn the characteristics of TAX PLANNING
MCOM			CO3	Deliberate in details with examples of FINANCIAL MANAGEMENT DECISIONS
MCOM			CO4	Deliberate in details with examples of MANAGERIAL DECISIONS
MCOM			CO5	Learn in details with application, if applicable, TAX PAYMENTS
MCOM	3.6	FINANCIAL MARKETS AND SERVICES (FINANCE)	CO1	Learn in details with application, if applicable, PRIMARY MARKET
MCOM			CO2	Learn the characteristics of SECONDARY MARKET
MCOM			CO3	Deliberate in details with examples of FINANCIAL SERVICES
MCOM			CO4	Deliberate in details with examples of MUTUAL FUNDS
MCOM			CO5	Learn in details with application, if applicable, SEBI DEMAT
MCOM	3.7	FINANCIAL PLANNING AND INVESTMENT	CO1	Learn in details with application, if applicable, FINANCIAL PLANNING
MCOM			CO2	Learn the characteristics of INVESTMENT AVENUES
MCOM			CO3	Deliberate in details with examples of BUILDING FINANCIAL PLANS
MCOM			CO4	Deliberate in details with examples of RETIREMENT BENEFITS
MCOM			CO5	Learn in details with application, if applicable, FINANCIAL PLANNER
MCOM	3.8	INNOVATIONS IN BANKING AND TECH	CO1	Learn in details with application, if applicable, INTRODUCTION TO BANKS
MCOM			CO2	Learn the characteristics of CORE BANKING
MCOM			CO3	Deliberate in details with examples of COGNITIVE BANKING
MCOM			CO4	Deliberate in details with examples of TECH IN BANKING
MCOM			CO5	Learn in details with application, if applicable, FRAUDS IN BANKING
MCOM	4.1	ANALYTICS IN COMMERCE AND BUSINESS	CO1	Learn in details with application, if applicable, INTRODUCTION
MCOM			CO2	Learn the characteristics of FINANCE ANALYSIS
MCOM			CO3	Deliberate in details with examples of MARKETING ANALYSIS
MCOM			CO4	Deliberate in details with examples of HR ANALYTICS
MCOM			CO5	Learn in details with application, if applicable, CRM ANALYTICS
MCOM	4.2	FORENSIC ACCOUNTING AND AUDITING	CO1	Learn in details with application, if applicable, FORENSIC ACCOUNTING
MCOM			CO2	Learn the characteristics of FRAUD DETECTION TECHNIQUES
MCOM			CO3	Deliberate in details with examples of FRAUD RISK MANAGEMENT
MCOM			CO4	Deliberate in details with examples of FORENSIC AUDIT
MCOM			CO5	Learn in details with application, if applicable, AUDIT AND INVESTIGATION
MCOM	4.3	INTERNATIONAL ACCOUNTING (ACCOUNTS)	CO1	Learn in details with application, if applicable, INTRODCUTION
MCOM			CO2	Learn the characteristics of IFRS ON OVERVIEW
MCOM			CO3	Deliberate in details with examples of SPECIAL ISSUES IN INTERNATIONAL ACCOUNTING
MCOM			CO4	Deliberate in details with examples of FINANCIAL STATEMENT ANALYSIS
MCOM			CO5	Learn in details with application, if applicable, FINANCIAL IN OTHER COUNTRIES
MCOM	4.4	STRATEGIC COST MANAGEMENT-II (ACCOUNTS)	CO1	Learn in details with application, if applicable, PRICING STRATEGIES
MCOM			CO2	Learn the characteristics of TRANSFER PRICING
MCOM			CO3	Deliberate in details with examples of LEARNING CURVE THEORY
MCOM			CO4	Deliberate in details with examples of QUALITY WORK
MCOM			CO5	Learn in details with application, if applicable, BALANCED SCORECARD

Program	CourseCode	CourseName	COCode	CO
MCOM	4.5	GOODS AND SERVICE TAX (ACCOUNTS)	CO1	Learn in details with application, if applicable, INTRODUCTION
MCOM			CO2	Learn the characteristics of LEVY OF GST
MCOM			CO3	Deliberate in details with examples of ITC
MCOM			CO4	Deliberate in details with examples of ACCOUNTS RETURNS
MCOM			CO5	Learn in details with application, if applicable, REFUND AUDIT AND ASSESSMENT UNDER GST
MCOM	4.6	FOREX MANAGEMENT (FINANCE)	CO1	Learn in details with application, if applicable, ELEMENTS OF FOREIGN EXCHANGE
MCOM			CO2	Learn the characteristics of EXCHANGE RATES
MCOM			CO3	Deliberate in details with examples of FOREX TRADING AND CONTRACTS
MCOM			CO4	Deliberate in details with examples of EXCHANGE PAYMENTS
MCOM			CO5	Learn in details with application, if applicable, FOREX RISK MANAGEMENT
MCOM	4.7	SECURITIES ANALYSIS AND PORTFOLIO MANAGEMENT	CO1	Learn in details with application, if applicable, INTRODUCTION
MCOM			CO2	Learn the characteristics of SECURTIES
MCOM			CO3	Deliberate in details with examples of PORTFOLIO MANAGEMENT
MCOM			CO4	Deliberate in details with examples of PORTFOLIO EVALUATION
MCOM			CO5	Learn in details with application, if applicable, GLOBAL MARKETS
MCOM	4..8	STRATEGIC FINANCIAL MANAGEMENT	CO1	Learn in details with application, if applicable, FINANCIAL POLICY AND STRATEGIES
MCOM			CO2	Learn the characteristics of RISK AND UNCERTAINTY
MCOM			CO3	Deliberate in details with examples of FINANCIAL RESTRUCTURING
MCOM			CO4	Deliberate in details with examples of LEASING
MCOM			CO5	Learn in details with application, if applicable, FINANCING STRATEGY

NEP 1 SEM

Program	CourseCode	CourseName	COCode	CO
BBA – Bachelor of Business Administration	BBA 1.2	Fundamentals of Accounting	CO1	Understand the framework of accounting as well accounting standards.
			CO2	The Ability to pass journal entries and prepare ledger accounts
			CO3	The Ability to prepare various subsidiary books
			CO4	The Ability to prepare trial balance and final accounts of proprietary concern
			CO5	Construct final accounts through application of accounting software tally

Program	CourseCode	CourseName	COCode	CO
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.

Program	CourseCode	CourseName	COCode	CO
BBA – Bachelor of Business Administration	BBA 2.1		CO1	Ability to understand the conversion of single entry into double entry.
			CO2	The ability to prepare final accounts of partnership firms
			CO3	The ability to understand the process of public issue of shares and accounting for the same
			CO4	The ability to prepare final accounts of joint stock companies
			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
			CO2	Ability to describe HRP, Recruitment and Selection process
			CO3	Ability to describe to induction, training, and compensation aspects
			CO4	Ability to explain performance appraisal and its process.
			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
			CO2	Ability to analyse the environmental factors influencing business organisation
			CO3	Ability to demonstrate Competitive structure analysis for select industry.
			CO4	Ability to explain the impact of fiscal policy and monetary policy on business
			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
			CO2	The Application AP and GP in solving business problems
			CO3	The calculation of simple interest, compound interest and discounting of Bills of Exchange
			CO4	The application of matrices in business.
			CO5	The Application of ratios and proportions in business.

Program	CourseCode	CourseName	COCode	CO
			CO1	Demonstrate an understanding of the concepts of costing and cost accounting
			CO2	Classify, allocate apportion overheads and calculate overhead absorption rates.
BBA – Bachelor of Business Administration	BBA. 3.1	COST ACCOUNTING	CO3	Demonstrate the ability to calculate labour cost
			CO4	The ability to prepare final accounts of joint stock companies
			CO5	Prepare material related documents, understand the management of stores and issue procedures
Program	CourseCode	CourseName	COCode	CO
			CO1	Demonstrate an understanding of the role of OB in business organization
			CO2	Demonstrate an ability to understand individual and group behavior in an organization.
BBA – Bachelor of Business Administration	BBA 3.2	ORGANIZATIONAL BEHAVIOUR	CO3	Be able to explain the effectiveness of organizational change and development of organisation.
			CO4	Demonstrate an understanding of the process of organizational development and OD Interventions.
BBA – Bachelor of Business Administration	BBA 3.3		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	BUSINESS ENVIRONMENT	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		CO1	To understand the basic concepts in statistics.
BBA – Bachelor of Business Administration	BBA 2.3	STATISTICS FOR BUSINESS DECISIONS	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.

Program	CourseCode	CourseName	COCode	CO
			CO1	Explain the application of management accounting and various tool used
			CO2	b) Make inter – firm and inter- period comparison of financial statements
BBA – Bachelor of Business Administration	BBA.4.1	Management Accounting	CO3	c) Analyse financial statements using various ratios for business decisions.
			CO4	d) Prepare fund flow and cash flow statements
			CO5	e) Prepare different types of budgets for the business.
			CO1	a) Understand types of analytics and data models
			CO2	b) Understand the role of data indecision making, sources and types of Data.
BBA – Bachelor of Business Administration	BBA.4.2	Business Analytics	CO3	c) Ability to analyse data using different data analytic tools and draw inferences.
			CO4	d) Understand applied statistics for business problems.
			CO5	e) Demonstrate visualization of data.
			CO1	a) Understand the Overview of Indian financial system.
			CO2	b) Understand the different types of financial institutions and their role.
BBA – Bachelor of Business Administration	BBA.4.2	Financial Markets & Services	CO3	c) Understand concept of financial services, types and functions.
			CO4	d) Understand the different types of financial Instruments and its features.
			CO5	e) 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

Program	CourseCode	CourseName	COCode	CO
BBA – Bachelor of Business Administration	BBA 5.1	INCOME TAX - I	CO1	To expose students to various provision of Income Tax Act relating to the computation of Income of Individual Assessee
BBA – Bachelor of Business Administration	BBA 5.2	BUSINESS REGULATIONS	CO1	To introduce the students to the various Legislations affecting Business and to familiarize them with such Regulations
BBA – Bachelor of Business Administration	BBA 5.3	INDIRECT TAXES	CO1	To impart Students knowledge on GST and Customs Duty
BBA – Bachelor of Business Administration	BBA 5.3		CO2	To make the students to understand the rules, regulation and procedures relating to GST and Customs Duty
BBA – Bachelor of Business Administration	BBA 5.4	INFORMATION TECHNOLOGY FOR BUSINESS – I	CO1	To familiarize students with nature and purpose of database Systems and how they work
BBA – Bachelor of Business Administration	BBA 5.4		CO2	To develop skills among the students to design and implement simple Computer based business Information Systems using MS EXCEL.
BBA – Bachelor of Business Administration	BBA 5.4		C03	To familiarize students in latest aspects of Information Technology used in business context.
Program	CourseCode	CourseName	COCode	CO
BBA – Bachelor of Business Administration	FN 5.5	ADVANCED CORPORATE FINANCIAL MANAGEMENT	CO1	To provide knowledge on valuation of business enterprises
BBA – Bachelor of Business Administration	FN 5.5		CO2	To make students understand the various models of value-based management.
BBA – Bachelor of Business Administration	FN 5.5		CO3	To give insight on various forms of corporate restructuring.
BBA – Bachelor of Business Administration	FN 5.6	SECURITY ANALYSIS AND PORTFOLIO MANAGEMENT	CO1	To provide knowledge and skill in identifying various investment alternatives and choosing the suitable alternatives
	FN 5.6		CO2	To orient on the procedures and formalities involved in investing.
BBA – Bachelor of Business Administration	MK 5.5	CONSUMER BEHAVIOUR	CO1	To develop an understanding about the consumer decision-making process and its applications in marketing function of firms
BBA – Bachelor of Business Administration	MK 5.6	INTEGRATED MARKETING COMMUNICATION	CO1	To familiarize students with essential concepts and techniques for the development and designing of an effective Integrated Marketing Communication program.
BBA – Bachelor of Business Administration	MK 5.6		CO2	To provide the learning about various communication tools and its effectiveness
BBA – Bachelor of Business Administration	MK 5.6		C03	Foster creative ideas among learners for development of effective marketing communication program
BBA – Bachelor of Business Administration	HR 5.5	INDUSTRIAL RELATIONS AND EMPLOYEE LEGISLATION	CO1	To familiarize students with the Industrial Relations and Legislations relating to Regulatory and Social Security of Employees in India.
BBA – Bachelor of Business Administration	HR 5.6	COMPENSATION AND PERFORMANCE MANAGEMENT	CO1	To enable the students to understand the various methods and practices of Compensation and Performance Management

Program	CourseCode	CourseName	COCode	CO
BBA – Bachelor of Business Administration	BBA 6.1	INCOME TAX - II	CO1	To make students understand the computation of Taxable Income and Tax Liability of individuals.
BBA – Bachelor of Business Administration	BBA 6.1			
BBA – Bachelor of Business Administration	BBA 6.1			
BBA – Bachelor of Business Administration	BBA 6.1			
BBA – Bachelor of Business Administration	BBA 6.1			
BBA – Bachelor of Business Administration	BBA 6.2	STRATEGIC MANAGEMENT	CO1	To enable the students to understand the various strategic issues such as Strategic Planning, Implementation and Evaluation.
BBA – Bachelor of Business Administration	BBA 6.3	INTERNATIONAL BUSINESS	CO1	To facilitate the students in understanding Globalization and International Business Management
BBA – Bachelor of Business Administration	BBA 6.4	INFORMATION TECHNOLOGY FOR BUSINESS – II	CO1	To familiarize with the aspect of Internet, Email, Search Engine
BBA – Bachelor of Business Administration	BBA 6.4		CO2	To provide an analytical and technical framework to understand the emerging world of E-commerce
BBA – Bachelor of Business Administration	BBA 6.4		C03	To develop skills in E marketing Techniques
BBA – Bachelor of Business Administration	BBA 6.4		CO4	To familiarize with the aspect of Online Social Networks
BBA – Bachelor of Business Administration	FN 6.5	RISK MANAGEMENT AND DERIVATIVES	CO1	To make the students to understand the various risks associated with business.
BBA – Bachelor of Business Administration	FN 6.5		CO2	To provide knowledge on risk measurement and evaluation in making capital budgeting decisions

Programme	Code	Course	CO	Course Outcome
BBA – Bachelor of Business Administration	FN 6.5		CO3	To provide knowledge on risks associated with investments outside the business and strategies for hedging the same with derivatives
BBA – Bachelor of Business Administration	FN 6.6	INTERNATIONAL FINANCE	CO1	To orient the students on global business environment and international markets
BBA – Bachelor of Business Administration	FN 5.6		CO2	To make students understand the various risks an enterprise is exposed to on account of international transactions.
BBA – Bachelor of Business Administration	FN 5.6		CO3	To provide knowledge and skills for hedging foreign currency risks.
BBA – Bachelor of Business Administration	MK 6.5	DIGITAL MARKETING	CO1	To facilitate the ability to identify the importance of digital marketing for marketing success and to manage customer relationships across all digital channels and to create a digital marketing plan.
BBA – Bachelor of Business Administration	MK 6.6	SUPPLY CHAIN AND LOGISTICS MANAGEMENT	CO1	To introduce the students to the Fundamentals of Logistics and Supply Chain Management Strategies and the Market Environment for Logistics and Supply Chain Management
BBA – Bachelor of Business Administration	HR 6.5	INTERNATIONAL HUMAN RESOURCES MANAGEMENT	CO1	To familiarize the students with various concepts and issues relating to International Human Resources Management
BBA – Bachelor of Business Administration	HR 6.6	ORGANISATIONAL DEVELOPMENT AND CHANGE MANAGEMENT	CO1	To enable the students to understand the need for Organizational Change and Development and the OD Interventions for creating Successful Organizations

Program	CourseCode	CourseName	COCode	CO
BCA-Bachelor of Computer Application	BCA501T		CO1	Learn in depth Communication Network and services, Approaches to Network Design, Network Functions and Network Topology, Message ,packet and circuit Switching , Internet, Packet Switching ;
BCA-Bachelor of Computer Application	BCA501T		CO2	Specify in details with examples Transmission Systems:properties, transmission media, Error detactions and error correction techniques, TDM,FDM, SONET, Cellular Networks
BCA-Bachelor of Computer Application	BCA501T	Data Communication and Networks	CO3	Learn the characteristics of Peer –to-Peer Protocols, ARQ protocol and types, DLC, HDLC, PPP, Statistical multiplexing
BCA-Bachelor of Computer Application	BCA501T		CO4	Learn the characteristics of Local Area Networks and Medium access Control Protocols, ALOHA, CSMA, CSMA/CD, Channelization – FDMA, TDMA, CDMA
BCA-Bachelor of Computer Application	BCA501T		CO5	Identify in details with examples LAN Standard – Ethernet and IEF, 802.3, LAN Bridges , Routing algorithms, congestion control algorithms
BCA-Bachelor of Computer Application	BCA502T		CO1	Learn about Artificial Intelligence,Heuristic search techniques
BCA-Bachelor of Computer Application	BCA502T		CO2	Knowledge representation using predicate logic,non-monotonic logic
BCA-Bachelor of Computer Application	BCA502T	Artificial Intelligence	CO3	Planning: block world, strips, Implementation using goal stack, Non linear planning with goal stack,representing and recognizing scenes.
BCA-Bachelor of Computer Application	BCA502T		CO4	Learn about matching algorithm,neural networks
BCA-Bachelor of Computer Application	BCA502T		CO5	Natural language processing and understanding and pragmatic, syntactic, semantic, analysis, RTN, ATN, understanding sentences
BCA-Bachelor of Computer Application	BCA503T		CO1	Write down in details with examples Introduction to JAVAA
BCA-Bachelor of Computer Application	BCA503T		CO2	Write down in depth Classes, Arrays, Strings and Vectors
BCA-Bachelor of Computer Application	BCA503T	JAVA Programming	CO3	Write down the details of Interfaces, Packages, and Multi threaded Programming
BCA-Bachelor of Computer Application	BCA503T		CO4	Understand the classification and characteristics of Managing Exceptions, Applet Programming
BCA-Bachelor of Computer Application	BCA503T		CO5	Identify the classification and characteristics of Graphics Programming, Input/Output: Graphics programming
BCA-Bachelor of Computer Application	BCA504T		CO1	Delibrate definition of algorithm and analysis of algorithm
BCA-Bachelor of Computer Application	BCA504T		CO2	Understand about Divide and Conquer
BCA-Bachelor of Computer Application	BCA504T	Analysis and Design of Algorithm	CO3	Learn about greedy method
BCA-Bachelor of Computer Application	BCA504T		CO4	Understand about dynamic programming and multistage graph
BCA-Bachelor of Computer Application	BCA504T		CO5	learn about basic traversal &search techniques
BCA-Bachelor of Computer Application	BCA601T		CO1	Specify in details with examples Introduction of System Programming
BCA-Bachelor of Computer Application	BCA601T		CO2	Specify the classification and characteristics of Assemblers, Pass 1 and Pass 2, Searching and sorting
BCA-Bachelor of Computer Application	BCA601T	System Programming	CO3	Features of Macro Processor, Data structures, databases, Pass1 and Pass 2 macro processor
BCA-Bachelor of Computer Application	BCA601T		CO4	Specify the characteristics of Loaders, different loader schemes, dynamic linking and loading
BCA-Bachelor of Computer Application	BCA601T		CO5	Understand the details of Compilers, stages of compilers with databases
BCA-Bachelor of Computer Application	BCA602T		CO1	Learn about communication and leadership
BCA-Bachelor of Computer Application	BCA602T		CO2	Understand about social style and culture difference in communication
BCA-Bachelor of Computer Application	BCA602T	PROFESSIONAL AND BUSINESS COMMUNICATION	CO3	Learn to prepare for the interview
BCA-Bachelor of Computer Application	BCA602T		CO4	Understand and improve team dynamics
BCA-Bachelor of Computer Application	BCA602T		CO5	Preparing and organizing a presentation, writing business letters and documents
BCA-Bachelor of Computer Application	BCA603T		CO1	Understand the details of Fundamentals of web
BCA-Bachelor of Computer Application	BCA603T		CO2	Identify in depth HTML and XHTML
BCA-Bachelor of Computer Application	BCA603T	WEB Programming	CO3	Specify the classification and characteristics of Java Script
BCA-Bachelor of Computer Application	BCA603T		CO4	Deliberate the details of Java Script and HTML documents
BCA-Bachelor of Computer Application	BCA603T		CO5	Deliberate in details with examples Dynamic documents with Java Script
		NEP SYLLABUS		
BCA-Bachelor of Computer Application	CA-C11T		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	Operating System	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		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	Compute Networks	CO3	Understand about network layer, unicast learning
BCA-Bachelor of Computer Application	CA-C12T		CO4	Understand tramsport layer, application layer, quality of service
BCA-Bachelor of Computer Application	CA-C13T		CO1	Understand programming language,control flow,functions and strings
BCA-Bachelor of Computer Application	CA-C13T		CO2	Learn about lists,dictonary , tuples and sets
BCA-Bachelor of Computer Application	CA-C13T	Phython Programming	CO3	Learn about files and object oriented programming
BCA-Bachelor of Computer Application	CA-C13T		CO4	Understand Data visualization, workng with APIs

Program	CourseCode	CourseName	COCode	CO
BCA-Bachelor of Computer Application	CA-C16T	Software Engineering	CO1	Understand Software development life cycle, feasibility and agile development
BCA-Bachelor of Computer Application	CA-C16T		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	Design and analysis og 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-C18T	Information Technology	CO1	Learn about internet, application
BCA-Bachelor of Computer Application	CA-C18T		CO2	Learn about HTTP and evolution of web, info retrival 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
		Problem Solving Techniques		
BCA-Bachelor of Computer Application	CA-C2T		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
Program	CourseCode	CourseName	COCode	CO
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

Program	CourseCode	CourseName	COCode	CO
		Computer Architecture		
BCA-Bachelor of Computer Application	CA-C3T		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		CO4	Delibrate the concept of Memory system

Program	CourseCode	CourseName	COCode	CO
		JAVA Programming		
BCA-Bachelor of Computer Application	CA67T		CO1	Understand the Basics of Java programming and the concept of objects and classes
BCA-Bachelor of Computer Application	CA67T		CO2	Learn Inheritance and Polymorphism
BCA-Bachelor of Computer Application	CA67T		CO3	Understand the different events and GUI Programming
BCA-Bachelor of Computer Application	CA67T		CO4	Learn multithreading in java

Program	CourseCode	CourseName	COCode	CO
		DBMS		
BCA-Bachelor of Computer Application	CA-C8T		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

	DSC 1	Introduction to Literature	CO1	Familiarization of literary concepts, genres, and literary devices.
			CO2	Acquaint with analytical, critical, and evaluative approach.
			CO3	Exponential experience in style, variety, and aesthetics of literary works.
			CO4	Cultivate the habit of close reading.

	DSC 2	**Indian Writing in English I**	CO1	Appreciation of prescribed literary texts.
			CO2	Sensitization of issues prevalent in the given texts.
			CO3	Insights into two popular literatures of the world.
	OEC 1	**Critical Thinking and Creative Writing I**	CO1.	Familiarization of literary concepts, genres, and literary devices.
			CO2	Acquaint with analytical, critical, and evaluative approach.
	DSC 3	**Introduction to Phonetics and Linguistics**	CO1	Be equipped with the basic linguistic competencies and phonetic sounds.
			CO2	Develop analytical and interpretative skills.
			CO3	Locate and contextualize texts across theoretical orientations.
	DSC 4	**Indian Writing in English**	CO1	Be enriched with the knowledge of other literatures and more importantly of Indian writers, their ethos and tradition of writing.
			CO2	familiarized with eminent Indian writers.
			CO3	Sensitization of issues prevalent in the given texts.
			CO4	Cultivate the habit of close reading and analysis of texts.
	OEC 2	**Critical Thinking and Creative Writing II**	CO1	Develop analytical and interpretative skills.
			CO2	Cultivate the habit of close reading.
Optional English	DSC 5	**British Literature up to 1800 – Paper I From Chaucer to Age of Transition**	CO1	Learn the important trends and movements in the British literature of the prescribed period
			CO2	Identify and understand the canonical literature of England
			CO3	Distinguish the poets, playwrights and novelists of different periods
			CO4	Appreciate some representative texts of the prescribed period

	DSC 6	Indian Literature in Transition Paper II	CO1	Understand the meaning and methods of translation
			CO2	Comprehend the scope of translation in the modern age
			CO3	Have the knowledge of Indian writers and literature in general
			CO4	Appreciate the translated text
	Paper 5	American Literature	CO1	. Know how a literary text, explicitly or allegorically negotiates
			CO2	Locate and represent the various voices through the selections.
			CO3	Distinguish between the different varieties of English used all over the world.
	Paper 6	European Literature	CO1	Trace the history of various literary movements and its textual representations.
			CO2	Apply critical and theoretical approaches to the reading and analysis of literary and cultural texts in multiple genres
			CO3	Know how a literary text, explicitly or allegorically negotiates
	Paper 7	World Literature I	CO1	Students shall comprehend the artistry and utility of the English language through the study of World Literature and other contemporary forms of culture.
			CO2	Students shall be capable of performing analysis, and criticism of a variety of literary and cultural texts from different historical periods and genres.
			CO3	Students shall be able to ethically gather, understand, evaluate and synthesize information from a variety of written and electronic sources.
	Paper 8:	World Literature II	CO1	Students shall comprehend the artistry and utility of the English language through the study of World Literature and other contemporary forms of culture.
			CO2	Students shall be capable of performing analysis, and criticism of a variety of literary and cultural texts from different historical periods and genres.
			CO3	Students shall be able to ethically gather, understand, evaluate and synthesize information from a variety of written and electronic sources.

BSc (NEP)	DSC - T1 MBL-101	General Microbiology	CO1	Through knowledge and understanding of concepts of microbiology
			CO2	Learning and practicing professional skills in handling microbes.
			CO3	Through knowledge and application of good laboratory and manufacturing practices in microbial quality control.
BSc (NEP)	DSC - T2 MBL-102	Microbial Biochemistry and Physiology	CO1	To learn and understand the basic Biochemical concepts of life
			CO2	To learn and understand about Macromolecules found in living organisms
			CO3	To learn and understand about Microbial growth characteristics
			CO4	To learn and understand about Microbial Nutrition
			CO5	To learn and understand about Microbial Metabolism
BSc (NEP)	DSC - T3 MBL-103	Micrbial Diversity	CO1	Acquire knowledge about microbes and their diversity
			CO2	Study the characteristics, classification, and economic importance of Prokaryotic and Eukaryotic microorganisms
			CO3	Gain knowledge about viruses and their diversity
BSc (NEP)	DSC - T4 MBL-104	Microbial Enzymology and Metabolism	CO1	Differentiating concepts of chemoheterotrophic metabolism and chemolithotrophic metabolism.
			CO2	Describing the enzyme kinetics, enzyme activity and regulation.
			CO3	Differentiating concepts of aerobic and an aerobic respiration and how these are manifested in the form of different metabolic pathways in microorganisms.
BSc-Non NEP	MBT-501	Agricultural and Environmental Microbiology	CO1	Understand the Microbiology of Soil
			CO2	Learn and Understand about Microorgansims in agriculture
			CO3	Understand the Microbiology of air
			CO4	Understand the Microbiology of water
BSc-Non NEP	MBT-502	Food and Dairy Microbiology	CO1	Understand the Microbiology of Food
			CO2	Understand the Microbiology of Milk
			CO3	Learn the methods of Microbial analysis of Milk
			CO4	Learn the methods of Microbial analysis of Foods
			CO1	Write down in depth Isolation and identification of microorganisms from Ear, nose, throat and sputum.
			CO2	Identify in details with examples Isolation and identification of microorganisms from clinical sample -urine
			CO3	Identify in details with examples Chemical analysis of urine -crystal identification, Determination of sugar and protein in urine samples
			CO4	Specify the details of Blood grouping
			CO5	Specify the classification and characteristics of Differential count of WBC. 1 unit
			CO6	Specify in details with examples Coagulase test
			CO7	Learn the characteristics of WIDAL test
			CO8	Write down in details with application, if applicable, VDRL test
			CO9	Specify the characteristics of Spot ELISA
			CO10	Specify the classification and characteristics of ODD -Ouchterlony Double Diffusion
			CO11	Learn the details of RID -RadialImmuno Diffusion

			CO12	Learn in depth Study of AFB (slide)
BSc - Non NEP	MBT-601	Immunology and Medical Microbiology	CO13	Specify in details with application, if applicable, Study of pathogenic microorganisms –Shigella spp, Clostridium spp, Staphylococcus spp; Streptococcus spp, Entamoeba spp; Plasmodium spp
			CO14	Learn in depth Major developments in medical microbiology
			CO15	Specify the characteristics of Factors responsible for microbial pathogenicity
			CO16	Identify in details with application, if applicable, Microbial flora of the human body
			CO17	Deliberate the characteristics of Important groups of pathogenic microorganisms
			CO18	Learn in details with examples Bacterial Diseases a. Syphilis
			CO19	Deliberate in details with examples Diphtheria
			CO20	Deliberate the details of Tetanus
			CO21	Specify in details with application, if applicable, Typhoid
			CO22	Identify in depth Cholera
			CO23	Identify in depth Tuberculosis
			CO24	Deliberate in details with application, if applicable, Viral Diseases a. Rabies
			CO25	Learn the details of b. Hepatitis A,B
			CO26	Write down the details of c. HIV
			CO27	Write down in details with examples Protozoan Diseases a. Amoebiasis
			CO28	Understand in details with examples b. Malaria
			CO29	Identify the classification and characteristics of Fungal Diseases a. Candidiasis
			CO30	Identify the characteristics of b. Cutaneous mycoses
BSc - Non NEP	MBT-602	Industrial Microbiology and Microbial Technology	CO1	Learn and Understand about Microorganisms important in Industries
			CO2	Learn and understand about large scale production
			CO3	Learn and understand about microbial fermentors
			CO4	Learn about production of microbial products

			CO1	Student is introduced to Microbiology, the classification and recent trends in taxonomy. The concepts of bacterial phylogeny and construction of phylogenetic trees.
MSc Microbiology	MBH101		CO2	The details of morphology and ultrastructure of bacteria. The characteristics, ultrastructure and significance of Cyanobacteria.
			CO3	Morphological characteristics of different groups of bacteria such as Mycoplasma, Archaebacteria, Actinomycetes, Rickettsia.
			CO4	Learn in details with examples the nutritional requirements, cultivation media for microbes. Microbial growth kinetics and factors affecting growth, mechanism of cell cycle in bacteria.
			CO5	Write down in depth the various methods of cultivation of bacterial and animal viruses and their assay methods.
MSc Microbiology	MBH 102	Eukaryotic Microbiology	CO1	Understand the classification and characteristics of Protozoa with few examples and cultivation methods
			CO2	Deliberate the details of Fungal cell, spores, mechanism of growth, cultivation and prevention of fungal growth
			CO3	Write down the characteristics of General features, diversity, Ainsworth system of classification, structure, reproduction and significance of Allomyces, Claviceps, Puccinia, Fusarium
			CO4	understand the different Substrate groups: saprophytic, parasitic, keratinophilic, coprophilous; substrate successions, parasitism, predation, mutualism and symbiosis with plants and animals. Diversity of aquatic fungi.Economic importance of fungi.
			CO5	Write down in depth Isolation and cultivation of algae invitro and mass production of algae
			CO6	Understand the details of Role of algae as Food, theraputics, biofuels, heavy metals removal
			CO7	Understand in detail the general feature, classification, diversity, stucture, reproduction and significance of Algae.
MSc Microbiology	MBH 103	Microbial Phyosology & Biochemistry	CO1	Metabolism and Bioenergetics
MSc Microbiology	MBH 104	Microbial & Biochemical Techniques	CO1	Priciples of Biochemical techniques
MSc Microbiology	MBH 106	Bacteriology , Viology &Eukaryotic Micr	CO1	understand the mechanisism of Growth in fungi-linear and biomass
			CO2	Specify in depth Isolation of microorganism:Serial dilution, pure culture techniques
			CO3	Understand in depth effect of pH, temperature, and nutritional factor on growth of fungi
			CO4	Learn the details of Isolation of algae from soil and water
			CO5	Learn the details of Isolation of Protozoa from soil and water
			CO6	Understand the characteristics of Culturing and cultural characteristics of microorganisms
			CO7	Specify the classification and characteristics of Staining techniques:Simple, Differential:acid-fast, endospore, capsule, cell wall, cytoplasmic inculsionvital stains: flagella, spore and nuclear staining
			CO8	Deliberate in details with examples Biochemical tests for identification of Bacteria, Identification of bacteria by API system
			CO9	Specify the details of Bacterial growth measurement(cell count, turbidometry, plate count)
			CO10	Delibrate the technique of Isolation of bacteriophages from sewage and flies
			CO11	Learn in detail the different methods of Isolation of fungi from soil:Dilution plate method, Warcup method, stamping method.
			CO12	Learn the different methods of Isolation of fungi from plant material

Program	Course Code	Course	CO	Course Outcome
MSc Microbiology	MBT 401	Microbial Phyosology & Biochemistry, MicrobialTech	CO1	earn in detail of isolation,characterisation and preservation of purecultures
			CO2	study principle and application of different types of microscopes.
			CO3	Learn about direct and indirect methods of measurement of microbial growth.
			CO4	analysis of metagenomics
			CO5	Understand the principle and application of spectroscopy.
			CO6	learn indetail principle and application of chromatography.
			CO7	Study isotope techniques
MSc Microbiology	MBH 201		CO1	Specify in depth the structure of prokaryotic genome and E.coli chromosome.
MSc Microbiology	MBH 201	Microbial Genetics	CO2	Deliberate in details the structure and organization of eukaryotic genome. Histone modifications and their effects on chromosome structure and function. The different types of DNA sequences, law of DNA constancy , genome size and Cvalue paradox.
			CO3	Understand in depth Molecular basis of spontaneous and induced mutations and their role in evolution; mutagens, types of mutations, Ames and other toxicity testing.
			CO4	Understand in detail Genetic recombination in bacteriophages and E. coli. Homologous recombination,role of RecA and other recombinases, generalized & specialized transduction, transformation and conjugation.
			CO5	Deliberate in depth mechanisms and applications of bacterial transformation; Host cell restriction; Transduction; complementation; conjugation and transfection. Genetics of fungi-alteration of generation, induction of mutation in Neurospora crassa and yeast, cytoplasmic
			CO6	Deliberate in details with application, Plasmids- description, types and their uses in genetic analysis. Bacteriophages, Lysogeny and lytic cycle in bacteriophages, and their uses in microbial genetics.
MSc Microbiology	MBH 202	Molecular biology	CO1	Learn in details with examples Control of gene expression at transcription and translation level, gene silencing
			CO2	Specify in details with examples regulation of gene expression and operon concepts
			CO3	Deliberate in depth Transcription in prokaryotes and eukaryotes
			CO4	Deliberate the classification and characteristics of Translation in prokaryotes and eukaryotes and post translational modifications
			CO5	Write down in depth DNA replication in prokaryotes and eukaryotes
			CO6	Structure DNA & RNA . Mechanisms of DNA damage and repair

Program	Code	Course	CO	Description
MSc Microbiology	MBH203	Environment Microbiology	CO1	Aerobiology- Air spora in different layers of atmosphere, bioaerosol, assessment of air quality using principles of sedimentation, impaction, impingement, suction and filtration. Brief account of transmission of airborne microbes; Microbiology of indoor and outdoor. Allergy-
			CO2	Aquatic Microbiology: Fresh and marine ecosystem (estuaries, mangroves, deep sea, hydrothermal vents, salt pans, coral reefs). Zonation of water ecosystem; upwelling, eutrophication; food chain in aquatic ecosystems. Role of methanotrophs in ecosystem
			CO3	Soil Microbiology: Biotic and abiotic interactions, concepts of habitat and niche. Microbial communities; nature, structure and attributes, levels of species diversity, succession and stability, r and K selection, genetic exchange between communities. Biodiversity
			CO4	Diversity in anoxic eco system: Methanogens-reduction of carbon monoxide- reduction of iron, sulphur, manganese, nitrate and oxygen. Microbial transformations of Carbon, Phosphorus, Sulphur, Nitrogen and Mercury
			CO5	Extremophiles: The domain Archaea, acidophilic, alkalophilic, thermophlic, barophilic and osmophilic and radiodurant microbes- mechanisms and adaptation. Halophilic- membrane variation- electron transport- application of thermophiles and extremophiles. Extremozymes
M.Sc Microbiology	MBH204	Food Microbiology	CO1	Write down the details of Introduction: Development of food microbiology as a science, scope of food microbiology. Food as substrate for microorganisms, intrinsic and extrinsic factors affecting the growth of microbes, important microorganisms in food (molds, yeasts
			CO2	Write down in depth Food contamination and spoilage: Sources of food contamination. Principles of food spoilage; spoilage of cereals, sugar products, vegetables, fruits, meat and meat products, milk and milk products, fish and sea foods, poultry; spoilage of canned foods.
			CO3	Write down the details of Food-borne infections and intoxication: Bacterial- Brucella, Bacillus, Clostridium, Escherichia, Listeria; Food intoxication- Botulism, Staphylococcal. Mycotoxins & their types – aflatoxins, ochratoxins, fumiposins, trichothecenes, zealenone, ergot alkaloids;
			CO4	Specify in depth Food preservation: Principles and methods of food preservation- Physical (temperature, irradiation, drying, canning, processing for heat treatment-D, Z and F values) Chemical (Organic acids, food additives, Class I and Class II preservatives). Biopreservation
			CO5	Learn in depth Microbial and Fermented foods: SCP- Nutritional & therapeutic importance, Quorn and SCO and their Industrial production. Fermented Vegetables (olives, cucumbers), Meat (sausages), Beverage (cocoa and coffee); Bread, Idli, Dairy foods (cheese, srikhand)
			CO6	Deliberate in details with examples Food and sanitation: Good Hygiene Practices, Sanitation in manufacture and retail trade; food control agencies and their regulation, hazard analysis and critical control points (HACCP); GMP, plant sanitation –
M.Sc Microbiology	MBS205	BioInformatics	CO1	Specify the details of Introduction to computer
			CO2	Specify in depth Computer Network and Programming Languages
			CO3	Deliberate the characteristics of Relational Databases Management
			CO4	Identify the classification and characteristics of biological databases, sequence analysis methods
			CO5	Understand the characteristics of Protein Structure and Molecular Interaction
M.Sc Microbiology	MBP206	Microbial Genetics & Molecular Biology	CO1	Learn the details of Basic techniques of microbial genetics and molecular biology
M.Sc Microbiology	MBP207	Environment Microbiology &Food Microbiology	CO1	Various techniques and methods of microbial analysis of food and environment
M.Sc Microbiology	MBH303	Immunology	CO1	Immune system and Immunity
			CO2	Antigen and Antibodies
			CO3	Antigen Antibody reactions
			CO4	Hypersensitivity reactions
			CO5	Major histocompatibility complex
			CO6	Immunization
M.Sc Microbiology	MBH303	Recombanent DNA Technology	CO1	methods of cloning in prokaryotes and eukaryotes and DNA libraries
			CO2	Understand the principles of molecular techniques and applications
			CO3	Learn the methods of DNA sequencing and mapping of genes
			CO4	learn the principles of chemical and enzymatic synthesis of genes with examples
			CO5	Applications of recombinant DNA technology in various field
			CO6	tools of genetic engineering and different types of vectors
			CO7	Understand in depth basic techniques of recombinant DNA technology
M.Sc Microbiology	MBH401	Agricultural Microbiology	CO1	Write down the characteristics of Biological Nitrogen Fixation- Symbotic, nonsymbiotic, Associative nitrogen fixation mechanisms, genes involved, Nif gene, Nod factor, noduline genes. Genetic engineering of Biological Nitrogen Fixation
			CO2	Understand in depth Plant-Microbes interactions
			CO3	Deliberate in depth Bioinoculants: Biopesticides andBiofertilizer -types, production and quality control. Cultivation and mass production of bioinoculants-
			CO4	Identify in depth Molecular Plant Pathology- Recognition of host, entry, role of enzymes, toxins, R and r genes, phytotoxins, Phytoalexins, PR proteins, plant defense mechanisms against pathogens. Transgenic
			CO5	Learn the characteristics of Plant diseases-Symptomatology, etiology & control of Fungal, viral, Bacterial, mycoplasma, viroidal diseases
			CO6	Identify the characteristics of Microbes in Soil fertility, decompositon, effect of pesticides on soil

Program	Code	Course	CO	Description
M.Sc Microbiology	MBH403	Microbial Biotechnology	CO1	Write down in details with application, if applicable, Microbial transformation and organic synthesis: Transformation of steroids and sterols, over production of glutathione by genetically engineered cells. Metabolic engineering for vitamin C production, synthesis of
			CO2	Identify the details of Nanotechnology: Introduction, Tools of nanosciences, Synthesis of Nanomaterials using microbes. Biopolymeric nanoparticles: nanosensors, biomedical
			CO3	Identify the characteristics of Bioethics and biosafety: Introduction, Human genome project and its ethical, legal and social implications. Biosafety guidelines and regulations for GMOs. GLP and GMP. Labelling of GM products. Ethics and
			CO4	Understand the classification and characteristics of Microbial products for commercial use: Industrial production of organic acids (acetic acid, lactic acid). Amino acids (lysine, glutamic acid) Solvents (acetone, ethanol) Antibiotics (Cephalosporin, Streptomycin) Microbial
			CO5	Deliberate in details with examples Microbial enzymes: Industrial production of lipase, protease & asparaginase. Enzymes in - starch processing, food, textile, detergent, leather, breweries, pharmaceuticals, therapeutics, and diagnostics
			CO6	Specify the characteristics of Introduction: Principle, applications, economics and milestones in microbial technology
M.Sc Microbiology	MBH-301	Medical Microbiology	CO1	understand indetail the etiology, clinical symptoms, laboratory diagnosis and treatment of bacterial and protozoan diseases.
			CO2	study in detail the etiology, clinical symptoms, laboratory diagnosis and treatment of fungal diseases.
			CO3	understand classification and mechanism of antimicrobial agents,study of vaccins and probotics as therapeutic agents
			CO4	Deliberate in detail the etiology, clinical symptoms, laboratory diagnosis and treatment of viral diseases.
			CO5	Understand the details of principles and applications of various immuno and molecular diagnostic methods in microbiology
			CO6	Specify the characteristics of normal microflora of the human body and its significance. The detailed mechanism of infection, pathogenesis and mode of transmission of pathogens in diseases

Program	Code	Course	CO	Description
BA Political Science	DSC-1	Basic Concepts in Political Science	CO1	Understand the meaning and nature of Political Science.
			CO2	Evaluate the meaning, elements, and various theories of State
			CO3	Critically analyse the various concepts like Civil Society, Sovereignty, Liberty, and Equality.
			CO4	Analyze the various approaches to the study of Political Science.
			CO5	Understand and asses 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.
			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.
			CO3	Able to comprehend contemporary political/social debates of Indian society.
			CO4	Enables the students to understand and assess the western concepts and their practice and their implication on Indian social and political life.
			CO5	Asses and analyze the concept of secularism and able to understand the difference between Indian & Western Secularism.
	OE-1	Human Rights	CO1	CO1: Understand the meaning, classification, and various generations of human rights.
			CO2	CO2: Understand the difference between Human rights and fundamental rights and critically analyze the commissions like NHRC & KSHRC on human rights.
			CO3	CO3: Evaluate the major issues of marginalized groups like Women, Children, Dalits, Minorities, and Persons with Disability.
			CO4	CO4: Understand the Universal Declaration of Human Rights
			CO5	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.
			CO2	Understand and analyze the social contract theory and liberal thoughts to comprehend the idea of sovereignty, democracy, and government.
			CO3	Understand and analyze the knowledge of dialectical materialism, theory of truth and knowledge, theory of action, etc., and apply this knowledge to the empirical world.
			CO4	Understand, analyze and evaluate western political thought and philosophy.
			CO5	Develop critical understanding and thinking.
	DSC-4	Indian National Movements and Constitutional Developments	CO1	Comprehend and analyze how different phases of the Indian National Movement overthrew British Rule in India.
			CO2	Examine the influence of various Acts of the British government on constitutional development in India.
			CO3	Understand the Constitutional Assembly debate on State structure, Citizenship, Universal Adult Franchise, etc.
			CO4	Evaluate the ideas and methods of Gandhi in Indian freedom struggle
			CO5	Acquaint the role of liberal and revolutionary phase in Indian national movement.
	OE-2	Indian Polity: Issues and Concerns	CO1	Understand and analyze the national integration, caste, and language in Indian politics.
			CO2	Assess, understand, and analyze the major debates of our contemporary India like religion, development, inclusiveness, and regionalism.
			CO3	Understand and create knowledge by analyzing modern-day challenges that India is facing like corruption, terrorism, and diversity.
			CO4	Understand and evaluate the constitutional provisions provided in the Indian constitution to safeguard the interests of language, religion, and local traditions and protecting from caste operation
	Paper 3	Modern Governments	CO1	Understand working of different constitutions and systems of government
			CO2	Compare constitutional reforms and the operation of major government
			CO3	To gain knowledge of working different governments
			CO4	To understand merits and demerits of different political systems
			CO5	analyse the role of extra constitutional groups/bodies in decision making process.

	Paper 4	Political Thought	CO1	To develop critical thought on contemporary political developments
			CO2	To analyze and understand particular society and influences on its Political institutions
			CO3	To understand political ideas and its experiences in real life
			CO4	To demonstrate critical analysis of the working of Marxism in the contemporary world
			CO5	Understand social and political issues of India through Indian philosophical traditions
	Paper 5	Public Administration	CO1	To demonstrate theoretical knowledge on public administration and management
			CO2	To demonstrate critical thinking, decision-making and problem solving skills.
			CO3	Demonstrate integrative knowledge and understand various structures of administrative organisation.
			CO4	Understand the various functions of management and its strategies.
			CO5	Understand and critically analyse the personnel administration.
	Paper 6	International Politics	CO1	Understand foreign policy and major issues of international relations
			CO2	Understand the global issues by applying major traditions/theories of international relations.
			CO3	Understand the causes of war and global terrorism.
			CO4	Demonstrate negotiating skills and have knowledge on diplomatic activities
			CO5	Acquires ethical and moral quality in understanding human rights and law
	Paper 7	Advanced Public Administration	CO1	Understand public affairs, financial–economic policy analysis, organisational theory and their application to public service.
			CO2	Understand and analyse the concepts of accountability and control in various sections of the administration.
			CO3	Demonstrate the knowledge of administrative adjudication.
			CO4	Analyse and apply the knowledge of recent trends in public administration.
			CO5	Understand and analyse the various initiatives taken towards good governance.
	Paper 8	International Organisation and Foreign Policy	CO1	Analyze, evaluate, compare and discuss different international institutions including regional organization and challenges they face.
			CO2	Evaluate the foreign policy behavior of major countries and India's neighbour
			CO3	Can find careers in various international institutions
			CO4	Demonstrate analyzing skills and policy analysis.
			CO5	Can work as policy analyst in international politics for countries and in magazines.

Course Outcomes – Journalism

BA Journalism	Discipline Specific Course 1	Journalism (Introduction to Journalism: Concepts and Practices)	CO1	To introduce the concepts of mass communication in general and journalism in particular
			CO2	To impart fundamentals of journalism, evolutionary processes, basic concepts, practices and recent trends.
			CO3	To expose students to different facets of journalism
			CO4	To train students to develop inquisitive and analytical skills to be successful in media
	OEC 1:	Open Elective: Journalism (Writing for media)	CO1	To make them familiar with writing for media and develop interest in writing
			CO2	Introduce the students to cultivating of sources
			CO3	Equip the students with new trends in media writing
	Discipline Specific Course 2:	Journalism (Computer Applications in media)	CO1	To introduce students to the basics of computer
			CO2	To familiarize the students to the applications of computers in print and electronic journalism
			CO3	To facilitate the students to learn the practical applications of computers in different levels in media
			CO4	To expose the students to the world of internet and its extensive use for interactivity
			CO5	To familiarize the students with web based broadcasting
	OEC 2	: Open Elective: Journalism (Photojournalism)	CO1	To attract students towards photojournalism
			CO2	To familiarize the students to techniques of photography and photojournalism
			CO3	To give a practical knowledge in the field of photography
	Paper 3	Journalism: Editing	CO1	To introduce the concepts of news reporting
			CO2	. To expose students to different facets of reporting
			CO3	To train students about various techniques of reporting
			CO4	To enhance the journalistic skills of the students
	Paper 4	Paper 4 Journalism: Reporting	CO1	To introduce students to the concepts of news editing and proofreading
			CO2	To familiarize students towards the practical applications of copy editing and proofreading
			CO3	To introduce students to the organizational structure and functioning of news organizations
			CO4	To make students understand the various qualifications required and roles played in a news organization
			CO1	To introduce the concepts of media laws and ethics

	Paper	Subject	CO	Description
			CO2	To expose students to different approaches of studying media ethics
	Paper 5	**Journalism: Media Laws**	CO3	To train students to develop analytical skills in media
			CO4	To impart cases and acts regarding media ethics
			CO1	To introduce the concepts of electronic media
	Paper 6	Journalism: Introduction to electronic media	CO2	To impart practical knowledge in creating electronic media content
			CO3	To expose the students to different facets of journalism
			CO4	To train students towards the techniques of electronic media content creation
			CO1	To introduce the concepts of Advertising and Public Relations
	Paper 7	**Journalism: Advertising and Public Relations.**	CO2	To help them in understanding advertising in various field
			CO3	To expose the students into the field of Public Relations
			CO4	To help in understanding the working of Public Relations and Corporate Communications
			CO1	To introduce students to concepts of digital media
	Paper 8	**Journalism: Introduction to digital media**	CO2	To familiarize students towards applications of digital media tools
			CO3	To get students familiarized towards writing for social media
			CO4	To introduce students to content creation for the digital media platforms

	Paper	Subject	CO	Description
			C01	Identify in depth Rings, Integral Domains and Fields
	Paper 5	Mathematics-V	C02	Understand the characteristics of Differential Calculus Scalars and Vectors
			C03	Understand in depth Numerical Analysis
			C01	Write down the details of Calculus of Variation
	Paper 6	Mathematics-VI	C02	Write down in depth Line and multiple Integrals
			C03	Write down in details with examples Integral Theorems
BSc Mathematics			C01	Learn the characteristics of Linear Algebra
	Paper 7	Mathematics-VIi	C02	Identify in details with application, if applicable, Orthogonal Curvilinear Coordinates
			C03	Write down the classification and characteristics of Partial Differential Equations
			C01	Learn in details with examples Complex Analysis
	Paper 8	Mathematics-VIII	C02	Specify the classification and characteristics of Complex integration
			C03	Understand the details of Numerical solutions of algebraic and Transcendental equations

		Subject	CO	Description
BSc I Sem	(MATDSCT1) (MATDSCP1.1)	Algebra - I and Calculus – I Theory based Practical's on Algebra-I and Calculus - I	CO1	**MATRICES:- Learn to find rank of a matrix and to Solve the system of homogeneous and non-homogeneous linear system of ' m' equations in' n' variables by using concept of rank of matrix. finding eigenvalues and eigen vectors**
BSc I Sem	(MATDSCT1) (MATDSCP1.1)	Algebra - I and Calculus – I Theory based Practical's on Algebra-I and Calculus - I	CO2	**Continuity, Differentiability:- Become familiar with the techniques of finding nth derivatives of some standard functions**
BSc I Sem	(MATDSCT1) (MATDSCP1.1)	Algebra - I and Calculus – I Theory based Practical's on Algebra-I and Calculus - I	CO3	**Mean Value Theorems** :- Identify and apply the intermediate value theorems and L'Hospital's rule.
BSc I Sem	(MATDSCT1) (MATDSCP1.1)	Algebra - I and Calculus – I Theory based Practical's on Algebra-I and Calculus - I	CO4	**Partial Differentiation:- learn partial differentiation, Jacobians and related properties.Learn expansion of Taylor's and Maclaurin's series of functions of 2 variables and maxima and minima of functions of 2 variables.**
BSc I Sem	MATOET 1	**Open Elective** (for science background) Mathematics – I	CO1	**Matrices:-**
BSc I Sem	MATOET 1	**Open Elective** (for science background) Mathematics – I		Learn row and column operations, rank of matrix Learn to solve system of linear equations. Solve the system of homogeneous and non homogeneous m linear equations ,finding eigenvalues and eigenvectors.
BSc I Sem	MATOET 1	**Open Elective** (for science background) Mathematics – I	CO2	**Differential Calculus:-**
BSc I Sem	MATOET 1	**Open Elective** (for science background) Mathematics – I		Students will be familiar with the techniques of differentiation of function with real variables. Identify and apply the intermediate value theorems and L'Hospital's rule.
BSc I Sem	MATOET 1	**Open Elective** (for science background) Mathematics – I	CO3	**Integral Calculus**:-Learn to evaluate integrals , find arc -lengths , areas and volume.
BSc II Sem	MATDSCT 2 MATDSCP2.1	Algebra - II and Calculus - II Theory based Practical's on Algebra - II and Calculus - II	CO1	**Groups-I :-**
BSc II Sem	MATDSCT 2 MATDSCP2.1	Algebra - II and Calculus - II Theory based Practical's on Algebra - II and Calculus - II		Recognize the mathematical objects called Groups. Link the fundamental concepts of groups and symmetries of geometrical objects
BSc II Sem	MATDSCT 2 MATDSCP2.1	Algebra - II and Calculus - II Theory based Practical's on Algebra - II and Calculus - II	CO2	**Groups-II :- Explain the significance of the notions of cosets, normal subgroups and factor groups. Learn the quotient groups, concepts of homomorphism, isomorphism and properties related to isomorphism.**
BSc II Sem	MATDSCT 2 MATDSCP2.1	Algebra - II and Calculus - II Theory based Practical's on Algebra - II and Calculus - II	CO3	**Polar Co-ordinates** :- Learn solve problems related to angle between radius vector and tangent, angle between two curves. Learn expressing the curves in pedal form, derivative of an arc. Learn the center of curvature, asymptotes, evolutes and envelops of the given curve
BSc II Sem	MATDSCT 2 MATDSCP2.1	Algebra - II and Calculus - II Theory based Practical's on Algebra - II and Calculus - II	CO4	**Integral Calculus: - Learn the reduction formulae .Learn to find length of an arc, area of plane curves and surface area, volume of revolution**
BSc II Sem	MATOET 2	**Open Elective**: (for science background) Mathematics –II	CO1	**Theory of Equations**: earn how to find the roots of equations.Relation between roots and coefficients.Learn Descartes' rule of signs to find roots-
BSc II Sem	MATOET 2	**Open Elective**: (for science background) Mathematics –II	CO2	**Partial Differentiation: - Understand the concept of partial differentiation, Jacobians and Taylors and Meclaurin's expansion. Find the extreme values of functions of two variables.**
BSc II Sem	MATOET 2	**Open Elective**: (for science background) Mathematics –II	CO3	**Integral Calculus: -To understand the concepts of multiple integrals and their applications.**

BSc III Sem	MATDSCT 3 MATDSCP3.1	Ordinary differential Equation and real analysis -I	CO1	Solve first-order non-linear differential equations and linear differential equations. To model problems in nature using Ordinary Differential Equations. Formulate differential equations for various mathematical models
BSc III Sem	MATDSCT 3 MATDSCP3.1	Ordinary differential Equation and real analysis -I	CO2	Apply these techniques to solve and analyze various mathematical models.
BSc III Sem	MATDSCT 3 MATDSCP3.1	Ordinary differential Equation and real analysis -I	CO3	Understand the fundamental properties of the real numbers that lead to define sequence and series, the formal development of real analysis. Learn the concept of Convergence and Divergence of a sequence.
BSc III Sem	MATDSCT 3 MATDSCP3.1	Ordinary differential Equation and real analysis -I	CO4	Able to handle and understand limits and their use in sequences, series, differentiation, and integration. Apply the ratio, root, alternating series, and limit comparison tests for convergence and absolute convergence of an infinite series.

BSc IV Sem	MATDSCT 4 MATDSCP4.1	Partial differential equations and integeral transforms	CO1	Formulate, classify and transform partial differential equations into canonical form. Solve the partial differential equations of the first order and second order
BSc IV Sem	MATDSCT 4 MATDSCP4.1	Partial differential equations and integeral transforms	CO2	Solve linear and non-linear partial differential equations using various methods; and apply these methods to solving some physical problems.
BSc IV Sem	MATDSCT 4 MATDSCP4.1	Partial differential equations and integeral transforms	CO3	Able to take more courses on wave equation, heat equation and Laplace equation.
BSc IV Sem	MATDSCT 4 MATDSCP4.1	Partial differential equations and integeral transforms	CO4	Solve PDE by Laplace transfor

Department of chemistry/Biochemistry				
Course Outcomes for B.Sc Biochemistry (nep)				
Program	**Course Code**	**Course Name**	**Co Code**	**CO**
B.Sc Biochemistry	DSC1	Chemical foundation of Biochemistry - 1	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	Chemical foundation of Biochemistry - 2	CO2	Fundamental properties of elements, their role in formation of biomolecules and in chemical reactions within living organisms.
B.Sc Biochemistry	DSC1	Chemical foundation of Biochemistry - 3	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	Chemical foundation of Biochemistry - 4	CO4	Revisit to fundamentals of chemical bonds, electronic configuration, theories of bond formation.
B.Sc Biochemistry	DSC1	Chemical foundation of Biochemistry - 5	CO5	Unique property of water as a universal solvent and its importance in biological system
B.Sc Biochemistry	DSC1	Chemical foundation of Biochemistry - 6	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	Chemical foundation of Biochemistry - 7	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	OECB111	OE-1 Biochemistry in Health and Diseases	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 -2	CO1	These topics will enable students to understand the fundamentals of chemical processes in biological systems
B.Sc Biochemistry	DCCB201	Chemical foundation of biochemistry -3	CO2	Appreciation of the roles of metals, non-metals, transition metals and coordination compounds in biological systems.

Program	Course Code	Course Name	Co Code	CO
B.Sc Biochemistry	OECB211	Nutrition and Dietetics	CO1	Knowledge about energy requirements and the Recommended Dietary Allowances.
B.Sc Biochemistry	OECB211	Nutrition and Dietetics	CO2	understanding the functions and role of macronutrients, their requirements and the effect of deficiency and excess
B.Sc Biochemistry	OECB211	Nutrition and Dietetics	CO3	Understand the impact of various functional foods on our health
B.Sc Biochemistry	OECB211	Nutrition and Dietetics	CO4	
B.Sc Biochemistry	OECB211	Nutrition and Dietetics	CO5	Competence in connecting the role of various nutrients in maintaining health and learn to enhance traditional recipes.
B.Sc Biochemistry	OECB211	Nutrition and Dietetics	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	Understand the fundamentals of organic chemistry and their importance in understanding biochemical reactions.
B.Sc Biochemistry	DCCB401	Analytical Biochemistry	CO1	Understanding the concept of biological sample preparation
B.Sc Biochemistry	DCCB401	Analytical Biochemistry	CO2	Appreciate chemistry and application of analytical instruments.
B.Sc Biochemistry	DCCB401	Analytical Biochemistry	CO3	Get acquainted with Care & Maintenance of Equipment & Chemicals.
B.Sc Biochemistry	DCCB401	Analytical Biochemistry	CO4	Clinically relevant biochemical analysis for deeper understanding of all biochemical components i.e., Proteins, Electrolytes, Hormones etc.
B.Sc Biochemistry	DCCB401	Analytical Biochemistry	CO5	Basic knowledge of clinical and forensic analytical methods and their principles.

Program	Course Code	Course Name	Co Code	CO
B.Sc Biochemistry	EO331	Biochemistry -V	CO1	Identify the classification,properties and functions of carbohydrates.
B.Sc Biochemistry	EO331	Biochemistry -V	CO2	Understanding of classification,structures,properties and importance of Aminoacids and proteins
B.Sc Biochemistry	EO331	Biochemistry -V	CO3	Specify the properties,structures and importance of lipids
B.Sc Biochemistry	EO331	Biochemistry -V	CO4	understanding of Bioenergetics.
B.Sc Biochemistry	EO341	Biochemistry -VI	CO1	Identify the definition, classification and mechanism of enzymes Biological system
B.Sc Biochemistry	EO342	Biochemistry -VI	CO2	Understand the classification and characteristics of mutation
B.Sc Biochemistry	EO343	Biochemistry -VI	CO3	To make them understand about theTranscription processes in both eukaryotes and prokaryotes
B.Sc Biochemistry	EO344	Biochemistry -VI	CO4	Specify the properties,structures and importance of nucleic acids.
B.Sc Biochemistry	FO331	Biochemistry -VII	CO1	Learn the metabolism of carbohydrates in detail.
B.Sc Biochemistry	FO331	Biochemistry -VII	CO2	Identify the classification and characteristics of metabolism of aminoacids.
B.Sc Biochemistry	FO331	Biochemistry -VII	CO3	Deliberate the characteristics of METABOLISM OF NUCELIC ACIDS
B.Sc Biochemistry	FO331	Biochemistry -VII	CO4	Understand the characteristics of PHOTOSYNTHESIS
B.Sc Biochemistry	FO331	Biochemistry -VII	CO5	Understand the classification and characteristics of BIOLOGICAL NITROGEN FIXATION
B.Sc Biochemistry	FO341	Biochemistry -VIII	CO1	Specify the characteristics of immunology techniques
B.Sc Biochemistry	FO341	Biochemistry -VIII	CO2	Learn the concepts of immunology.
B.Sc Biochemistry	FO341	Biochemistry -VIII	CO3	To understand the tools and process of Genetic engineering
B.Sc Biochemistry	FO341	Biochemistry -VIII	CO4	Understanding of fermentors, process and methods of fermentation techology

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	Analytical, Inorganic and Organic Chemistry-1	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	Analytical, Inorganic and Organic Chemistry-1	CO3	The concept of volumetric and gravimetric analysis and deducing the conversion factor for determination
B.Sc Chemistry	DCCH101	Analytical, Inorganic and Organic Chemistry-1	CO4	Handling of toxic chemicals, concentrated acids and organic solvents and practice safety procedures.
B.Sc Chemistry	DCCH101	Analytical, Inorganic and Organic Chemistry-1	CO5	The concepts of Organic reactions and techniques of writing the movement of electrons, bond breaking, bond forming
B.Sc Chemistry	DCCH101	Analytical, Inorganic and Organic Chemistry-1	CO6	The Concept of aromaticity, resonance, hyper conjugation, etc.
B.Sc Chemistry	DCCH101	Analytical, Inorganic and Organic Chemistry-1	CO7	Understand the preparation of alkanes, alkenes and alkynes, their reactions, etc.
B.Sc Chemistry	DCCH101	Analytical, Inorganic and Organic Chemistry-1	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	CHEMISTRY IN DAILY LIFE	CO2	Give details of possible food additives, preservatives, colorants and adulterants commonly used in processed food.
B.Sc Chemistry	OECH111	CHEMISTRY IN DAILY LIFE	CO3	Explain the nutritional aspects of macro and micronutrients, namely oils/fats and vitamins respectively.
B.Sc Chemistry	OECH111	CHEMISTRY IN DAILY LIFE	CO4	Explain the chemistry of daily used products like soaps/detergents, batteries/fuel cells and polymers
B.Sc Chemistry	DCCH201	Analytical/Physical and Organic Chemis	CO1	Explain the principles and concepts related to titrimetric analysis with reference to acid-base, precipitation and complexometric titrations.
B.Sc Chemistry	DCCH201	Analytical/Physical and Organic Chemis	CO2	Handling of toxic chemicals, concentrated acids and organic solvents and practice safety procedures.
B.Sc Chemistry	DCCH201	Analytical/Physical and Organic Chemis	CO3	Write the mechanisms of S_N1 and S_N2 reactions taking suitable examples.

B.Sc Chemistry	DCCH201	Analytical/Physical and Organic Chemis	CO4	Illustrate types of aromatic electrophilic and nucleophilic substitution reactions with examples.
B.Sc Chemistry	DCCH201	Analytical/Physical and Organic Chemis	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	Analytical/Physical and Organic Chemis	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	Analytical/Physical and Organic Chemis	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	Analytical/Physical and Organic Chemis	CO8	Describe the crystalline state in detail using the terms unit cell, Bravias lattices, Miller indices, Crystal systems, symmetry elements and lattice planes.
B.Sc Chemistry	OECH211	Molecules of Life	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	Molecules of Life	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	Molecules of Life	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	Analytical and Organic Chemistry-II	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	Analytical and Organic Chemistry-II	CO3	Understand the requirement for chemical analysis by paper, thin layer and column chromatography.
B.Sc Chemistry	DCCH301	Analytical and Organic Chemistry-II	CO4	Apply solvent extraction method for quantitative determination of metal ions in different samples
B.Sc Chemistry	DCCH301	Analytical and Organic Chemistry-II	CO5	Utilize the ion-exchange chromatography for domestic and industrial applications
B.Sc Chemistry	DCCH301	Analytical and Organic Chemistry-II	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	Analytical and Organic Chemistry-II	CO7	Explain the importance of Stereochemistry in predicting the structure and property of organic molecules.
B.Sc Chemistry	DCCH301	Analytical and Organic Chemistry-II	CO8	Predict the configuration of an organic molecule and able to designate it

Program	Course Code	Course Name	Co Code	CO
B.Sc Chemistry	DCCH401	Inorganic and Physical Chemistry-II	CO1	Predict the nature of the bond formed between different elements .
B.Sc Chemistry	DCCH401	Inorganic and Physical Chemistry-II	CO2	Identify the possible type of arrangements of ions in ionic compounds
B.Sc Chemistry	DCCH401	Inorganic and Physical Chemistry-II	CO3	Write Born - Haber cycle for different ionic compounds
B.Sc Chemistry	DCCH401	Inorganic and Physical Chemistry-II	CO4	Relate different energy parameters like, lattice energy, entropy, enthalpy and solvation energy in the dissolution of ionic solids
B.Sc Chemistry	DCCH401	Inorganic and Physical Chemistry-II	CO5	Explain covalent nature in ionic compounds
B.Sc Chemistry	DCCH401	Inorganic and Physical Chemistry-II	CO6	Write the M.O. energy diagrams for simple molecules
B.Sc Chemistry	DCCH401	Inorganic and Physical Chemistry-II	CO7	Differentiate bonding in metals from their compounds
B.Sc Chemistry	DCCH401	Inorganic and Physical Chemistry-II	CO8	Learn important laws of thermodynamics and their applications to various thermodynamic systems
B.Sc Chemistry	DCCH401	Inorganic and Physical Chemistry-II	CO9	Understand adsorption processes and their mechanisms and the function and purpose of a catalyst
B.Sc Chemistry	DCCH401	Inorganic and Physical Chemistry-II	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	Inorganic and Physical Chemistry-II	CO11	Know different types of electrolytes, usefulness of conductance and ionic mobility measurements

Program	Course Code	Course Name	Co Code	CO
B.Sc Chemistry	EO231	chemistry -V	CO1	Learning the synthesis and structural elucidation of citral,Zingiberene and nicotine
B.Sc Chemistry	EO231	chemistry -V	CO2	Understanding of Heterocyclic compounds and amines in detail
B.Sc Chemistry	EO231	chemistry -V	CO3	To learn the structures and importance of terpenes,carbohydrates and alkaloids.
B.Sc Chemistry	EO231	chemistry -V	CO4	structure elucidation of organic compounds using spectroscopic techniques
B.Sc Chemistry	EO231	chemistry -V	CO5	understand the concepts of stereochemistry.
B.Sc Chemistry	EO241	chemistry -VI	CO1	Deliberate the details of Electrochemistry I
B.Sc Chemistry	EO241	chemistry -VI	CO2	Specify in details with applications of Chemical Spectroscopy
B.Sc Chemistry	EO241	chemistry -VI	CO3	Identify the classification and characteristics of Electroanalytical Methods
B.Sc Chemistry	EO241	chemistry -VI	CO4	Understanding of Ionic equilibria.
B.Sc Chemistry	F0231	chemistry -VII	CO1	To understand the chemistry of coordination compounds and their biological importance
B.Sc Chemistry	FO231	chemistry -VII	CO2	To learn the types and applications of industrial materials
B.Sc Chemistry	F0231	chemistry -VII	CO3	To learn about the organometallic compounds and their structure
B.Sc Chemistry	FO231	chemistry -VII	CO4	To introduce the newer materials in chemistry and to discuss their properties and relevance
B.Sc Chemistry	FO331	chemistry -VIII	CO1	Understanding of Carbohydrates,lipids,proteins with examples
B.Sc Chemistry	FO241	chemistry -VIII	CO2	Knowledge on metabolism of carbohydrates,lipids and proteins.
B.Sc Chemistry	FO241	chemistry -VIII	CO3	Understand the principle,procedure and applications of BiochemicalTechniques
B.Sc Chemistry	FO241	chemistry -VIII	CO4	Knowledge on Nucleic acids and enzymes
B.Sc Chemistry	FO241	chemistry -VIII	CO5	understanding of molecularbiology

		Program		
		M.Sc Biochemistry		
		FIRST SEMESTER		

	Program	Course Code	Course Name	Co Code	CO
	M.Sc Biochemistry	BCHT-01	Biophysical and General Chemistry	CO1	Students got the knowledge of basic chemical and bio-physical properties of water
	M.Sc Biochemistry	BCHT-02	Biophysical and General Chemistry	CO2	Students have learnt about basic concepts of thermodynamics and Stereochemistry aspects
	M.Sc Biochemistry	BCHT-03	Biophysical and General Chemistry	CO4	Students have learnt about fundamental chemical properties and functions of free radicals, biological heterocylic compounds and bio-inorganic chemistry
	M.Sc Biochemistry	BCHT-04	Biophysical and General Chemistry	CO3	These topics given biochemistry students to know about the fundamental mechanisms and rearrangements of common chemical reactions
	M.Sc Biochemistry	BCHT-02	Metabolism	CO1 and CO2	Students able to understand the mechanisms of energy metabolisms in cells and think critically what will happen if mutations happen to the enzymes involved in it
	M.Sc Biochemistry	BCHT-03	Metabolism	CO3	Students seminars and assignments will give knowledge on how biological processes involved in cells
	M.Sc Biochemistry	BCHT-04	Metabolism	CO4	Internal exams and quick tests in classroom make students to read the mechanisms and able to think critically
	M.Sc Biochemistry	BCHT-05	Metabolism	CO6	Lab practicals of estimations of glucose, Cholesterol etc by biochemical processes involved in cells make students understand the subjects easily
	M.Sc Biochemistry	BCHT-06	Metabolism	CO7	Students will be able to read the research papers and understand the concepts with the help of teachers in classroom discussions
	M.Sc Biochemistry	BCHT-03	Analytical Biochemistry-I	CO1	Students have learnt about introductory topics of various biochemical investigation methods
	M.Sc Biochemistry	BCHT-04	Analytical Biochemistry-I	CO2	Students got the detailed knowledge of microscopy and fluorescence microscopy
	M.Sc Biochemistry	BCHT-05	Analytical Biochemistry-I	CO3	Students got knowledge about detailed concepts related to centrifugation and biocalorimetry
	M.Sc Biochemistry	BCHT-06	Analytical Biochemistry-I	CO4	Students have understood about manometry and its applications and principles and applications of biocalorimetry
	M.Sc Biochemistry	BCHT-07	Analytical Biochemistry-I	CO5	Students got the knowledge on different radio-isotope methods used in biochemistry
	M.Sc Biochemistry	BCHT-08	Analytical Biochemistry-I	CO6	This chapter given information related to various statistical methods used in biochemistry research

	M.Sc Biochemistry	BCHT-04	General Physiology	CO1	Students got the knowledge of Collagens – types, composition, structure and synthesis, Elastin,
	M.Sc Biochemistry	BCHT-05	General Physiology	CO2	Students have learnt about basic concepts of Nervous system and muscular aspects
	M.Sc Biochemistry	BCHT-06	General Physiology	CO3	These topics given biochemistry students to know about the fundamental mechanisms of Liver and liver function test
	M.Sc Biochemistry	BCHT-07	General Physiology	CO4	Students have learnt about Cardio vascular system and mechanism of blood clotting
	M.Sc Biochemistry	BCHT-05	Clinical Biochemistry & Nutrition	CO1	Students got the knowledge of collection methods, tests and clinical significance of urinary compounds, stool ánd CSF
	M.Sc Biochemistry	BCHT-06	Clinical Biochemistry & Nutrition	CO2	Students have learnt in detail about metabolic disorders
	M.Sc Biochemistry	BCHT-07	Clinical Biochemistry & Nutrition	CO3	These topics given biochemistry students to know about the hemorrhagic disorders and Disorders of liver and kidney
	M.Sc Biochemistry	BCHT-08	Clinical Biochemistry & Nutrition	CO4	Students have learnt about fundamental concepts of nutrition, basal metabolism, Protein nutrition and deficiency disease of Vitamins and Minerals
	M.Sc Biochemistry	BCHT-09	Clinical Biochemistry & Nutrition	CO5	Students have learnt about malnutrition, Recommended dietary allowances and its prevention
	M.Sc Biochemistry	BCHP-06	General Biochemistry Practical	CO	Experiential Handson Skills in Biochemistry Practicals
	M.Sc Biochemistry	BCHP-07:	Bioanalytical Techniques	CO	Experiential Handson Skills in Biochemistry Practicals
	M.Sc Biochemistry			SECOND SEMESTER	
	M.Sc Biochemistry	BCHT-08	Protein Structure & Enzymology	CO1	Students have learnt about introductory topics of primary, seconday and Tertiary, Quaternary structure
	M.Sc Biochemistry	BCHT-09	Protein Structure & Enzymology	CO2	Students got the detailed knowledge of investigation of active site structure
	M.Sc Biochemistry	BCHT-10	Protein Structure & Enzymology	CO3	Students got knowledge about Mechanisms of action of the enzymes-lysozyme, ribonuclease, lactate dehydrogenase, serine proteases.
	M.Sc Biochemistry	BCHT-11	Protein Structure & Enzymology	CO4	Students have understood about Kinetic data evaluation-Michaelis-Menten equation. Haldane equation. King-Altman rate equation. Arrhenius plot.
	M.Sc Biochemistry	BCHT-12	Protein Structure & Enzymology	CO5	Students got the knowledge onTypes of reversible and irreversible inhibitors
	M.Sc Biochemistry	BCHT-13	Protein Structure & Enzymology	CO6	This chapter given information related to various statistical methods used in biochemistry research
	M.Sc Biochemistry	BCHT-09	BCHT-09: Metabolism-II	CO1	Students have learnt in detail about Lipids Metabolism and the general concepts of nitrogen fixation, regulation and utilization
	M.Sc Biochemistry	BCHT-10	BCHT-09: Metabolism-II	CO2	Students got exposed to basics of General metabolic reaction of amino acids
	M.Sc Biochemistry	BCHT-11	BCHT-09: Metabolism-II	CO3	Students learnt in detail about Degradation and Biosynthesis of the individual amino acids
	M.Sc Biochemistry	BCHT-12	BCHT-09: Metabolism-II	CO4	Students understood the Biosynthesis and degradation of purine and pyrimidine nucleotides, porphyrins and phenolic metabolism in detail
	M.Sc Biochemistry	BCHT-10	BCHT-10: Analytical Biochemistry-II	CO1	Students have learnt about detailed prinicples, design and applications of different chromatography methods
	M.Sc Biochemistry	BCHT-11	BCHT-10: Analytical Biochemistry-II	CO2	Students got exposed to basics of gas chromatography and its applications
	M.Sc Biochemistry	BCHT-12	BCHT-10: Analytical Biochemistry-II	CO3	Students learnt about various electrophoresis methods and its applications
	M.Sc Biochemistry	BCHT-13	BCHT-10: Analytical Biochemistry-II	CO4	Students understood the concepts of various spectroscopic methods and its applications
	M.Sc Biochemistry	BCHT-14	BCHT-10: Analytical Biochemistry-II	CO5	Students have learnts about proteomics and metabolomics concepts
	M.Sc Biochemistry	BCHT-11	Immunology & Microbiology	C01	Immunology topics makes students understand the mechanisms of immune cells and think critically what will happen if cells fail to fight against pathogens critically
	M.Sc Biochemistry	BCHT-12	Immunology & Microbiology	C02	Students will be able to draw schematic representation pictures based on the concepts of antigen and antibody reactions etc
	M.Sc Biochemistry	BCHT-13	Immunology & Microbiology	C04	Microbiology topics makes students to focus more on theories and experiments understanding how to be accurate when any experiment is done
	M.Sc Biochemistry	BCHT-14	Immunology & Microbiology	C06	Bacterial culture, bacterial growth, plasmid extraction etc lab practicals makes students able to understand the concepts easily
	M.Sc Biochemistry	BCHT-15	Immunology & Microbiology	C07	Guest lectures and seminars conducted by department along with articles reading makes students get interested in research
	M.Sc Biochemistry	BCHT-12	Bioinformatics & Research Methodology	CO1	Students learnt about introductory concepts related to bioinformatics
	M.Sc Biochemistry	BCHT-13	Bioinformatics & Research Methodology	CO2	Students got exposed to different data base applications in bioinformatic research
	M.Sc Biochemistry	BCHT-14	Bioinformatics & Research Methodology	CO3	Students have learnt about details of high-throuput data, annotations and structure predictions
	M.Sc Biochemistry	BCHT-15	Bioinformatics & Research Methodology	CO4	This chapter given knowledge on various research methodologies, literature collection methods and different presentation methods
	M.Sc Biochemistry	BCHP-13	BCHP-13: Immunochemistry & Informa	CO	Experiential Handson Skills in Biochemistry Practicals
	M.Sc Biochemistry	BCHP-14	BCHP-14: Enzymology	CO	Experiential Handson Skills in Biochemistry Practicals
	M.Sc Biochemistry			THIRD SEMESTER	
	M.Sc Biochemistry	BCHT-15	Molecular Biology-I	CO1	Studentds have got knowledge on introductory information about molecular biology and its applications at present
	M.Sc Biochemistry	BCHT-16	Molecular Biology-I	CO2	Students have got knowledge of prokaryotic DNA replication and eukaryotic DNA replication
	M.Sc Biochemistry	BCHT-17	Molecular Biology-I	CO3	Students got knowledge on DNA repair mechanisms
	M.Sc Biochemistry	BCHT-18	Molecular Biology-I	CO4	Students have learnt about prokaryotic and eukaryotic transcription mechanisms and regulations
	M.Sc Biochemistry	BCHT-19	Molecular Biology-I	CO5	Students got knowledge on ribosomes in prokaryotes and eukaryotes; about the detailed mechanisms of translation and genetic code
	M.Sc Biochemistry	BCHT-16	Biochemistry of Cell Signaling	CO1	Students have understood about basic principles of signal transduction
	M.Sc Biochemistry	BCHT-17	Biochemistry of Cell Signaling	CO2	Students have learnt details of G-protein coupled receptor signaling pathway and its functions
	M.Sc Biochemistry	BCHT-18	Biochemistry of Cell Signaling	CO3	Students got knowledge on serine-threonine specific protein kinases and phosphatases
	M.Sc Biochemistry	BCHT-19	Biochemistry of Cell Signaling	CO4	Students have learnt about second messengers and intracellular signaling proteins
	M.Sc Biochemistry	BCHT-20	Biochemistry of Cell Signaling	CO5	Students got knowledge on cytokines - interferon family and its pathways and about the details of cell cycle regulation
	M.Sc Biochemistry	BCHT-21	Biochemistry of Cell Signaling	CO6	Students have learnt in detail about the mechanisms and regulations of apoptosis and cancer

Program	CourseCode	CourseName	COCode	CO
M.Sc Biochemistry	BCHT-17	Membrane Biochemsitry	CO1 and CO	Membrane structure and mechanisms involved in plasmamembrane will make students think critically of cellular functions
M.Sc Biochemistry	BCHT-18	Membrane Biochemsitry	CO3	Experimental procedures involved in few chapters taught by teachers make students able to design the experiments and research protocol
M.Sc Biochemistry	BCHT-19	Membrane Biochemsitry	CO4	Students will be able to write the assignments and give seminars on few topics. This practice will make students to read and interact with teachers for any clarification
M.Sc Biochemistry	BCHT-20	Membrane Biochemsitry	CO5	Few theory topics in thgis course involves experimental procedures and this makes both students And teachers to discuss the research proposal writing part etc.
M.Sc Biochemistry		BCHT-18: OPEN ELECTIVE (Management Perspectives)		
M.Sc Biochemistry	BCHP-19	Clinical Biochemistry	CO	Experiential Handson Skills in Biochemistry Practicals
M.Sc Biochemistry	BCHP-20	Molecular Biology Practicals	CO	Experiential Handson Skills in Biochemistry Practicals
M.Sc Biochemistry			FORTH SEMESTER	
M.Sc Biochemistry	BCHT-21	Gene Regulation & Genomics	CO1	Students have learnt about gene expression and regulation in prokaryotes and eukaryotes
M.Sc Biochemistry	BCHT-22	Gene Regulation & Genomics	CO2	This chapter given information related to different transcriptional activators in the cells and regulation of gene expression via stability of mRNA
M.Sc Biochemistry	BCHT-23	Gene Regulation & Genomics	CO3	Students have learnt about RNA interference and its role in normal cells and in pathology
M.Sc Biochemistry	BCHT-24	Gene Regulation & Genomics	CO4	This chapter given complete information of genomics and functional genomics with respect to principles and various techniques used at present
M.Sc Biochemistry	BCHT-22	Molecular Genetics	CO1	Students have learnt about Chromosomes and genes, mutation.
M.Sc Biochemistry	BCHT-23	Molecular Genetics	CO2	Students got exposed to basics of classical genetics, Mendelian laws,Morgan's discovery
M.Sc Biochemistry	BCHT-24	Molecular Genetics	CO3	Students learnt about Breeding analysis, genetics basis of quantitative variation.
M.Sc Biochemistry	BCHT-25	Molecular Genetics	CO4	Students understood the concepts of Chromosomal analysis (in vitro, in vivo), gene mapping,
M.Sc Biochemistry	BCHT-26	Molecular Genetics	CO5	Students have learnts about recombination, trnasduction, transformation concepts
M.Sc Biochemistry	BCHT-23: Genetic Engineeri	BCHT-23: Genetic Engineering	CO1	This chapter given information related to various Restriction and modifying enzymes
M.Sc Biochemistry	BCHT-23: Genetic Engineeri	BCHT-23: Genetic Engineering	CO2	Students have got knowledge on basic concepts of cloning and Expression vectors
M.Sc Biochemistry	BCHT-23: Genetic Engineeri	BCHT-23: Genetic Engineering	CO3	Students got knowledge on genomic library construction and Screening, Discovery, principle, procedure and application of PCR
M.Sc Biochemistry	BCHT-23: Genetic Engineeri	BCHT-23: Genetic Engineering	CO4	Students learnt about Gene transfer to animal and plant cells in detail
M.Sc Biochemistry	BCHT-23: Genetic Engineeri	BCHT-23: Genetic Engineering	CO5	Students got exposed to different Fermentation process, downstream process operations, Nano and Industrial biotechnology concepts
M.Sc Biochemistry	BCHT-23: Genetic Engineeri	BCHT-23: Genetic Engineering	CO6	Students have learnt about details of Intellectual property and Ethical values in IP
M.Sc Biochemistry	BCHT-24: Drug Discovery &	BCHT-24: Drug Discovery & Clinical Rese	CO1	Students have got the introductory information related to drug discovery cycle in industries
M.Sc Biochemistry	BCHT-24: Drug Discovery &	BCHT-24: Drug Discovery & Clinical Rese	CO2	Students have learnt about details of drug targets and drug metabolisms
M.Sc Biochemistry	BCHT-24: Drug Discovery &	BCHT-24: Drug Discovery & Clinical Rese	CO3	This chapter given students about the details of drug discovery and development cycle
M.Sc Biochemistry	BCHT-24: Drug Discovery &	BCHT-24: Drug Discovery & Clinical Rese	CO4	Students have got knowledge on clincal trials and pre-clincal toxicology
M.Sc Biochemistry	BCHT-24: Drug Discovery &	BCHT-24: Drug Discovery & Clinical Rese	CO5	Students have learnt about bioavailability and bioequevalence studies
M.Sc Biochemistry	BCHT-24: Drug Discovery &	BCHT-24: Drug Discovery & Clinical Rese	CO6	Students have learnt about different terminology used in clinical research and pharmacovigilence
M.Sc Biochemistry	BCHP-25: Genetic Engineering & Protein Chemistry	BCHP-25: Genetic Engineering & Protein Chemistry	CO	Experiential Handson Skills in Biochemistry Practicals
M.Sc Biochemistry	Project	Project	CO	Experiential Handson Skills in Biochemistry Practicals

Course Outcomes for Msc(Chem) Program

Program	CourseCode	CourseName	COCode	CO
M.Sc Chemistry	C-102	Organic Chemistry I	C-102-4	Students attained the detail knowledge of biomolecules like carbohydrates & vitamins .
M.Sc Chemistry	C-102	Organic Chemistry I	CO3	
M.Sc Chemistry	C-102	Organic Chemistry I	C-102-5	student attained the knowledge of synthesis of heterocyclic compounds and their biological uses
M.Sc Chemistry	C-201	InorganicChemistry- II	C201	Electronic spectra of coordination compunds; students gained knowledge about spectroscopic gound state, orgel diagrams, Tanaube-Sugano diagrams, spectral properties of Lanthanides and actinides metal
M.Sc Chemistry	C-201	InorganicChemistry- II	C201	Magnetic properties of coordination compounds; students gained knowledge about types of magnetic behaviour, susceptibility and its determination, photochemical reactions of transition metal complexes
M.Sc Chemistry	C-202	Organic Chemistry II	C202_1	Students gained detailed knowledge on reaarrangement reaction of organic compounds and their mechanism
M.Sc Chemistry	C-202	Organic Chemistry II	C202_3	Students gained knowledge on Vitamines, synthesis and their biological roles
M.Sc Chemistry	C-202	Organic Chemistry II	C202_2	Students gained detailed knowledge on Amino acids and peptides synthesis
M.Sc Chemistry	C-203	Physical Chemistry II	C203_1	1. Students gained knowledge in thermodynamics-I: partial molar properties, phase rule, introduction to statistical thermodynamics
M.Sc Chemistry	C-203	Physical Chemistry II	C203_2	2. Students are able to understand concept of distribution laws of statistical thermodynamics and non equilibrium thermodynamics
M.Sc Chemistry	C-203	Physical Chemistry II	C203_3	3. Students gained knowledge in Electrochemistry: Debye-Huckel theory of strong electrolytes, Thermodynamics of electrified interfaces
M.Sc Chemistry	C-203	Physical Chemistry II	C203_4	4. Students gained knowledge in Electrochemistry-II; Structure of electrical double layers, overpotential, polarography
M.Sc Chemistry	C-301-OC	Organic Reaction Mechanisms		Organic Reaction Mechanism- Offers aliphatic substitution reactions, free radical chemistry, photochemistry and pericyclic chemistry and structural, mechanistic, functional and regulatory aspects of enzymes and coenzymes. Students are getting exposed
				continued through Organic reaction paper-II. This paper gives the knowledge of advanced biochemical reaction, photochemistry and pericyclic chemistry to students by the end of the course
M.Sc Chemistry	C-302-OC	Chemistry of Natural Products	C-302 - 1	Students attained the knowledge of Terpenoids and carotenoids
M.Sc Chemistry	C-302-OC	Chemistry of Natural Products	C-302-2	Students attained the knowledge of Alkaloids i.e.nomenclature,Isolation, structure elucidation, synthesis and biosynthesis
M.Sc Chemistry	C-302-OC	Chemistry of Natural Products	C-302-3	Students attained the Detailed knowledge of porphyrins-haemin and chlorophyll and vit B12

Program	Code	Course	CO	Outcome
M.Sc Chemistry	C-302-OC	Chemistry of Natural Products	C-302-4	student learned the detailed knowledge of synthesis of oligonucleotides
M.Sc Chemistry	C-302-OC	Chemistry of Natural Products	C-302-5	Students attained the detail knowledge of synthesis of prostaglandins and Insect Pheromones
M.Sc Chemistry	C-303-OC	Organic Spectroscopy	CO1	Organic Spectroscopy- Offers UV- Vis spectroscopy, Infrared Spectroscopy, NMR spectroscopy and Mass Spectroscopy. Students are getting exposed to various spectroscopic techniques which are essential for structural elucidation. This paper gives the knowledge of
M.Sc Chemistry	C-305-OC	Organic Chemistry Practicals-I	CO1	Organic chemistry practicals I- At the end of the course students are able to carryout single step synthesis.
M.Sc Chemistry	C-306-OC	Organic Chemistry Practicals-II	CO1	Organic chemistry practicals II- At the end of the course students are able to identify the functional group by qualitative analysis.
M.Sc Chemistry	C-307-OC	Organic Chemistry Practicals-III	CO1	Organic chemistry practicals III- At the end of the course students are able to carryout Multi-step synthesis
M.Sc Chemistry	C-308-OC	Organic Chemistry Practicals-IV	CO1	Organic chemistry practicals IV- At the end of the course students are able to estimate the functional group quantitatively by various methods.
M.Sc Chemistry	C-403-OC	Organic Synthesis	C-403- III	Students attained the detail knowledge of use of reagents in Oxidation reactions
M.Sc Chemistry	C-403-OC	Organic Synthesis	C-403-II	Students attained the detail knowledge of use of the reagents in organic synthesis.
M.Sc Chemistry	C-403-OC	Organic Synthesis	C-403- IV	Students attained the detail knowledge of use of reagents in Reduction reactions.
M.Sc Chemistry	C-404-OC	Medicinal Organic Chemistry	CO1	Students attained the detail knowledge on steroids
M.Sc Chemistry	C-404-OC	Medicinal Organic Chemistry	CO2	Students attained the detail knowledge on antibiotics
M.Sc Chemistry	C-404-OC	Medicinal Organic Chemistry	CO3	Students attained the detail knowledge on synthesis of drugs and their mode of action

Course Outcomes – Psychology

Program	Code	Course	CO	Outcome
Psychology	DSC 1	Foundations of Psychology	CO1	Understand the history and basic goals of Psychology.
Psychology	DSC 2	Foundations of Psychology	CO2	Get the basic understanding of connection between mind and body as they read basic biology.
Psychology	DSC 3	Foundations of Psychology	CO3	Understand the principles behind attention and perception.
Psychology	DSC 4	Foundations of Psychology	CO4	Learn the processes of memory and learning.
Psychology	OEC	Youth Gender and Identity (OEC)	CO1	Understanding the spectrum of health and illness for better health management.
Psychology	OEC	Youth Gender and Identity (OEC)	CO2	Understanding a variety of health announcing health protective and health compromising behaviors and to be able to know their application in illness
Psychology	OEC	Youth Gender and Identity (OEC)	CO3	Identifying stresses in one's life and how to manage them.
Psychology	OEC	Youth Gender and Identity (OEC)	CO4	Apply health protective behavior for the healthy self and society
Psychology	III Sem	Child Psychology	CO1	Understand principles and different areas of child psychology.
Psychology	III Sem	Child Psychology	CO2	Better understanding of overall development during childhood period.
Psychology	III Sem	Child Psychology	CO3	Learn more about childhood behavior and common disorders developed during childhood.
Psychology	IV Sem	Social Psychology	CO1	Identify and understand the major theories, principles and research findings in the field of social psychology.
Psychology	IV Sem	Social Psychology	CO2	Apply social psychological theories and principles to real life experiences, both in one's own life and in a broader social context.
Psychology	IV Sem	Social Psychology	CO3	Appreciating interpersonal and group level psychological processes in the cultural context, this paper analyses multimodal influences on human behavior.
Psychology	IV Sem	Social Psychology	CO4	Apply Psychological concepts, theories and research findings to solve problems in everyday life and in society.
Psychology				
Psychology	Paper V	Abnormal Psychology	CO1	To differentiate between 'normal' and 'abnormal' behavior.
Psychology	Paper V	Abnormal Psychology	CO2	To understand main classification system of psychological disorders.
Psychology	Paper V	Abnormal Psychology	CO3	To be aware of the different theoretical perspective in understanding psychological disorders.
Psychology	Paper V	Abnormal Psychology	CO4	To understand signs and symptoms of different psychological disorders.
Psychology	Paper V	Abnormal Psychology	CO5	To provide an insight into criteria's for diagnosing of abnormal behavior of varying severities.
Psychology	Paper VI	Counseling Psychology	CO1	To develop an understanding of basic concepts, processes and teaching of counseling.
Psychology	Paper VI	Counseling Psychology	CO2	To enable the students to explore the different theories of counseling psychology.
Psychology	Paper VI	Counseling Psychology	CO3	To enable the students to acquire sufficient knowledge about the assumptions and issues in the area of counseling.
Psychology	Paper VI	Counseling Psychology	CO4	To provide an overview and understanding of the counselling profession.
Psychology	Paper VII	Organizational Behavior	CO1	To provide insights into the historical development & key concepts of functioning of organizations.
Psychology	Paper VII	Organizational Behavior	CO2	To help students to understand the role of human factor in the context of organizations & work behavior & management.
Psychology	Paper VII	Organizational Behavior	CO3	To help students understand the role of psychology in managing key areas of work like Recruitment, Training and Development.
Psychology	Paper VII	Organizational Behavior	CO4	To understand the meaning and theoretical foundations of Industrial Psychology.
Psychology	Paper VII	Organizational Behavior	CO5	To develop an understanding of how the various theories and methods of I/O Psychology apply to the real work settings.
Psychology	Paper VIII	Health Psychology	CO1	To deal with the health and well-being of individuals and the ways to sustain them.
Psychology	Paper VIII	Health Psychology	CO2	To understand the relationship between psychological factors and physical health and learn how to enhance well-being.
Psychology	Paper VIII	Health Psychology	CO3	To make awareness about the stress and coping behavior of individuals in various life situations.
Psychology	Paper VIII	Health Psychology	CO4	To create awareness about the scope of health psychology and its role in achievement and maintenance of health.

Course outcome (CO) for M.Sc. Biotechnology

M.Sc. Biotechnology	BTH101	Cell Biology and Genetics	CO1	Learn the Basic characteristics of the cell structure and organization
M.Sc. Biotechnology	BTH101	Cell Biology and Genetics	CO2	Understanding the basic characteristics of Membrane transport and cell sigaling
M.Sc. Biotechnology	BTH101	Cell Biology and Genetics	CO3	Identifying the classification and characteristics of Cell cycle
M.Sc. Biotechnology	BTH101	Cell Biology and Genetics	CO4	To deliberate in details with examples Antioxidant defense system and senescence
M.Sc. Biotechnology	BTH101	Cell Biology and Genetics	CO5	Understand basic information on molecular mechanisms by which genetic material controls development, growth or morphological characteristics of organisms
M.Sc. Biotechnology	BTH-102	Molecular Genetics	CO1	Provides basic information on the molecular mechanisms by which genetic material controls development, growth or morphological characteristics of organisms
M.Sc. Biotechnology	BTH-102	Molecular Genetics	CO2	understand the historical developments of scientific discoveries and their impacts on the development of biological methods
M.Sc. Biotechnology	BTH-102	Molecular Genetics	CO3	Explains the introduction of mutations due to the gene alterations that can be used for development of therapeutic agents
M.Sc. Biotechnology	BTH103	General Microbiology	CO1	To understand the system of classification and techniques in Micobiology
M.Sc. Biotechnology	BTH103	General Microbiology	CO2	To study the general properties, structure and reproduction of Prokaryotic microorganisms
M.Sc. Biotechnology	BTH103	General Microbiology	CO3	To study the structure, characteristics and diseases caused Acellular entities
M.Sc. Biotechnology	BTH103	General Microbiology	CO4	To study the different parameters in microbial growth and control and to study the different microbiological methods
M.Sc. Biotechnology	BTC:104	Biochemistry	CO1	To study the concept of Principles of Bioenergetics
M.Sc. Biotechnology	BTC:104	Biochemistry	CO2	To understand the concept of oxidative phosphorylation
M.Sc. Biotechnology	BTC:104	Biochemistry	CO3	To study the structure and functions of lipids and nucleic acids
M.Sc. Biotechnology	BTS:105	Biostatistics	CO1	Studying basic concepts of Biostatistics, its techniques and applications inn Biotechnology
M.Sc. Biotechnology	BTS:105	Biostatistics	CO2	Analysis of properties of Data and Variance
M.Sc. Biotechnology	BTS:105	Biostatistics	CO3	Testing of hypothesis, probability and Statistical package
M.Sc. Biotechnology	BTH:201	Biochemical Technique and Enzymology	CO1	Adopting various techniques in biological research.
M.Sc. Biotechnology	BTH:201	Biochemical Technique and Enzymology	CO2	Employability in Analytical laboratories and research institues
M.Sc. Biotechnology	BTH:201	Biochemical Technique and Enzymology	CO3	Implementation of research ideas at Molecular level.
M.Sc. Biotechnology	BTH:201	Biochemical Technique and Enzymology	CO4	To learn the significant features of the biochemical catalysts.
M.Sc. Biotechnology	BTH:201	Biochemical Technique and Enzymology	CO5	Adopting various techniques in biological research
M.Sc. Biotechnology	BTH:202	Molecular Biology	CO1	The student will gain a basic understanding on human genetics and hereditary
M.Sc. Biotechnology	BTH:202	Molecular Biology	CO2	They learn about DNA, RNA and their replication, mutations, DNA repair mechanism
M.Sc. Biotechnology	BTH:202	Molecular Biology	CO3	Students learn about transgenic animal their application in pharmaceutical industry, cloning and its importance.
M.Sc. Biotechnology	BTH:202	Molecular Biology	CO4	To understand translation and regulation of Gene expression
M.Sc. Biotechnology	BTH 203	Immunology and Immunotechnology	CO1:	To learn basic of Immune system and Immune Response.
M.Sc. Biotechnology	BTH 203	Immunology and Immunotechnology	CO2:	To understand concepts of Antigens and Antibodies and Major Histocomaptibility complex and Transplantation
M.Sc. Biotechnology	BTH 203	Immunology and Immunotechnology	CO3	To know about Hypersensitivity Reactions: Lymphokines and Cytokines
M.Sc. Biotechnology	BTH 203	Immunology and Immunotechnology	CO4	To learn Autoimmunity and Immunomodulation
M.Sc. Biotechnology	BTH 203	Immunology and Immunotechnology	CO5:	To understand Immunological Techniques and Immunization: Vaccines and Toxicides
M.Sc. Biotechnology	BTH 204	Environmental Biotechnology	CO1:	Environmental problems, impacts and remedies
M.Sc. Biotechnology	BTH 204	Environmental Biotechnology	CO2:	Biodiversity and its status.
M.Sc. Biotechnology	BTH 204	Environmental Biotechnology	CO3	Bioremediation in various industries
M.Sc. Biotechnology	BTH 204	Environmental Biotechnology	CO4	Biodiesel and Biofuel from biowastes
M.Sc. Biotechnology	BTH 204	Environmental Biotechnology	CO5:	Conservation and natural resources
M.Sc. Biotechnology	BTS 205	Bioinformatics	CO1:	Basic study on Introduction to Computers
M.Sc. Biotechnology	BTS 205	Bioinformatics	CO2:	Skill learning on Computer newtork
M.Sc. Biotechnology	BTS 205	Bioinformatics	CO3	Biological data analysis and Practical statistics for Experimental biology
M.Sc. Biotechnology	BTS 205	Bioinformatics	CO4	Biodiesel and Biofuel from biowastes
M.Sc. Biotechnology	BTS 205	Bioinformatics	CO5:	Conservation and natural resources
M.Sc. Biotechnology	BTH 302	Animal Biotechnology	CO1:	Studying basic concepts of Plant Tissue Culture and its applications
M.Sc. Biotechnology	BTH 302	Animal Biotechnology	CO2:	Skills on callusing, Rooting, shooting and hardening of explants and organs
M.Sc. Biotechnology	BTH 302	Animal Biotechnology	CO3:	Explains role of Biofertilizers mycorrhiza in growth of crop plants. Recycling of biodegradable wastes.
M.Sc. Biotechnology	BTH 302	Animal Biotechnology	CO4:	Update plant selection hybrid and selection of hybrid.
M.Sc. Biotechnology	BTH 302	Animal Biotechnology	CO5:	Analyze the crop improvement through Biotechnology
M.Sc. Biotechnology	BTH 303	Genetic Engineering	CO1:	To learn the scope and importance of Genetic Engineering
M.Sc. Biotechnology	BTH 303	Genetic Engineering	CO2:	Tools of Genetic engineering and various vectors used.

M.Sc. Biotechnology	BTH 303	Genetic Engineering	CO3:	Understand the gene cloning strategies and construction of Gene librabries, Selectin, screening and analysis of recombinants.
M.Sc. Biotechnology	BTH 303	Genetic Engineering	CO4:	Students learn various transformation techniques.
M.Sc. Biotechnology	BTH 303	Genetic Engineering	CO5:	Knowledge about labelling and detection techniques and chemical synthesis of genes and PCR will be trained with practical applications
M.Sc. Biotechnology	BTH 304	Management prospectives	CO1:	To exploring ideas and appreciate how organizational structure and culture contribute to management control in organizations.
M.Sc. Biotechnology	BTH 304	Management prospectives	CO2:	To think about how to analyze an organization
M.Sc. Biotechnology	BTH 304	Management prospectives	CO3:	Helping students in creative problem solving and making connections, and to understand an organization characteristics and how they might impact on management practices.
M.Sc. Biotechnology	BTH 305	Plant and Agricultural and Animal Biotechnology	CO1:	To study basic concepts of Plant Tissue culture and its applications.
M.Sc. Biotechnology	BTH 305	Plant and Agricultural and Animal Biotechnology	CO2:	To learn on hands training on callusing, rooting shooting and hardening cultures.
M.Sc. Biotechnology	BTH 305	Plant and Agricultural and Animal Biotechnology	CO3:	To understand and learn role of different Biofertilizers and its effects of growth on crop plans and hybridization technique in crop improvements.
M.Sc. Biotechnology	BTH 305	Plant and Agricultural and Animal Biotechnology	CO4:	learn the different applications of animal biotechnology.
M.Sc. Biotechnology	BTH 306	Genetic engineering and Biofinformatics	CO1:	Learn the methods of production of transgenic animals and animal cloning and its applications.
M.Sc. Biotechnology	BTH 306	Genetic engineering and Biofinformatics	CO2:	Analyzing and determining nucleic acids by different types of blotting methods
M.Sc. Biotechnology	BTH 306	Genetic engineering and Biofinformatics	CO3:	To search Restriction mapping, sequence (FASTA and BLAST) in soft wares
M.Sc. Biotechnology	BTH 306	Genetic engineering and Biofinformatics	CO4:	The evolutionary studies/phylogenetic analysis in soft skills, learn MS Excel program for various variances in biological experiments.
M.Sc. Biotechnology	BTH 401	Biochemical Process	CO1:	To know the scope and importance of Bioprocess engineering.
M.Sc. Biotechnology	BTH 401	Biochemical Process	CO2:	To study the design and functions of bioreactors.
M.Sc. Biotechnology	BTH 401	Biochemical Process	CO3:	To understand the concept of immobilization, biotransfomation and some industrially important products.
M.Sc. Biotechnology	BTH 401	Biochemical Process	CO4:	To know about the intellectual property rights (IPRs) and Entrepreneurship.
M.Sc. Biotechnology	BTH 402	Medical Biotechnology	CO1:	Understanding the causes, methods of detection and treatment of cancer
M.Sc. Biotechnology	BTH 402	Medical Biotechnology	CO2:	Understands the methods of evaluation of different organ function tests.
M.Sc. Biotechnology	BTH 402	Medical Biotechnology	CO3:	Understands the synthesis of nanostructures and applications of nanomaterials.
M.Sc. Biotechnology	BTH 402	Medical Biotechnology	CO4:	Understand the discovery and development of drugs and different therapies for treating he human diseases and the clinical research, clinical trains and ICH.
M.Sc. Biotechnology	BTH 403	Genomics and Proteomics	CO1:	To know the concepts of genomics, Transcriptomics metabolomics and to study the various sequencing methods.
M.Sc. Biotechnology	BTH 403	Genomics and Proteomics	CO2:	To study the various genome sequencing methds
M.Sc. Biotechnology	BTH 403	Genomics and Proteomics	CO3:	To understand the concept of functional and comparative genomics
M.Sc. Biotechnology	BTH 403	Genomics and Proteomics	CO4:	To know about proteomics and to study about metabolomic
M.Sc. Biotechnology	BTH 404	Bioprocess engineering and Medical Biotechnology	CO1:	Isolation, Production, assay of enzymes for commercialization.
M.Sc. Biotechnology	BTH 404	Bioprocess engineering and Medical Biotechnology	CO2:	To assay enzyme activity in different Biological samples using various Standard methods
M.Sc. Biotechnology	BTH 404	Bioprocess engineering and Medical Biotechnology	CO3:	Study of cancer cell and visit to cancer research institute.
M.Sc. Biotechnology	BTH 404	Bioprocess engineering and Medical Biotechnology	CO4:	Visit to industries/Biotech park-report to be submitted along with the record.

Course outcome (CO) for B.Sc. Biotechnology Subject

	DSC-T1BTC101	Cell Biology and Genetics	CO1:	To learn the Journey of a cell - cell theory, cell division and cell death
BSc Biotechnology I Sem	DSC-T1BTC101	Cell Biology and Genetics	CO2:	To study the description of cell organelles and their functions
BSc Biotechnology I Sem	DSC-T1BTC101	Cell Biology and Genetics	CO3:	To understand the nature and significance of genetic material and concepts of Genetics
BSc Biotechnology I Sem	DSC-T1BTC101	Cell Biology and Genetics	CO4:	To gain knowledge on deviations in concepts of genetics
BSc Biotechnology I Sem	DSC-T1BTC101	Cell Biology and Genetics	CO5:	To learn the chromosomal variations, mapping, evolution, mutations and cytoplasmic
BSc Biotechnology II Sem	DSC-T1BTC101	Microbiological Methods	CO1:	They learn about principle and application of analytical instruments
BSc Biotechnology II Sem	DSC-T1BTC101	Microbiological Methods	CO2:	Principle and evaluation of Sterilization techniques using different instruments
BSc Biotechnology II Sem	DSC-T1BTC101	Microbiological Methods	CO3:	Preparation of culture media, colony characterization of cultured microorganisms
BSc Biotechnology II Sem	DSC-T1BTC101	Microbiological Methods	CO4:	Differentiating the strains of microorganisms using staining techniques. Evaluating the drinking efficiency of water with MPN test.
BSc Biotechnology III Sem	BTC:301 DCS -3T	Biomolecules	CO1:	Acquire knowledge about types of biomolecules, structure, and their functions
BSc Biotechnology III Sem	BTC:301 DCS -3T	Biomolecules	CO2:	Will be able to demonstrate the skills to perform bioanalytical techniques
BSc Biotechnology III Sem	BTC:301 DCS -3T	Biomolecules	CO3:	Apply comprehensive innovations and skills of biomolecules to biotechnology field
BSc Biotechnology IV Sem	BTC:104, DCS -4T	Molecular Biology	CO1:	Study the advancements in molecular biology with latest trends
BSc Biotechnology IV Sem	BTC:104, DCS -4T	Molecular Biology	CO2:	Will acquire the knowledge of structure, functional relationship of proteins and nucleic acids
BSc Biotechnology IV Sem	BTC:104, DCS -4T	Molecular Biology	CO3:	Aware about the basic cellular processes such as transcription, translation, DNA replication and repair mechanisms
BSc Biotechnology V Sem	BTP 501	Environmental Biotechnology and Immuno-technology	CO1:	Sources of Energy and Biofertilizers
BSc Biotechnology V Sem	BTP 502	Environmental Biotechnology and Immuno-technology	CO2:	Biopesticides and Bioremediation
BSc Biotechnology V Sem	BTP 503	Environmental Biotechnology and Immuno-technology	CO3:	Antigen types and Antigen antibody reactions

BSc Biotechnology V Sem	BTP 504	Environmental Biotechnology and Immuno-technology	CO4:	Complement system, Organ transplantation
BSc Biotechnology V Sem	BTP 505	Environmental Biotechnology and Immuno-technology	CO5:	Vaccines and Immunization
BSc Biotechnology V Sem	BTP 502	Plant and Animal Biotechnology	CO1 :	To understand the basics of various invitro methods in plant biotechnology
BSc Biotechnology V Sem	BTP 502	Plant and Animal Biotechnology	CO2:	To learn the various organ culture and its applications
BSc Biotechnology V Sem	BTP 502	Plant and Animal Biotechnology	CO3:	To introduce various culture medias and growth factors in animal cell culture
BSc Biotechnology V Sem	BTP 502	Plant and Animal Biotechnology	CO4:	To understand techniques and cultures in Animal Biotechnology.
BSc Biotechnology V Sem	BTP 502	Plant and Animal Biotechnology	CO5:	To learn various applications of Plant and Animal Biotechnology
BSc Biotechnology VI Sem	BTT 601	Industrial Biotechnology	CO1:	To know the basic concepts of Industrial and fermentation technology
BSc Biotechnology VI Sem	BTT 601	Industrial Biotechnology	CO2:	To understand the process development and maintenances of strains in the fermenter.
BSc Biotechnology VI Sem	BTT 601	Industrial Biotechnology	CO3:	To learn the downstream processing at industrial level.
BSc Biotechnology VI Sem	BTT 601	Industrial Biotechnology	CO4:	To study the product quality and packaging methodology.
BSc Biotechnology VI Sem	BTT 601	Industrial Biotechnology	CO5:	To understand the industrial production of microbial products and its applications
BSc Biotechnology VI Sem	BTT 602	Bio-informatics, Bio entrepreneurship and Research	CO1:	To understand the basics of fundamentals of computers and comprehend the system and application software's.
BSc Biotechnology VI Sem	BTT 602	Bio-informatics, Bio entrepreneurship and Research	CO2:	To learn the bioinformatic techniques involved in *in-silico* computational analysis.
BSc Biotechnology VI Sem	BTT 602	Bio-informatics, Bio entrepreneurship and Research	CO3:	To identify the gene defects and to interpretate gene expression studies.
BSc Biotechnology VI Sem	BTT 602	Bio-informatics, Bio entrepreneurship and Research	CO4:	To study the programming languages for biological applications.
BSc Biotechnology VI Sem	BTT 602	Bio-informatics, Bio entrepreneurship and Research	CO5:	To understand the features, applications and types of Bio entrepreneurship and Research methodologies

Department of Electronics

BSc Electronics I Sem	ELE-CT1:	Electronic Devices and Circuits	CO1	1. Aptitude to apply Logic thinking and Basic Science knowledge for problem solving in various fields of electronics both in industries and research.
BSc Electronics I Sem	ELE-CT1:	Electronic Devices and Circuits	CO2	2. Acquire experimental skills, analysing the results and interpret data.
BSc Electronics I Sem	ELE-CT1:	Electronic Devices and Circuits	CO3	3. 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.
BSc Electronics I Sem	ELE-CT1:	Electronic Devices and Circuits	CO4	4. Capacity to identify and implementation of the formulate to solve the electronic related issues and analyze the problems in various sub disciplines of electronics.
BSc Electronics I Sem	ELE-CT1:	Electronic Devices and Circuits	CO5	Capability to understand the working principles of the electronic devices and their applications
BSc Electronics II Sem	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 devices.
BSc Electronics II Sem	ELE-CT2	Analog and Digital Electronics	CO2	Applying the standard device models to explain/calculate critical internal parameters of semiconductor devices.
BSc Electronics II Sem	ELE-CT2	Analog and Digital Electronics	CO3	Understanding and characterizing the behaviour of known/unknown/novel power electronic devices such as UJT, SCR, Diac, Triac etc.
BSc Electronics II Sem	ELE-CT2	Analog and Digital Electronics	CO4	Acquainting and familiarization of the experimental skills to determine the behaviour of semiconductor devices.
BSc Electronics II Sem	ELE-CT2	Analog and Digital Electronics	CO5	Capable of analyzing the device characteristics and responses.
BSc Electronics II Sem	ELE-CT2	Analog and Digital Electronics	CO6	Understanding the working of basic logic gates, concepts of Boolean algebra and techniques to reduce/simplify Boolean expressions and their applications.
BSc Electronics II Sem	ELE-CT2	Analog and Digital Electronics	CO7	Synthesizing and Analyzing combinatorial and sequential circuits and their applications in electronics
BSc Electronics III Sem	ELE-CT 3	Programming in C and Digital design using Verilog	CO1.	Write and execute and debug C codes for solving problems.
BSc Electronics III Sem	ELE-CT 3	Programming in C and Digital design using Verilog	CO2. .	Apply the acquired knowledge of digital circuits in different levels of modeling using Verilog HDL
BSc Electronics III Sem	ELE-CT 3	Programming in C and Digital design using Verilog	CO3.	Apply the acquired knowledge of digital circuits in different levels of modeling using Verilog HDL.
BSc Electronics III Sem	ELE-CT 3	Programming in C and Digital design using Verilog	CO4.	Design and verify the functionality of digital circuit/system using test benches.
BSc Electronics III Sem	ELE-CT 3	Programming in C and Digital design using Verilog	CO5.	Develop the programs more effectively using directives, Verilog tasks and constructs.
BSc Electronics III Sem	ELE-CT 3	Programming in C and Digital design using Verilog	CO6.	Design and analyse algorithms for solving simple problems
BSc Electronics IV Sem	ELE-CT 4	Electronic Communication - I	CO1.	Know the basic concept of Analog Communication, means and medium of communication.
BSc Electronics IV Sem	ELE-CT 4	Electronic Communication - I	CO2.	Understand the principle of Analog and digital modulation.
BSc Electronics IV Sem	ELE-CT 4	Electronic Communication - I	CO3.	Familiar with AMl and —FM —techniques.
BSc Electronics IV Sem	ELE-CT 4	Electronic Communication - I	CO4.	Understand the basic concept of Pulse Modulation, Carrier Modulation for digital transmission andable to construct simple pulse modulation.
BSc Electronics IV Sem	ELE-CT 4	Electronic Communication - I	CO5.	Understand the basic concept of Satellite Communication
BSc Electronics IV Sem	ELE-CT 4	Electronic Communication - I	CO6.	Understand the basic concept of Optical Fibre Communication
BSc Electronics V Sem	PAPER 5 EL501T	COMMUNICATION 1	CO1-	Learn in details with examples noise and transmission lines
BSc Electronics V Sem	PAPER 5 EL501T	COMMUNICATION 1	CO2-	Write down the characteristics of analog modulation techniques
BSc Electronics V Sem	PAPER 5 EL501T	COMMUNICATION 1	CO3-	Write down in details with examples radio receivers
BSc Electronics V Sem	PAPER 6 EL502T	MICROPROCESSOR AND INSTRUMENTATION	CO1	Specify the characteristics of microprocessor and its classifications
BSc Electronics V Sem	PAPER 6 EL502T	MICROPROCESSOR AND INSTRUMENTATION	CO2	Understand the detailed architecture and pin configuration of 8085
BSc Electronics V Sem	PAPER 6 EL502T	MICROPROCESSOR AND INSTRUMENTATION	CO3	Deliberate the characteristics of instruction set in 8085
BSc Electronics VI Sem	PAPER 7 EL601T	COMMUNICATION -II	CO1	Deliberate the details of Digital communication

Program	Course code	Course name	CO code	CO
BSc Electronics VI Sem	PAPER 7 EL601T	COMMUNICATION -II	CO2	Specify in details with examples RADAR system
BSc Electronics VI Sem	PAPER 7 EL601T	COMMUNICATION -II	CO3	Understand the classification and characteristics of Satellite communication
BSc Electronics VI Sem	PAPER 8 EL602T	MICROCONTROLLERS	CO1	Introduction to Microcontroller, structural study of 8051
BSc Electronics VI Sem	PAPER 8 EL602T	MICROCONTROLLERS	CO2	Addressing mode, Instruction set and Interrupts in 8051
BSc Electronics VI Sem	PAPER 8 EL602T	MICROCONTROLLERS	CO3	8051 programming in C

Program	Course code	Course name	CO code	CO
MBA	1.1	MANAGEMENT AND BEHAVORAL PROCESS	CO1	Present a thorough coverage of management theory, human behaviour, organizational behaviour and practice.
MBA			CO2	To appraise the students on the application oriented case studies on functions of management and behavioural processes
MBA	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
MBA			CO2	The syllabus also contains the practical components of the subject which enable the students gain more practical knowledge under each module.
MBA	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
MBA			CO2	To understand the basic provisions of laws concerning incorporation and regulation of business organizations
MBA			CO3	To provide the students with an understanding of fundamental legal issues pertaining to the business world to enhance their ability to manage businesses effectively with planning
MBA			CO4	To focus on legal and statutory compliances
MBA			CO5	To develop the skills to interpret the laws and apply it to practical problems, affecting the operations of a business enterprise
MBA	1.4	ECONOMICS FOR BUSINESS DECISIONS	CO1	To acquaint the participants with concepts and techniques used in Economics
MBA			CO2	To enable them to apply this knowledge in business decision-making
MBA	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 practise statistical ideas to solve problems
MBA			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
MBA	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.
MBA			CO2	Student should be able to analyse basic marketing environment and marketing mix component. construct consumer profiles using understanding of buyer behaviour. And develop marketing plans and strategies.
MBA	1.7	EMPLOYABILITY SKILL DEVELOPMENT - I	CO1	To impart employability skills with activities.
MBA			CO2	To bridge the gap between the skill requirements of the employer or industry and the competency of the students
MBA	2.1	ENTREPRENEURSHIP AND START-UP MANAGEMENT	CO1	To make the students aware of the importance of entrepreneurship opportunities available in the society for the entrepreneurs.
MBA			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
MBA	2.2	BUSINESS RESEARCH METHODS	CO1	To enable students acquire thought process in research.
MBA			CO2	To imprint on them the paradigm of research in business & to make them use research as base for decisions
MBA	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
MBA			CO2	Students will also get a perspective of the problems associated with HRM and their causes.
MBA	2.4	BUSINESS ANALYTICS	CO1	To introduce the business intelligence process that support the decision making Ln business operations.
MBA			CO2	To expose the students to analytics practices used in various verticals across industries and thereby educating students to develop basic analytical skills.
MBA	2.5	FINANCIAL MANAGEMENT	CO1	To enable a strong conceptual fundamental for corporate finance and make the students comfortable and easy understanding of financial management and an overview of Indian and global scenario
MBA			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.
MBA			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
MBA	2.7	EMPLOYABILITY SKILL DEVELOPMENT - II	CO1	To assess and identify the individual employability skill deficiencies
MBA			CO2	Facilitating student to take remedial measures to improve the status of skill deficiencies and enable students to apply these skills in order to be successful in professional life.
MBA	3.1	STRATEGIC MANAGEMENT AND BUSINESS ETHICS	CO1	To enlighten the students with the Concepts and Practical applications of Strategic Management and Business Ethics
MBA	3.2.1	INVESTMENT ANALYSIS AND PORTFOLIO MANAGEMENT	CO1	To provide knowledge and skill in identifying various investment alternatives and choosing the suitable one.
MBA			CO2	To orient on the procedures and formalities involved in investing.
MBA	3.2.2	CORPORATE TAXATION FOR MANAGERS	CO1	To impart students with knowledge on tax, types of tax and their modalities.
MBA			CO2	To give insight on the taxes influencing a corporate entity – both direct and indirect.
MBA			CO3	To orient the students on the procedures and formalities to be adhered, with regard to tax matters.
MBA	3.2.3	CORPORATE VALUATION AND FINANCIAL MODELLING	CO1	To facilitate understanding of corporate valuation techniques and restructuring activities in M&A
MBA			CO2	To communicate to the students, the role that M&A plays in the contemporary corporate world.
MBA			CO3	To enable the students to use the financial modelling techniques by using advanced tools.
MBA	3.3.1	RURAL AND GREEN MARKETING	CO1	To understand the opportunities and challenges in rural and green marketing
MBA			CO2	To identify and assess rural market potential for products and services
MBA			CO3	To evaluate different marketing strategies used in rural and green marketing

MBA	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.
MBA			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.
MBA	3.3.3	CONSUMER BEHAVIOUR AND NEUROMARKETING	CO1	To understand personal, socio-cultural, and environmental dimensions that influence consumer decisions making.
MBA			CO2	To understand how the human brain processes information and generates responses while incorporating risk, feelings and reasoning and apply this understanding into developing, communicating and delivering effective marketing offerings.
MBA	3.4.1	PERFORMANCE MANAGEMENT AND COMPETENCY MAPPING	CO1	The objective of this course is to equip students with comprehensive knowledge and practical skills to improve their ability for performance management through appraisal and competency mapping in their organizations.
MBA	3.4.2	TALENT MANAGEMENT AND EMPLOYEE ENGAGEMENT	CO1	The Objective of the subject is to enhance the readers understanding of the domain of talent management and employee engagement, and how the former culminates in the latter, specifically as a tool for retention of employees.
MBA	3.4.3	LEARNING AND DEVELOPMENT	CO1	To enable the students to understand various concepts and process of learning and development.
MBA			CO2	To design and implement Training Need Analysis for different levels of employees in organizations
MBA			CO3	To understand different types of learning and development methods based on needs of the organization and to evaluate the effectiveness of the same.
MBA	3.7.1	BUSINESS INTELLIGENCE	CO1	To orient the students on the fundamentals of Business Intelligence
MBA			CO2	To make students understand the Business Intelligence types and environment
MBA			CO3	To provide knowledge on Business Intelligence Architecture, life cycle, issues and challenges
MBA			CO4	To enable students to understand the issues and challenges associated with Business Intelligence.
MBA			CO5	To acquaint students on contemporary developments and emerging trends in Business Intelligence
MBA	3.7.2	PREDICTIVE ANALYTICS USING R	CO1	To enable the students to be able to understand the predictive analytics in present scenario and its applications by the industry.
MBA			CO2	Formulate the regression models for prediction
MBA	4.1	INTERNATIONAL BUSINESS	CO1	To make students to learn how business organizations operate in an international environment.
MBA			CO2	To understand the impact of international influences on business.
MBA			CO3	To help students to plan a career in international business.
MBA	4.2.2	INTERNATIONAL FINANCIAL MANAGEMENT	CO1	To understand exchange rates, and their relationship with Economic variables.
MBA			CO2	To study the impact of exchange risk Hedging tools and techniques.
MBA	4.2.3	DERIVATIVES AND RISK MANAGEMENT	CO1	To provide the concepts and foundations of managing financial risk in business enterprises
MBA			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.
MBA	4.3.1	SALES AND DISTRIBUTION MANAGEMENT AND RETAILING	CO1	To understand the services domain from a marketing perspective.
MBA			CO2	To understand retailing as a business and have a comprehensive view of the marketing and store management functions in a retailing organization.
MBA	4.3.2	SERVICES MARKETING AND CUSTOMER RELATIONSHIP MANAGEMENT	CO1	To appreciate the challenges involved in managing the services and analyse the strategies to deal with these challenges.
MBA			CO2	To give insights about the foundations of services marketing, customer expectations of services and gap existing in the service delivery processes and service Quality.
MBA			CO3	To understand the need and importance of maintaining a good customer relationship.
MBA	4.3.3	INTEGRATED MARKETING COMMUNICATIONS AND DIGITAL MARKETING	CO1	To enumerate the role of advertising agency in bringing about coherence between the various communication mix and highlighting the importance of integrating the various components.
MBA			CO2	To understand the scope of Indian Media, and guide the students to explore career opportunities in media selling.
MBA			CO3	To guide the students to see how companies are leveraging the internet for marketing products and service and build positive image.
MBA	4.4.1	GLOBAL HRM	CO1	To be able to assess the extent to which multinational companies can have Global HRM strategies, policies and practices.
MBA			CO2	To apply concepts, approaches, and models to enumerate global scenario
MBA	4.4.2	STRATEGIC HRM	CO1	To help students understand the factors of change in the political, social, environmental and the economic scenarios that has transformed the role of HR functions from being a support function to strategic function.
MBA	4.4.3	STRIAL RELATIONS AND HR A	CO1	To build awareness of certain important and critical issues in Industrial Relations
MBA			CO2	To develop understanding of the Role and Process of HR Audit in Organisation at different levels.
MBA			CO3	To Appreciate HR Audit in the context of changing forms of organisation.