

VLB JANAKIAMMAL COLLEGE OF ARTS AND SCIENCE

KOVAIPUDUR, COIMBATORE - 24

Course Outcomes - All Courses

BBA

To Develop the knowledge, skill and attitude creatively and systematically to solve the management problems and work effectively in modern business organizations

To Demonstrate the critical thinking mindset and the ability to identify and formulate research and to provide valid conclusions and contextual approaches across a variety of subject matter.

Function effectively as an individual and as a member or a leader in teams and in multidisciplinary business demonstrating lifeskills, coping skills and human values.

Develop fundamental in-depth knowledge and understanding of principles, concepts, values, substantive rules and development core areas of business such as finance, accounting, marketing, HR, operations along with

Graduate will recognize the need for adopting to change and have the aptitude and ability to engage in independent and life-long learning in the broadest context of socioeconomic, technological and global

Graduates will be capable of making a positive contribution to business, trade and industry in the national and global context.

Graduates will be able to apply frameworks and tools to arrive at informed decisions in professional practice, striking a balance between business and social dimensions.

Graduates with flair of self-employment will be able to initiate and build upon entrepreneurial ventures and demonstrate intrapreneurship for their employer organizations.

PROGRAMME OUTCOME (PO):

PROGRAMME SPECIFIC
OUTCOME (PSO)

Course

S.No	Code	Course Name	Course Outcome
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Understanding the concepts of Management and Administration

To understand various functions of Management

Acquired knowledge about the MBO concepts

PRINCIPLES
OF
MANAGEMENT

1 21BBA101 NT To Gain knowledge about Management process
To Know about the current developments in Management practices.

Acquire conceptual knowledge in basics of accounting

Know about subsidiary books

Helps to Prepare final accounts

FINANCIAL
ACCOUNTING

2 21BBA102 G to know the role of accounting information and its limitations
Identify events that need to be recorded in the accounting records

To know about organisation and its functions

Helps to know Perception and motivation concepts

Know about different leadership styles

ORGANIZATIONAL
BEHAVIOUR

3 21BBA201 BEHAVIOUR Getting knowledge about group and managing conflicts
Get ideas about organisation climate and culture

Helps to understand business firm

To Understand demand elasticity Concept

To Know about production functions

To Know about cost and revenue theory

	BUSINESS	
4	21BBA202	ECONOMICS To Understand different Pricing and structure
		Understanding Marketing Concepts
		To Know about buyer behaviour
		Get to know Products and its Market
	MARKETING	Understand Pricing Policies
	MANAGEMENT	
5	21BBA301	NT To Know about different advertising medias
		To Acquire knowledge about production management
		To Understand Production layout and planning
	PRODUCTIO	Know about Purchasing Procedures
	N AND	
	OPERATION	Understanding inventory functions
	MANAGEMENT	
6	21BBA302	NT Know about ISO and AGMARK
		Understanding about information system
		Know the MIS concepts
		Know about transaction of documents
	MANAGEMENT	
	NT	Understanding the Data base design and techniques
	INFORMATIO	
7	21BBA303	N SYSTEM Know about different Networking systems

To Know the basic concept of cost and how costs are presented in financial statements.

To understand how cost accounting is used for decision making and performance evaluation.
To understand materials, labor and overhead costs are added to a product at each stage of the production cycle

COST
ACCOUNTING

To know variable cost variances and fixed cost variances

8 21BBA304 G

Understand the marginal costing techniques

Should have acquired knowledge about Tax

Know about heads of income

Understanding about computation of income

Getting some knowledge about Capital gains

BUSINESS

9 21BBAA03 TAXATION

Know about VAT, TNVAT

To understand about processor to create ,edit and format documents.

On successful completion of this introduction of computers students will have the knowledge about computer system

To develop creativity among students in designing a presentation of powerpoint which helps them to create basic presentation.

PC
SOFTWARE

10 21BBASB1 LAB

To develop technical and communication skills of students by using internet and it is common userfriendly.

To develop the skill based office related documents work.

Understand the basic concepts of Customer relationship management

		To know about Customer and the Satisfaction of needs.
11	21BBASB2 NT	<p>CUSTOMER RELATIONSHIP MANAGEMENT To know about the need of CRM and Business.</p> <p>IP To know about the implementation of CRM strategies</p> <p>MANAGEMENT To formulate and assess strategic and implementation of CRM decisions.</p>
		<p>Understand major causes of work-related accidents in offices.</p> <p>To know about the threats to a computer network, methods of avoiding attacks, and options in dealing with virus attacks.</p>
12	21BBAOE1 NS	<p>MULTIMEDIA AND ITS APPLICATIONS To know about potential abuse and unethical uses of computers and networks.</p> <p>TO KNOW THE PROCESS OF PLANNING, ORGANIZING, AND STORYBOARDING A MULTIMEDIA PROJECT.</p> <p>UNDERSTAND MULTIMEDIA OBJECTS AND RELATED RESOURCES.</p>
		<p>UNDERSTAND THE FUNCTIONS OF HRM</p> <p>TO KNOW ABOUT JOB ANALYSIS AND JOB DESCRIPTIONS</p> <p>ABILITY TO DRAFT HUMAN RESOURCE PLANNING</p>
13	21BBA401 NT	<p>HUMAN RESOURCE MANAGEMENT Ability to understand the theories related to Human Resource Management.</p> <p>ABILITY TO HANDLE EMPLOYEE ISSUES AND EVALUATE THE NEW TRENDS IN HRM</p>
		<p>TO KNOW THE CONCEPTS AND NEED OF RESEARCH</p> <p>TO UNDERSTAND THE FLOW OF RESEARCH PROCESS</p>

	RESEARCH METHODS FOR MANAGEMENT	To understand the types of Research and Design. Develop skills in qualitative and quantitative data analysis and presentation
14 21BBA402	NT	To Understand the Layout for writing research report. To understand management accounting and its objectives in facilitating decision making. To learn various accounting ratios, reports and relevant data To Know the cost-volume-profit techniques to determine optimal managerial decisions.
	MANAGEMENT NT ACCOUNTING	To understand master budget and demonstrate the relationship between the components. To know Cash Flow and Funds Flow statements this helps in planning for intermediate and long-term finances.
15 21BBA403	G	To understand how knowledge of consumer behaviour can be applied to marketing. To relate internal dynamics such as personality, perception, learning motivation and attitude To know about consumer protection act 1986 To Understand about the consumer needs
	CONSUMER BEHAVIOUR	To understand Consumer perception and Learning To understand the concept of Contract and Agreement. To understand the concept of Sale of Goods Act. To understand the parties involved in Contract.
16 21BBA404		

	LEGAL ASPECTS OF BUSINESS	To know the basic concepts and structure of the Legal system.
17	21BBAA04	To know about the Consumer Rights and protection Act
		To know the strategies of Effective Business writing.
		To stimulate their Critical thinking by designing and developing clean and lucid writing skills.
		To demonstrate his verbal and non-verbal communication ability through presentations.
	BUSINESS COMMUNICATION	To draft effective business correspondence with brevity and clarity
18	21BBASB3	To developing and delivering effective presentations
		Understand about the basic of office
		To improve knowledge on office management and its functions.
		To Know about office correspondence and record management
	MODERN OFFICE MANAGEMENT	To Know about office systems and procedures
19	21BBASB4	Understand to know about office personnel relations
		Understand about finance functions
		Know about Capital, Equity, Debt and Preference Shares
		Understanding Capital budgeting
	FINANCIAL	Know about the capital structure

	MANAGEMENT	
20	21BBA501	NT
		Understand about Working capital Management
		To Understand about new product development
		To Know the concepts of brands
		To Understand the brand positioning
		To Know measurements and management of brand equity
21	21BBA502	BRAND AND BUSINESS
		To Know about packing and labeling
		To understand the objective of entrepreneurship and project Management
		Know about the project management process.
		To understand the source of entrepreneurship.
		Know about the preparing of project report
22	21BBA503	ENTREPRENEURSHIP AND PROJECT MANAGEMENT
		NT
		Know about different financial assistance provide by Government.
		Understand about business ethics
		To Know about ethical values
		To Understand About culture and ethical leadership
		To Know about corporate governance
23	21BBA504	BUSINESS ETHICS AND CORPORATE GOVERNANCE
		E
		To Understand to Corporate social responsibility

		To Understand about advertising and its functions
		To Know about creativity of advertisement
		To Know different advertising media
	ADVERTISING AND SALES	To understand about promotion mix
24	21BBAE01	PROMOTION To Understand the sales promotion
		To know the banking basic process ideas
		Understand the process of banking transactions
		To know about the banking methods and ideas
	BANKING LAW AND PRACTICES	to Know the form filling process
25	21BBAE02	To know about Practices of law and methodology
		To Know the labour problems in the organisation:
		To know human values and personality.
	LABOUR WELFARE AND INDUSTRIAL RELATIONS	To understand how Labour Welfare helps to foster a sense of responsibility:
		To know the policies to retain the employees
26	21BBAE03	To understand the bargaining power of the employees
		To Know about the original research field

		To understand the report writing skills through data collection, data analysis, data extraction, and presentation
		To know comprehensively to answer questions from all the courses
		To understand Oral Presentation skills by answering questions in precise and concise manner.
27	21BBAPR1 PROJECT VIVA VOCE	To know the confidence level and inter-personal skills.
		To Understand international trade theories
		To Know about strategies of international business
	INTERNATIONAL BUSINESS MANAGEMEN	To Know about WTO
		To Know about concepts of strategy
28	21BBA601 NT	To Understand the environmental analysis
		To know the importance and concepts of Industrial Relations.
		To know the impact and causes of Industrial Conflicts.
		To know the concepts and education of Labour Welfare Measures
		know the categories of Labour Welfare Act.
29	21BBA602 INDUSTRIAL LAW	Acquire a complete knowledge about Employee schemes Act.
		To Know about insurance and its principles
		To Understand about life insurance and general Insurance

	INSURANCE	To understand about marine insurance	
	FOR	To Know about Miscellaneous insurance and motor insurance	
	BUSINESS		
30	21BBA603	PROCESS	To understand various types of insured policies and their benefits.
			Know about the concepts in E-Commerce
			To Gain knowledge about business entity in E-Commerce
			Know about Policies and Seller Protection in E Commerce
			To know the evolution of E commerce and theories
31	21BBA604	E	To know the interrelation between internet and Intranet.
			Know about event planning and team management
			To Understand the Marketing of events
			Know about the future of event marketing
			To understand the process of event marketing.
32	21BBAE04	MARKETING	Know about 5C s in Event marketing
			Understand the role and function of the financial system in reference to the macro economy.
			Demonstrate an awareness of the current structure and regulation of the Indian financial services sector.
			Evaluate and create strategies to promote financial products and services.

		To know the dimensions of performance and risk relevant to financial services companies
33	21BBAE05	FINANCIAL SERVICES
		To Know the contemporary managerial risk management processes
		To know the importance of Human resource
		To gain the knowledge on Human Resource thoery
		To know the importance of Team Management
		HUMAN RESOURCE DEVELOPME
		To understand the factors influncing the Human Resource Development
34	21BBAE06	NT
		Understand the history, origins of Human resource development.
		Know about the importance of Quality Improvement -
		To know the concepts in Logistices Management
		Understand the various concepts in SCM
		SUPPLY CHAIN AND LOGISTICS
		Understand the fundamentals of outsourcing and proceurement management.
35	21BBAE07	LOGISTICS
		To Develop optimisation in logistics process
		To know the different components of a financial system and their role.
		To know the recent developments in the Indian financial system
		To understand the methods of issuing shares and role of intermediaries in the primary market
		STOCK EXCHANGE
		To know the trade mechanism in the stock market

AND
 36 21BBAE08 PRACTICE To Know the various speculators and the activities

Understand the Training and Learning concepts.

Understand the different evaluation in training methods.

Understand to know about skill setting and requirement.

TRAINING

AND

DEVELOPME

Understand the different environment at organisation.

37 21BBAE09 NT Understand to know about the recent trends in skill development.

BBA (CA)

Become ethically and socially responsible graduates with computer application knowledge.

Has an ability to apply knowledge of computing and business application appropriate to the discipline.

Apply techniques and professional skills to excel in business.

Evaluate business problem in complex context using social, ethical, economical regulatory and global prospective.

PROGRAMME OUTCOME (PO): Provide ability to solve problem, decision making in an organization.

To impart conceptual grounding in computer usage as well as its practical business application will be provided.

To provide in basic and essential knowledge regarding various activities undertaken and necessary to run socially responsible business organizations.

PROGRAMME SPECIFIC

OUTCOME (PSO):

To furnish global view of the several industries and other organizations and their functions which support the business systems.

Course

S.No	Code	Course Name	Course Outcome
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		Understanding the concepts of management and administration
		To understand various functions of management
	PRINCIPLES OF MANAGEMENT	Acquired knowledge about the MBO concepts
		To Gain knowledge about Management process
1	21BAC101 NT	To Know about the current developments in management practices.
		To understand about processor to create ,edit and format documents.
	INTRODUCTI ON TO INFORMATIO N TECHNOLOG	To know about computer system
		To perform calculations and arithmetic operations using MS excel
		To develop creativity among students in designing a presentation of powerpoint which helps them to create basic presentation.
2	21BAC102 Y	To develop technical and communication skills of students by using internet and it is common userfriendly.
		Acquire conceptual knowledge in basics of accounting
		Know about subsidiary books
		Helps to Prepare final accounts
	FINANCIAL ACCOUNTIN	Describes the role of accounting information and its limitations
3	21BAC201 G	Identify events that need to be recorded in the accounting records
		Acquiring knowledge about MS Word to create official documents

		Improve the efficiency of business.
		Understanding process of office automation
	PC SOFTWARE	Impact of business and preparing internet process
4	21BACP01 LAB	Understanding the Basic knowledge of creating, designing documents
		Understanding Marketing Concepts
		To Know about buyer behaviour
		Get to know Products and its Market
	MARKETING MANAGEMEN	Understand Pricing Policies
5	21BAC301 NT	To Know about different advertising medias
		To Acquire knowledge about production management
		To Understand Production layout and planning
	PRODUCTION AND OPERATION MANAGEMEN	Know about Purchasing Procedures
		Understanding inventory functions
6	21BAC302 NT	Know about ISO and AGMARK
		Students should have understood the concept of system analysis and design
		Knowledge of System development life cycle.

Understand of how to analyse the system design and techniques.

SYSTEM
ANALYSIS

Knowing the knowledge of Input and Output design concept

7 21BAC303 AND DESIGN students know about the system design and testing

Understand the concept accounting methods

To learn about how to create a company.

To understand ledger and voucher creation.

ACCOUNTIN
G PACKAGE

Understand the basic accounting concepts in computerised manner.

8 21BACP02 TALLY To gather practical knowledge in computerised accounting.

Should acquired knowledge about the concepts of Tax

Know about heads of income

To Understand the computation of income

To creat an awareness about agriculture income, residential status and incidence/charge of tax.

BUSINESS

9 21BACA03 TAXATION Know about GST

Acquired knowledge about retailing and its functions

Know about visual merchandising

Understand about retail merchandising

	RETAIL MANAGEMENT	Know about Price determination and policies
10	21BACSB1 NT	Understand the Retail MIS
		Understand the basic concepts of Customer relationship management
		To know about Customer and the Satisfaction of needs.
	CUSTOMER RELATIONSHIP MANAGEMENT	To know about the need of CRM and Business.
11	21BACSB2 NT	To know about the implementation of CRM strategies
		To formulate and assess strategic and implementation of CRM decisions.
		Understand the key features of Multimedia techniques .
		Understand the audio and video signals of multimedia
		Understand the impact of the animation development for future applications.
	MULTIMEDIA AND ITS APPLICATIONS	Learn the animation graphics and working with drawing tools in flash.
12	21BACOE 1	Learn the animation development for future development of application.
		Understand the functions of HRM
		To Know about Job analysis and job descriptions
		Ability to Draft Human Resource Planning
	HUMAN RESOURCE	Ability to understand the theories related to Human Resource Management.

	MANAGEMENT	
13	21BAC401	NT Ability to handle employee issues and evaluate the new trends in HRM
		To know the concepts and need of Research
		To understand the flow of Research Process
	RESEARCH METHODS FOR MANAGEMENT	To understand the types of Research and Design.
		Develop skills in qualitative and quantitative data analysis and presentation
14	21BAC402	NT To Understand the Layout for writing research report.
		Understand about finance functions
		Know about Capital, Equity, Debt and Preference Shares
		Understanding Capital budgeting
		Know about the capital structure
15	21BAC403	RDBMS AND ORACLE Understand the Working capital Management Concepts.
		To Declare and enforce integrity constraints on a database
		To provide a strong formal foundation in database concepts.
		To provide a sound introduction to the discipline of database management.
	RDBMS AND ORACLE PRACTICAL	Understand the participant with the nuances of database environments
16	21BACP03	PRACTICAL to give an introduction to systematic database design approaches.

Helps to understand business firm

To Understand demand elasticity Concept

To Know about production functions

To Know about cost and revenue theory

BUSINESS

17 21BACA04 ECONOMICS To Understand different Pricing and structure

To know the strategies of Effective Business writing.

To stimulate their Critical thinking by designing and developing clean and lucid writing skills.

To demonstrate his verbal and non-verbal communication ability through presentations.

BUSINESS
COMMUNICA

18 21BACSB3 TION To draft effective business correspondence with brevity and clarity

To developing and delivering effective presentations

Understand about the basic of office

To improve knowledge on office management and its functions.

To Know about office correspondence and record management

MODERN
OFFICE
MANAGEME

19 21BACSB4 NT To Know about office systems and procedures

Understand to know about office personnel relations

Understand about finance functions

		Know about Capital, Equity, Debt and Preference Shares
		Understanding Capital budgeting
	FINANCIAL MANAGEMENT	Know about the capital structure
20	21BAC501 NT	Understand about Working capital Management
		To Understand the needs of the consumer.
		To understand Consumer perception and Learning
		To differentiate the types of consumers
		To acquire to know about family and its roles in decision making
	CONSUMER BEHAVIOUR	Aware about consumer protection act 1986
21	21BAC502	To implicit visual programming environment.
		Understand the knowledge of basic toolbars and database tools.
		Introduce and apply the concepts program development using a contemporary programming language
	VISUAL PROGRAMMI NG(THEORY)	Develop creativity among students in designing forms by tool box.
22	21BAC503	Create procedures that are accessible from multiple form modules.
		Identify the Visual code window
		know about the visual controls

		Develop the GUI interfaces
	VISUAL	
	PROGRAMMI	Customize GUI applications
	NG(PRACTIC	
23	21BACP04	AL) Develop program code window
		To Understand about advertising and its functions
		To Know about creativity of advertisement
		To Know different advertising media
	ADVERTISIN	To understand about promotion mix
	G AND	
	SALES	
24	21BACE01	PROMOTION To Understand the sales promotion
		To know the banking basic process ideas
		Understand the process of banking transactions
		To know about the banking methods and ideas
	BANKING	to Know the form filling process
	LAW AND	
25	21BACE02	PRACTICES To know about Practices of law and methodology
		To know human values and personality.
		to understand how Labour Welfare helps to foster a sense of responsibility:
	LABOUR	To know the policies to retain the employees

	WELFARE AND INDUSTRIAL RELATIONS	To understand the bargaining power of the employees
26	21BACE03	To Know about the original research field To understand the report writing skills through data collection, data analysis, data extraction, and presentation
		To know comprehensively to answer questions from all the courses
		To understand Oral Presentation skills by answering questions in precise and concise manner.
		To know the confidence level and inter-personal skills.
27	21BACPR1	GAIN CONFIDENCE AND INTER-PERSONAL SKILLS.
		Explain the basic concept of cost and how costs are presented in financial statements.
		Describe how cost accounting is used for decision making and performance evaluation. Demonstrate how materials, labor and overhead costs are added to a product at each stage of the production cycle
	COST AND MANAGEMENT ACCOUNTING	To understand management accounting and its objectives in facilitating decision making.
28	21BAC601	To learn various accounting ratios, reports and relevant data
		To understand and apply the concept of industrial relations and the system in which it operates.
		Resolve the labour welfare problems and Students will learn the laws relating to Industrial Relations,
		To acquire skills in handling employer-employee relations
		Understand to know about risk and its classifications

	INDUSTRIAL	
29	21BAC602 LAW	To familiarize with the role of management and unions in the promotions of industrial relations. Update the knowledge of internet and webapplication concepts. Understand the importance of the web and creation of web pages.
	INTERNET AND WEB DESIGN	Implicit the knowledge of text wrapping and cell spacing and cell padding.
30	21BAC603 (THEORY)	Develop technical and communication skills of students by using internet and it is common userfriendly. Enable the internet browser Understand the web design window Understand the internet management process
	INTERNET AND WEB DESIGN	know about modified tools and window
31	21BACP05 (PRACTICAL)	know about the web browser and internet mails. To Know about event planning and team management To Understand the Marketing of events Know about the future of event marketing To understand the process of event marketing.
	EVENT	
32	21BACE04 MARKETING	Know about 5C s in Event marketing Understand the role and function of the financial system in reference to the macro economy.

		Demonstrate an awareness of the current structure and regulation of the Indian financial services sector.
		Evaluate and create strategies to promote financial products and services.
		To know the dimensions of performance and risk relevant to financial services companies
33	21BACE05	FINANCIAL SERVICES
		To Know the contemporary managerial risk management processes
		To know the importance of Human resource
		To gain the knowledge on Human Resource thoery
		To know the importance of Team Management
		To understand the factors influncing the Human Resource Development
34	21BACE06	HUMAN RESOURCE DEVELOPME NT
		Understand the history, origins of Human resource development.
		Know about the importance of Quality Improvement -
		To know the concepts in Logistices Management
		Understand the various concepts in SCM
		Understand the fundamentals of outsourcing and proceurment management.
35	21BACE07	SUPPLY CHAIN AND LOGISTICS
		To Develop optimisation in logistics process
		To know the different components of a financial system and their role.
		To know the recent developments in the Indian financial system

STOCK
EXCHANGE
AND
36 21BACE08 PRACTICE

To understand the methods of issuing shares and role of intermediaries in the primary market

To know the trade mechanism in the stock market

To Know the various speculators and the activities

Understand the Training and Learning concepts.

Understand the different evaluation in training methods.

Understand to know about skill setting and requirement.

TRAINING
AND
DEVELOPME

Understand the different enviroment at organisation.

37 21BACE09 NT

Understand to know about the recent trends in skill development.

BACHELOR OF COMMERCE (B.Com)

To promote and showcase general communication and creativity skills with the learning potential of students.

Students shall be able to obtain LSRW skills and help to explore knowledge in various genres.

To realize their responsibility towards the society centre through ethical, social and human values.

Enable the students to know the facets of environment and society which assist them to hold the values of life.

To acquire complete knowledge of Finance, Accounting, Information Taxation, Business Law and other areas of Commerce.

Equip with Professionals, Inter Personal and Entrepreneurial Skill

Gear up with updated knowledge in implementing Business practice.

To offer a number of Value-based and job oriented courses.

Evaluate Environmental factors that influence Business Operations.

PROGRAMME OUTCOME (PO): Prepare for Post Graduates studies and to achieve success in their Professional Careers.
Students shall inculcate problem solving skills related to Accounting, Costing and Analyzed Financial Statement of Business establishments.
Reveal the knowledge of various forms of Organisations and the key areas of Marketing and to apply Law pertaining to Business.

Demonstrate Knowledge of key concepts in Entrepreneurship, Direct and Indirect Taxes

Acquire practical skills to work as tax consultant, audit assistant and in other financial supporting services.

PROGRAMME SPECIFIC

OUTCOME (PSO):

Course

Equip with the knowledge to undertake research in the field of Commerce and Finance.

S.No Code Course Name

Course Outcome

Understand the various Concepts and Conventions of Accounting and interpret the financial result of Gross Profit, Net Profit and the actual financial position (Assets and Liabilities of the Company).
Knowledge on the various methods of depreciation and its causes, Straight line method, Diminishing Balance method, Annuity method, Sinking fund method calculation
Knowledge on Bill of Exchange and Average due date from the collection of cash from Debtors and Payment to Creditors.
Interpret Bank Pass Book and Cash Book Maintenance and interpret the financial position of non-profit organization.

Principles of

1 21BCM101 Accountancy

Understand the concepts of Single-entry system and its methods.

Understand the basic concepts of Commerce

Learn the various forms of Business Organisation

		Describe trade association and Chamber of Commerce and its functions
		Understand the basics of International Trade and its importance
2	Business 21BCM102 Organisation	Gain knowledge on International Trade Agreements and Monetary System
		Define and pinpoint the concepts of Economics
		Understand the supply concept and Law of diminishing marginal utility, Equi-marginal utility and production, Law of variable Proportion, Return to scale
		Distinguish the types of competition in Market Structures such as, Perfect, Monopoly, Monopolistic and Oligopoly competition.
		Describe the important commencement of Economic Growth and Development, Characteristics of underdeveloped countries and Role of Agriculture in Indian Economic Development.
21BCMA0	Business	Educate the growth of population and Population Policy, Higher Education and its necessity, Health, Infrastructure, Technology and its role in Economic Development.
3	1 Economics	To understand the Accounting treatment for Hire Purchase and Installment system and to know the accounting procedure for Branch and Departmental Accounting.
		To understand the Accounting treatment of consignment in the books of Consignor and Consignee and to identify the value of unsold stock, normal loss and abnormal loss.
		Apply the accounting procedure at the time of admission and retirement/death of the partner and the related accounting treatment
		Apply Garner Vs Murray rule and solve problems relating to insolvency of partners.
4	Financial 21BCM201 Accounting	Demonstrate the preparation of statement of affairs in case of insolvency and to frame a deficiency account.
		Understand the conceptual framework of Banking
		Learn the various types of accounts and customers.
		Explain the basic concepts of Cheque, Endorsement and Electronic payment methods.

5	Banking and 21BCM202 Insurance	<p>Know the principles of Insurance and its classifications and understand the IRDA Act.</p> <p>Understand the concepts if GIC, Reinsurance and Double Insurance.</p>
		<p>Understand various management concepts and the functions of management.</p> <p>Identify the various types of planning policies and types of decisions</p> <p>Apply the knowledge of centralization and decentralization and Declaration of authority.</p>
6	21BCMA0 Principles of 2 Management	<p>Apply the concept of HRM planning and motivation, attitudes and behaviors impact.</p> <p>Demonstrate the ability to use theories in the practice of leadership.</p>
		<p>Acquire the conceptual knowledge of the fundamentals of corporate accounting and to understand th features of Shares</p> <p>Develop an understanding about redemption of Shares and Debenture and its types</p> <p>Understand the concepts and standards underlying the accounting procedures for issue of Debentures</p>
7	Corporate 19BCM301 Accounting	<p>To provide knowledge about accounting procedures of Liquidation and Goodwill</p> <p>To give an exposure to the company final accounts</p>
		<p>Discuss modern computing infrastructures from the perspective of the internet and organizations</p>
		<p>Have the knowledge of different types of networks</p> <p>Discuss and explain theoretical and practical issues of conducting business over the internet and the Web c specific tools, techniques and methods in e-business</p>
		<p>Understand the concepts of EDI and its model</p>

8 19BCM302 E-Commerce	To expose the knowledge about the technologies used in E payment system
	To state the law relating to Indian Contract Act and define the concept of contract To understand the different elements of contract, performance of contract and different modes of discharge of contract
	Explain the principles of law that apply to performance of contract
	To explain the concept of special contracts
Commercial	
9 19BCM303 Law	
	Develop the students to learn to create company, enter accounting voucher entries.
	Practically know about preparation of financial statement by using Tally ERP Able to reconcile bank statement, accrual adjustments, and also print financial statements, etc. in Tally ERP.9 software
Computerized Accounting	
10 19BCM304 With Tally	Understand the concepts of GST and making entries
	Knowledge about Factories act and its Provisions.
	Understand about Industrial Disputes Act and it's relating Issues
	Analyze Provisions relating to Trade Unions
	Insight about Bonus Act and Employee Insurance Act and its Purpose.
19BCMSB	
11 1 Industrial Law	Enlightenment of Minimum wages act and Provisions in Workmen's Compensation.

		Describe laws governing cyberspace and analyze the role of Internet Governance in framing policies for Internet security.
		Discuss about Security Aspects and Intellectual Aspects
		Elucidate Evidence aspects and Criminal Aspects
		Knowledge about Global Trends in EDI in India Understand about Information Technology Act
19BCMSB 12 2	Cyber Law	
		Understand the corporate practice in Amalgamation and Absorptions. Develop the skills in preparation of consolidated Balance Sheet of Holding Company and Subsidiary company.
		Accounting Provisions relating to Electricity Company.
	Higher Corporate	Acquaint with the legal formats and special items and adjustments pertaining to Banking companies
13	19BCM401 Accounting	To Know the Legal Procedures of Insurance company Accounts.
		Understand the formation and kinds of companies.
		Knowledge about Appointing Company Secretary and his Role and Functions
		Acquire knowledge on basic documents in a company and various methods of raising of capital.
	Company Law And Secretarial	Understand about Company Meetings and its Procedures
14	19BCM402 Practice	Describe Provisions relating to Winding up of Companies.
		To provide an overview of Prerequisites to Business Communication Modern methods

To develop Knowledge about Business Letters and Bank Correspondence

To use basic mechanics of Oral and Written Communication

To Describe Reports and Non - Verbal Communication.

Corporate

15 19BCM403 Communication To Understand Employment Communication and Modern Form of Communication

Define the core concepts of marketing and discuss the role of marketing in business and society.

Identify the marketing mix elements and describe the components of market mix.

Explain the modern marketing techniques and discuss how it is used to pursue new marketing opportunities

Describe about Market segments and Buyer's Behavior

Principles Of

16 19BCM404 Marketing

Study recent trends in Marketing

Knowledge about Service Marketing Concepts

Understand about Market Segmentation and Approaches.

Identify the marketing mix elements and describe the components of market mix.

Study about Applications of Service Marketing.

Know about CRM in Service Marketing

19BCMSB Service

17 3

Marketing

Understand the basic principles underlying the Indirect Taxation Statutes.

Identify and analyze the provisional Aspects of GST.

		Study about GST Types and Exemptions.
19BCMSB 18 4	Indirect Taxation	Knowledge about Registration Procedures and Penalties. Describe Mechanism of GST Bill.
		Understand the fundamental concepts of the Costing
		Develop the knowledge about material control
		Acquire the skill regarding various methods of wage calculation.
19 19BCM501	Cost Accounting	Learn the accounting method in maintenance of process costing Gain the knowledge about managerial applications of marginal costing
		Understand various management concepts and the functions of management.
		Identify the various types of planning policies and types of decisions.
		Gain knowledge about centralization and decentralization and declaration of authority.
20 19BCM502	Management Principles And Practices	Develop skills in HRM planning and motivation and attitude. Exhibit the ability to use theories in the practice of leadership
		Explain the basic concepts of Income Tax
		Familiarize different heads of income and also determine the income from salary Compute income from house property and also explain the computation of income from profession c business

21 19BCM503	Income Tax Law And Practice	<p>Explain the various types of capital assets, compute capital gains and Income from other sources</p> <p>Equip with the assessment of individuals and explain the concept of e-filing.</p> <p>Understand the basic auditing principles, concepts, planning an audit and due diligence</p> <p>Acquiring complete knowledge about the classification of Audit</p> <p>Gain expert knowledge on the qualities and their duties and responsibilities of an auditor.</p>
22 19BCM504	Principles Of Auditing	<p>Know about the audit planning and process of Vouching</p> <p>Illustrate the method for Verification and Valuation of Assets and Liabilities</p> <p>Develop an awareness about entrepreneur, skill sets required by an entrepreneur and entrepreneurship.</p> <p>Apply the knowledge on project identification and Evaluation.</p> <p>Gather knowledge about various institutions facilitating entrepreneurs</p>
23 19BCM505	Entrepreneurial Development	<p>Evaluate various incentives and subsidies available for entrepreneurs</p> <p>Analyse the causes for industrial sickness and suggest remedies.</p> <p>Understand the concept of HRM and its relevance in an organisations</p> <p>Summarize the various functioning of HR Department</p> <p>To develop necessary skill set for application of various HR issues</p>
	Human	<p>Demonstrate appropriate HR Competencies at the workplace.</p>

	Resource	
24	19BCME01	Management
		Ability to handle employee issues and evaluate the new trends in HRM
		Understand the value of relationship management strategy.
		Enable to identify key milestones in the CRM process.
		Analyze different concepts of Integration Business Management in CRM.
	Customer	
	Relationship	
25	19BCME02	Management
		Familiarize the E-CRM strategies followed in various CRM system and database marketing. Gather knowledge in CRM programmes and its applicability in different busines
		Understand the concept of organizational behavior and management functions in organization. Gain knowledge about personality and its theories, practically applicable for individual behavior i organization.
		Analyze organization structure and its approaches in managing organizational changes.
		Analyze organization culture and corporate culture.
	Organisational	
26	19BCME03	Behaviour
		Gather knowledge in managing the stress and conflict.
		Understand the basics of the course.
		Develop the skill to analyze various financial statements.
		Acquire the knowledge about various financial ratios and its application
	Management	
	Accounting	
27	19BCM601	
		Learn the practical aspects of working capital and its application.
		Gain the knowledge about Budgetary control.

		Acquire the conceptual knowledge of the business finance and to understand its functions
		Understand the concepts of financial planning.
		Gather knowledge regarding the bases of capitalization.
		Acquire the knowledge about theories of capitalization.
		To identify the various sources of finance.
		Enable the students to obtain a basic understanding the types of research, process and technique involved i research problem.
		Identify various sampling methods and the research methodology.
		Understand and apply the statistical application in research
		Develop skill in analysis of Sales , market segmentation and its positioning
		Gather knowledge on industrial marketing research and preparation of research report.
		Interpret Trends in Retailing services and production
		Summarize the various retail market segmentation
		Understand the trade area analysis and evaluation, selection, store design and layout
		Gain knowledge on retail pricing strategies
		Gather knowledge on Globalization of retail formats, Opportunities & challenges related to it.
		Acquire complete concepts and types of business environmernt .
	Business	
28	19BCM602	Finance
	Marketing	
29	19BCM603	Research
	Retail	
30	19BCME04	Marketing

		Understands the factors of economic planning and policies and trends of privatisation and globalisation
		Gather knowledge about socio cultural environment and ethical aspects of business.
		Provide enhanced information about political environment and government rules in state intervention.
Business		
31 19BCME05	Environment	Acquire complete knowledge about innovation and technical aspects of environment.
		Understand the concepts of working capital, factors affecting working capital management.
		Gather knowledge about management strategies in cash budgeting , control and its disbursement.
		Summarize various credit policy & its control of receivable management of trade credit.
	Working Capital	
		Evaluate the techniques of Inventory Management and its valuation.
32 19BCME06	Management	Acquire knowledge regarding working capital in Trade credit and Bank Finance.
		Acquire the conceptual knowledge of the International Financial Reporting Standards .
		Have the knowledge of Accounting for Assets and Liabilities.
	International Financial Reporting	
		Gather knowledge about theoretical Outline for the Preparation of Financial Statements.
		Understand the concepts of Preparation of Consolidated Financial Statements .
33 19BCME07	Standards	Know about the concept of Disclosure Standards Related party disclosure.
		Understand about the theoretical aspects of stock market
		Apply the workings of speculators and investors involved in stock exchange.

<p>Indian Capital 34 19BCME08 Markets</p>	<p>Know the various regulations and control over stock exchange Act.</p> <p>Gather knowledge on the latest discourse on practical issues and policies in the new financial environment</p> <p>Analyse the information regarding current scenario of stock exchanges</p>
	<p>It gives insights on branding initially and provides big picture of it.</p> <p>It gives insights on branding initially and provides big picture of it.</p> <p>Understand brand image and brand equity models.</p> <p>Leveraging brands and brand Extension.</p>
<p>Brand 35 19BCME09 Management BCOM(Corporate Secretaryship)</p>	<p>Equip with Brand valuation methods also the issues and challenges.</p> <p>The area is set to promote and showcase general communication and creativity skills with the learning potential of students</p> <p>Students should be able to obtain LSRW skills and help to explore knowledge in various genres</p> <p>Realize their responsibility towards the society centre through ethical, social and human values Students should be able to know the facts of environment and society which assist them to hold the values of life</p> <p>To obtain complete knowledge of Finance, Accounting, Taxation, Information Technology, Business law and other.</p> <p>Upgrade the knowledge required for implementing in business</p> <p>Equip with technical and entrepreneur skills to create innovation in global level</p>

Develop an attitude for working effectively and efficiently in the Competitive environment

Enable to get theoretical and practical exposure in the commercial and Technical sector

PROGRAMME OUTCOME (PO): Acquire complete skill based knowledge and applying in various spheres of Commerce

Serving as bases for Professional programmes such as ACS and CMA.

Create the students well versed in few areas of interest such as Accounting, Labour Legislation, Company Law and Taxation.

Build in student transcribing skills needed in positions such as Executive Secretary ,Manager and Administrative Assistant.

To Impart Students in Learning Multi Disciplinary knowledge through Projects and Industrial Training and providing a sustainable competitive edge in meeting the Industrial needs

PROGRAMME SPECIFIC

OUTCOME (PSO):

Course

To gain a strong foundation in different areas of Commerce and Information Technology

S.No Code Course Name

Course Outcome

Remember Basic Accounting concepts and transaction, to conceptualize accounting with double entry system

Determine and Preparing Financial Statements in accordance with appropriate accounting treatment.

Acquiring Knowledge in preparation of Receipts and Payments and Bank Reconciliation statements.

Analyze and apply the treatment of Negotiable Instrument Act

Fundamentals

1 21BCS101 of Accounting

Determining and preparing accounting statements in Consignment and Joint Venture.

Identify managerial activities that contribute to managerial effectiveness and recognize the theory of management

Develop plans with relevant people to achieve the project goals, determine the delegation of authorities

		Obtain the applicability of the concept of organizational dimension
		Demonstrate with various theories regarding directing and decision making in organization
2	21BCS102	Management Concepts
		Understand tools and techniques to be used in performance of managerial job.
		To conceptualize the nature of Economics and its relationship to Business operations.
		Understand the demand and supply analysis in business applications
		Determining the Economic concepts of utility/diminishing marginal utility to link the Economic theories.
		Construction of the production and cost structure under different Economic stages of production.
3	21BCSA01	Managerial Economics
		Evaluation of Pricing and output decisions in market structure
		Remember Basic Knowledge on depreciation and its methods, concepts and transaction, to conceptualiz accounting.
		Determine and Preparing Financial Statements in accordance with appropriate accounting treatment i Single entry and double entry system
		Acquiring Knowledge of Hire Purchase and Installment System and its accounting treatment
		Gain practical exposure in operating a branch independently with the knowledge of branch and department: accounts.
4	21BCS201	Financial Accounting I
		Determining and preparing statement of affairs in Self balancing ledgers.
		Understanding the nature, principles and regulatory frame work of insurance procedure of claiming insurance
		Understand the significance of insurance market structure, LIC Plans , Policies and provisions.

5 21BCS202	Law of Insurance	Understanding the nature, principles of Property and casualty Insurance, policy serving process. Identifying various types of risk, factors, evaluation and avoidance.
		Define the organization of computers.
		Discussion of the concepts of input output devices and various number systems.
		Define the structure and fundamental concepts of RAM,ROM and CDROM
6 21BCSA02	Fundamentals of Information Technology	Demonstrate the structure of database and use of spreadsheets. Discuss about the concepts of LAN and WAN.
		Acquiring Knowledge in Admission of partner, Revaluation of assets and liabilities and capital adjustment.
		Ensuring the knowledge in Retirement of a partner, Distribution of Cash and Close the books of the Firm.
		Ensuring the knowledge in Preparation of statement of affairs and various Deficiency Accounts.
7 19BCS301	Financial Accounting -II	Acquiring Knowledge in Preparation of statement of affairs and various Deficiency Accounts. Ensuring the Knowledge in Fire Claims for Loss of Stock and Normal and Abnormal Loss
		Recognize types of contracts, including formation and modification of contracts
		Identify the concepts behind free consent, mistake and misrepresentation
		Understanding the performance of contract.

8 19BCS302	Elements of Business Laws	Recall the features of Sale of Goods Act 1930
		Acquiring Knowledge in Various Kinds of companies and duties and liabilities of company secretary Ensuring the knowledge in Legal procedure of memorandum of association and Articles of association and their alteration in their contents
		Acquiring Knowledge in various types of prospectus and the secretarial duties.
9 19BCS303	Company Law & Secretarial Practice –I	Understanding the effective transfer and transmission of shares.
		Gaining Knowledge about Borrowing powers and Registration charges
		To familiarize with the basic concepts and practice of banking To understand the basic concepts and processes used to determine product costs, To be able to interpret cost accounting statements, and To be able to analyze and evaluate information for cost ascertainment,
		To give exposure about Demat and Remat account and the procedures, Rules concerning it
10 19BCS304	Corporate Practice- I	To familiarize the concept of PAN Card and GST and the procedure for registration. Understand the basic concepts and technologies used in the field of management information systems; Be aware of the ethical, social, and security issues of information system
		Define the term marketing and explain its role and importance in an individual firm and the overall economy.
		Acquiring Knowledge about product and pricing strategy.
		Analyze advertising and Define personal selling
11 19BCSSBI	SBC I Principles of Marketing	Identifying the market segmentation and buyer behaviour .
		Understanding the recent trends in marketing

		Acquiring Knowledge in Development of women entrepreneur and rural entrepreneur, characteristics of entrepreneurship.
		Ensuring the knowledge in various Project identification ,Report and Business Idea.
		Gaining Knowledge about the parameters to assess opportunities and constraints for new business ideas
	SBC I	Gaining Knowledge about Institutional services and finance to entrepreneurs.
12	19BCSSB2 Entrepreneurial Development	Understanding the Incentives and subsidies and Small Scale Industry.
		Ability to identify and use the elements of multimedia
		Able to identify the concepts of audio
		Understand the concept of animation
	EDC :	Understand the types of multimedia
13	19BCSED1 Multimedia	Understand the types of morphing
		Enabling the students to understand the features of Shares and Debentures and Understand the treatment regarding issue of bonus shares and treatment of prior period profits
		Develop an understanding about redemption of Preference Shares, methods of Underwriting.
		To provide knowledge on Redemption of Debentures and methods of Interest quotations
		:To give an exposure on Goodwill and to calculate the value of Goodwill and shares to the company
14	19BCS401 Corporate Accounting-I	Develop knowledge on drafting Final Accounts of Companies, and Profits prior to incorporation. Acquiring Knowledge in provisions of Companies Act relating to meetings, resolutions and Company Management

		Ensuring the knowledge in manager and managing director duties and liabilities.
		Understanding the auditors qualification and appointment and various types of circulation and filing.
	Company Law and Secretarial	Gaining knowledge about Power of Board of Directors Regarding Dividend and IEPF.
15	19BCS402 Practice –II	Acquiring Knowledge in Companies act relating to winding up, Liquidator and National law Tribunal.
		Understanding the Indian Constitution
		To familiarize in Transfer of Property Act.
		Understanding the procedure of registration of document.
		Acquiring Knowledge in Stamp Act and the consequences of non registration.
16	19BCS403 General Law	To get the exposure in Right to Information Act 2005.
		To familiarize with the concept relating to SSI and practical procedures relating to formation of SSI
		To understand the concepts of partnership and procedures for registration
		Demonstrate comprehensive and accurate knowledge and understanding of those areas of company law.
		To make aware on the concept of Director Identification Number (DIN).
17	19BCS404 Corporate Practice -II	To demonstrate the complete procedures AND laws relating to EXIM.
		Understanding the various types of communication.
		To familiarize in various business correspondence.

		To get the exposure in bank, Insurance, corporate secretary correspondence
	SBC II Corporate	Identifying various types of report and its importance.
18 19BCSSB3	Communication	To gain knowledge in Management Information System Explain the importance of human resources and their effective management in organizations and To be aware of the role, functions and functioning of human resource department of the organizations. Nature and use of Job analysis information, Steps in job analysis, Methods of Collecting Job analysis: Information, Writing job descriptions and job specifications.
	SBC II Human Resource	To Design and formulate various HRM processes such as Recruitment, Selection, Training, Development, Performance appraisals and Reward Systems, Compensation Plans and Ethical Behavior and Design a performance appraisal and a reward system for the organization
19 19BCSSB4	Management	To acquire knowledge about various Labour Laws, Responsibilities and rights of Employers and Employees Enable the students to understand about amalgamation, absorption and external reconstruction To make them aware about accounts of banking companies Keep them aware about accounts of insurance companies Enable the students to gain an idea of liquidation of companies
20 19BCS501	Corporate Accounting-II	To introduce and develop knowledge of holding companies accounts Acquiring the familiarization of the concept of cost accounting Facilitating the idea and meaning of material control with pricing methods Developing the knowledge about remuneration and incentives

	Cost	Helps to gather knowledge on workings of process costing
21 19BCS502	Accounting	To acquire the knowledge on the concept of job, contract and operating cost
		Understand the laws relating to Factories Act
		To enlighten the concept of Industrial disputes Act
		Acquiring the knowledge on the basic concept of Employees compensation Act
		To make them aware about Payment of Wages ACT
22 19BCS503	Industrial and Labour Laws	Acquiring the idea on Trade Unions Act and Employees Provident Fund Act.
		To understand the concept of Corporate Governance
		Describing the concept and Roles of the Board.
		Helps to gather knowledge on Company and Secretarial Audit
		Acquiring an overview on E-Governance and Corporate restructuring
23 19BCS504	Corporate Governance	Creating the awareness about Corporate Social Responsibility
		Helps in preparing documents in MS.Word and various alignment procedure
		Demonstrate the creation of tables and charts and various other functions in Ms.Excel
		To Design the slides and charts in MS.Powerpoint
	IDC Lab I Ms	Helps to create different database in Ms access

24 19BCSP01	Office and Tally	<p>Develop a knowledge about creation of companies and Working with tally</p> <p>To introduce the basic concept of Income Tax</p> <p>In order to familiarize the different know-how and heads of income with its components</p> <p>It helps to build an idea about income from house property as a concept</p> <p>To enlighten the concept of income from other source</p>
25 19BCSE01	Taxation I	<p>To determine the concept of assessment of individual</p> <p>Aiming to enable the students to get the Know-how of Financial Management in its Wide aspects</p> <p>Create an interest in investment habit keeping its wide scope</p> <p>Familiarize the concept of lease financing venture Capital and Mutual Fund Introduce the concept of Capital Theories</p> <p>Familiarize the concept of Working Capital</p>
26 19BCSE02	Financial Management	<p>In order to equip the students with details about foreign collaboration and multinational corporate</p> <p>Demonstrate the applicability of the concept of organizational behavior to understand the behavior of people in the organization.</p> <p>Demonstrate the applicability of analyzing the complexities associated with management of individual behavior in the organization.</p> <p>Analyze the complexities associated with management of the group behavior in the organization.</p> <p>Demonstrate how the organizational behavior can integrate in understanding the motivation</p>
27 19BCSE03	Organisational Behaviour	<p>To provide the students to analyse specific strategic human resources demands for future action</p>

		To Understand the practical exposure of manufacturing concern
		To obtain knowledge about different departments activities
		To gain knowledge on auditing Practice and procedures
		To understand the efficiency and utilisation of time management
28	19BCSITI	Institutional Training
		To make the students to gain more knowledge on group behaviour
		Demonstrate the applicability of the concept of Accounting to understand the managerial Decisions an financial statements
		Apply the Financial Statement Analysis associate with Financial Data in the organization and Calculat various accounting ratios, reports and relevant data..
		Prepare Cash Flow and Funds Flow statements this helps in planning for intermediate and long-terr finances.
		Develop and apply standards and budgets for planning and controlling purposes.
29	19BCS601	Accounting For Management
		Analyze cost-volume-profit techniques to determine optimal managerial decisior
		Encourage to know competition Act and its regulation
		Acquire knowledge on Environmental Laws
		Enhance the concept of Foreign exchange management Act
		Demonstrating competency with the use of Intellectual Property Rights
30	19BCS602	Corporate& Economic Law
		Develop an awareness of the Consumer Protection Act.
		Understand the Financial and money market

		To enlighten the concept of Securities regulation Act 1956
		To introduce the basic concept of intermediaries and their roles
31	19BCS603	Securities Law and Financial Markets
		To make them aware about SEBI and Mutual Fund
		Describe the concept of Depositories Act 1996
		To define various types of taxation and overview of Goods and service tax.
		Acquiring the knowledge on the conditions and restriction of Supply
	19BCSE04	To define the evaluation of ITC and its utilization
		To acquire the knowledge on IGST
32		Taxation - II
		Able to understand Custom duty and its levy and exemptions
		Understanding about the Factors Influencing Investments
		Helps to give proper idea of Capital Market and Stock Exchange in India
		Helps to give proper idea of Preference and Equity Shares and LIC
		Acquiring knowledge about Fundamental and Technical Analysis and Evaluation
33	19BCSE05	Investment Management
		Acquiring knowledge about Portfolio Analysis and Management
		Understanding the firms involved in management
		Analyzing and Summarize the key challenges facing retailers

		Understanding the overall change in the structure of the profit planning and budgeting process	
		Acquiring knowledge on operational dimension and computerization outsourcing	
	Retail Business		
34	19BCSE06	Management	Helps to face the social responsibility and ethical values Understand the audit process from the engagement planning stage through completion of the audit, as well as the rendering of an audit opinion via the various report options understand to describe the various levels of persuasiveness of different types of audit evidence and explain the broad principles of audit sampling techniques
			Learn to explain the rights and duties of auditor
		Auditing Practice and Principles	
35	19BCSE07		Learn to Determine the appropriate audit report for a given audit situation and develop audit plan Helps to understand recent trends in Auditing
			Understand the meaning and concepts of working capital Management and new trends in working capital. Evaluate working capital effectiveness of a company based on its operating and cash conversion cycle: and compare the company's effectiveness with that of peer companies. Evaluate a company's management of accounts receivable, inventory, and accounts payable over time and compared to peer companies.
		Working Capital Management	
36	19BCSE08		Identify and evaluate the necessary tools to use in managing a company's net daily cash position Evaluate the choices of short-term funding available to a company and recommend a financing method.
			Understanding the concepts related to Business.
			Demonstrating the Industrial Policies and regulations
			Analyzing effective application of economic system and economic planning

37 19BCSE09	Business Environment	<p>Understanding the complexities Technological environmental factors</p> <p>Integrate the learning in handling the complexities like Globalisation of Indian Business, Demerits of MNCs</p>
		<p>To acquire practical knowledge on the implementation of perceptions studied through the programme.</p> <p>practical exposure in the Project work, knowledge which will equip the students in Research work.</p> <p>acquire practical knowledge on the implementation of the programming concepts studied.</p> <p>acquire knowledge on framing of objective and defining the problem</p>
38 19BCSPR1	Project and Viva Voce	<p>Practical exposure on presenting the project</p>
B Com Information Technology		<p>The area is set to promote and showcase general communication and creativity skills with the learning potential of students</p> <p>Students should be able to obtain LSRW skills and help to explore knowledge in various genres</p> <p>Realize their responsibility towards the society centre through ethical, social and human values</p> <p>Students should be able to know the facts of environment and society which assist them to hold the values of life</p> <p>To obtain complete knowledge of Finance, Accounting, Taxation, Information Technology, Business law and other.</p> <p>Upgrade the knowledge required for implementing in business</p> <p>Equip with technical and entrepreneur skills to create innovation in global level</p> <p>Develop an attitude for working effectively and efficiently in the Competitive environment</p>

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S.No Code Course Name

Course Outcome

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Determine and Preparing Financial Statements in accordance with appropriate accounting treatment.

Acquiring Knowledge in preparation of Receipts and Payments and Bank Reconciliation statements.

Analyze and apply the treatment of Negotiable Instrument Act

Financial

1 21BCI101 Accounting

Determining and preparing accounting statements in Consignment and Joint Venture.

Determining the layout to achieve desired formatting and calculations for accurate workbook design.

Discussion of the concepts of design templates, text slide layout, transitions, and clip art in PowerPoint.

Define the structure and fundamental concept of C programming.

2 21BCI102	Introduction to Information Technology	<p>Demonstrate various decision making statements.</p> <p>Construct program using functions, structures and union.</p> <p>To conceptualize the nature of Economics and its relationship to Business operations.</p> <p>Understand the demand and supply analysis in business applications</p> <p>Determining the Economic concepts of utility/diminishing marginal utility to link the Economic theories.</p> <p>Construction of the production and cost structure under different Economic stages of production.</p>
3 21BCIID1	Managerial Economics	<p>Evaluation of Pricing and output decisions in market structure</p> <p>Remember Basic Knowledge on depreciation and its methods, concepts and transaction, to conceptualiz accounting.</p> <p>Determine and Preparing Financial Statements in accordance with appropriate accounting treatment i Single entry and double entry system.</p> <p>Acquiring Knowledge of Hire Purchase and Installment System and its accounting treatment</p> <p>Gain practical exposure in operating a branch independently with the knowledge of branch and department accounts.</p>
4 21BCI201	Financial Accounting II	<p>Determining and preparing statement of affairs in Self balancing ledgers.</p> <p>Determining the layout to achieve desired formatting and calculations for accurate workbook design.</p> <p>Discussion of the concepts of design templates, text slide layout, transitions, and clip art in PowerPoint.</p> <p>Define the structure and fundamental concept of C programming.</p> <p>Demonstrate various decision making statements.</p>

5 21BCIP01	Information Technology	Construct program using functions, structures and union.
		<p>Acquire basic concepts of market, Marketing, Selling, Modern Marketing Function and process. Understand the Concept of Product and Price mix , application of Pricing policies, and methods of Price determination.</p> <p>Have a comprehensive knowledge on Channel of distribution of goods, personal selling and advertising Functions of middlemen and Sales promotion programme.</p> <p>Analyze the organisational structure of Marketing, Marketing Segmentation, Buying Behaviour Process and Models.</p>
6 21BCIA02	Principles of Marketing	Impart skill on Recent trends in Marketing and Market Research.
		<p>Acquiring Knowledge in Admission of partner, Revaluation of assets and liabilities and capital adjustment.</p> <p>Ensuring the knowledge in Retirement of a partner, Distribution of Cash and Close the books of the Firm.</p> <p>Ensuring the knowledge in Preparation of statement of affairs and various Deficiency Accounts.</p>
7 19BCI301	Core 4 Financial Accounting-III	<p>Acquiring Knowledge in Preparation of statement of affairs and various Deficiency Accounts. Ensuring the Knowledge in Fire Claims for Loss of Stock and Normal and Abnormal Losses</p>
		Demonstrate Data Communications System and its components.
		<p>Summarize functionalities of different Layers and Networking Literature Identify and Analysis of basic protocols of computer networks, and how they can be used to assist in network design and implementation Identify and Analysis of basic protocols of computer networks, Identify the development and history of routing Protocols.</p>
8 19BCI302	Core 5 Networking Management	Identify and Analysis of basic protocols of Business networks, and how they can be used to assist in network design and implementation.

		Understand the object oriented program concepts and data types in C++
		Understand the parts of functions and types of functions such as friend function and static function
		Ability to know about the operator overloading and types of inheritance.
	Core 6	
	Programming	Ability to demonstrate the use of polymorphism and virtual functions
	With C++	
9	19BCI303	[Theory] Understand the types of file stream classes and use of templates
		Provides a thorough introduction to the C++ programming language
		Understand basic structure of the C++ Programming ,declaration and usage of variables
	Core Lab 2	
	Computer	Write C++ programs using constructors and destructors and inline functions.
	Application	
	Practical's	Write C++ programs using operators and perform operator overloading.
	[C++]	
10	19BCIP02	write C++ programs using concepts of files.
		Understanding the various types of communication.
		To familiarize in various business correspondence.
		To get the exposure in bank, Insurance, corporate secretary correspondence.
	SBC I	
	Corporate	Identifying various types of report and its importance.
	Communication	
11	19BCISB1	To gain knowledge in Management Information System.
		Understand the concept of E-Business and describe the types of e-commerce

		Understand the concepts of intranet, extranet and working of Electronic data interchange
		To understand and identify security issues of E-Business
	SBC I	Able to handle electronic payment technology and requirements for internet based payments
12	19BCISB2 E- Business	Understand the concept of WEB Based Business and advertising
		Ability to identify and use the elements of multimedia
		Able to identify the concepts of audio
		Understand the concept of animation
		Understand the types of morphing
	EDC :	Understand the types of morphing
13	19BCIED1 Multimedia	Enabling the students to understand the features of Shares and Debentures and Understand the treatment regarding issue of bonus shares and treatment of prior period profits
		Develop an understanding about redemption of Preference Shares, methods of Underwriting.
		To provide knowledge on Redemption of Debentures and methods of Interest quotations
		To give an exposure on Goodwill and to calculate the value of Goodwill and shares to the company
	Core 7	Develop knowledge on drafting Final Accounts of Companies, and Profits prior to incorporation.
	Corporate	
14	19BCI401 Accounting	Acquiring Knowledge in Various Kinds of companies and duties and liabilities of company secretary Ensuring the knowledge in Legal procedure of memorandum of association and Articles of association at different alteration in their contents

		Acquiring Knowledge in various types of prospectus and the secretarial duties.	
		Understanding the effective transfer and transmission of shares, Share Warrants	
	Core 8		
	Company Law & Secretarial	Gaining Knowledge about Borrowing powers and Registration charges	
15	19BCI402	Practice	Able to describe data models, schemas and architecture of DBMS
			Acquiring knowledge about the working of relational algebra operators and types of keys in DBMS
			Gaining knowledge about the types of normalization
			Able to understand the structure of hierarchical database
	Core 9		
	Database Management		understanding the structure of network database
16	19BCI403	System	Describe the basic queries to create table, insert values into the table and display the values from the table
			Explain the basic working of update queries
			Explain the basic concepts of working of sub queries and nested queries
			Design table with primary key and foreign key constraints
	Core Lab 3		
	Database Management		Familiar with basic concepts of creation of views.
17	19BCIP03	System Lab	To familiarize with the basic concepts and practice of banking
			To understand the basic concepts and processes used to determine and to interpret cost accounting statements, and to evaluate information for cost ascertainment, planning, control and decision making
			To give exposure about Demat and Remat account and the procedures, Rules concerning it.

18	19BCISB3	SBC II Commerce Practical	<p>To familiarize the concept of PAN Card and GST and the procedure for registration.</p> <p>Understand the basic concepts and technologies used in the field of management information systems; F aware of the ethical, social, and security issues of information system</p> <p>Ensuring the knowledge in objectives and functions of management.</p> <p>Acquiring Knowledge in recruiting, selecting retail personnel and supervision.</p> <p>Understanding Financial dimensions and ongoing budgeting process.</p> <p>Gaining Knowledge about computerization and outsourcing.</p>
19	19BCISB4	SBC II Brand Management	<p>Ensuring the knowledge in ethical values in relation to customers</p> <p>Acquiring the familiarization of the concept of cost accounting</p>
20	19BCI501	Core 10 Cost Accounting	<p>Facilitating the idea and meaning of material control with pricing methods</p> <p>Developing the knowledge about remuneration and incentives</p> <p>Helps to gather knowledge on workings of process costing</p> <p>To acquire the knowledge on the concept of job, contract and operating cost</p> <p>To introduce the basic concept of Income Tax</p> <p>In order to familiarize the different know-how and heads of income with its components</p> <p>It helps to build an idea about income from house property as a concept</p> <p>To enlighten the concept of income from other source</p>

		To determine the concept of assessment of individual
21	19BCI502	<p>Core 11 Taxation -I</p> <p>Recognize types of contracts, including formation and modification of contracts</p> <p>Identify the concepts behind free consent, mistake and misrepresentation</p> <p>Understanding the performance of contract Recall the features of Sale of Goods Act 1930 Identify the fundamental legal principle behind contractual agreements</p>
22	19BCI503	<p>Core 12 Legal Business Concepts</p> <p>Acquire problem solving techniques and to be able to present coherent, concise legal argument</p> <p>To understand the concept of VB Applications and Integrated Development Environment</p> <p>To understand about the variables and data types used</p> <p>To understand about standard Controls and various controls in Visual Basic</p> <p>To provide knowledge about Control Arrays.</p>
23	19BCI504	<p>Core 13 Software Development In Visual Basic</p> <p>To provide knowledge about Data Access objects and Reports.</p> <p>To Understand the concept of VB Environment and Perform Small Programs</p> <p>Develop Menu based programs for Text manipulation</p> <p>Develop a Graphical User Interface (GUI) based on problem description</p>
		<p>Core Lab 4 Software Development In</p> <p>Develop the applications using Data Grid for displaying records.</p> <p>To provide knowledge aboutMDI form creation</p>

	Visual Basic	
24	19BCIP04 Lab	<p>Explain the concept of ecommerce and its revolution</p> <p>Explain and develop solutions for implementing an ecommerce site</p> <p>: Be aware of the ethical, social, and security issues of information systems;</p> <p>: Implement, in simulation or authentically, an ecommerce site.</p>
	19BCIE01	<p>Explain the infrastructure of the Internet and how the various elements contribute to marketing distributio solution</p>
25	E-Commerce	<p>Aiming to enable the students to get the Know-how of corporate finance in its wide aspects</p> <p>To create an interest in investment habit keeping its wide scope</p> <p>To familiarize the concept of lease financing venture Capital and Mutual Fund</p> <p>To introduce the concept of Capital Market</p>
26	19BCIE02 Corporate Finance	<p>In order to equip the students with details about foreign collaboration an multinational corporates</p> <p>Demonstrate the applicability of the concept of organizational behavior to understand the behavior of people in the organization.</p> <p>Demonstrate the applicability of analyzing the complexities associated with management of individual behavior in the organization.</p> <p>Analyze the complexities associated with management of the group behavior in the organization.</p> <p>Demonstrate how the organizational behavior can integrate in understanding the motivation</p> <p>To provide the students to analyse specific strategic human resources demands for future action</p>
27	19BCIE03 Organizational Behavior	<p>To Understand the practical exposure of manufacturing concern</p>

		To obtain knowledge about different departments activities
		To gain knowledge on auditing Practice and procedures
		To understand the efficiency and utilisation of time management
28	19BCIIT1	<p>Institutional Training</p> <p>To make the students to gain more knowledge on group behaviour Demonstrate the applicability of the concept of Accounting to understand the managerial Decisions and financial statements Apply the Financial Statement Analysis associate with Financial Data in the organization and Calculate various accounting ratios, reports and relevant data.. Prepare Cash Flow and Funds Flow statements this helps in planning for intermediate and long-term finances.</p>
		Develop and apply standards and budgets for planning and controlling purposes. Analyze cost-volume-profit techniques to determine optimal managerial decisions
29	19BCI601	<p>Core 14 Accounting for Management</p> <p>To understand the concept of protocols used in internet.</p> <p>Use a stand-alone FTP program to upload files to a web server.</p> <p>Understand the principles of creating an effective web page</p> <p>Helps to give proper idea on table creation and formatting of fonts.</p> <p>To understand about forms and frames tag in HTML.</p>
30	19BCI602	<p>Core 15 HTML</p> <p>Remember the internet related concepts that are vital in understanding web development</p> <p>To Understand the concept of HTML list and link tag.</p>

		Understand the important HTML tags for designing
		To Develop interactive web applications through coding using HTML
		Helps to give proper idea on html forms and frames tag.
31	19BCIP05	Core Lab 5 [HTML Lab]
		Aiming to enable the students to get the Know-how of Financial Management in its Wide aspects
		Create an interest in investment habit keeping its wide scope Familiarize the concept of lease financing venture Capital and Mutual Fund Introduce the concept of Capital Theories
	19BCIE04	Familiarize the concept of Working Capital
		In order to equip the students with details about foreign collaboration and multinational corporate
32		Financial Management
		To enlighten the students about the software Development Life Cycle models
		Helps to give proper idea of software planning and scheduling
		Helps to give proper idea of software Team Organization
		To understand the process of Software Quality Assurance and Configuration Management
		Helps to how to tackle the risks associated with development of software
33	19BCIE05	Software Engineering
		To understand the concept of Corporate Governance
		Describing the concept and Roles of the Board.
		Helps to gather knowledge on Company and Secretarial Audit

		Acquiring an overview on E-Governance and Corporate restructuring
		Creating the awareness about Corporate Social Responsibility
34	19BCIE06	Corporate Governance
		Understand the concept of Various Line Drawing Algorithms
		Helps to gather knowledge on 2D Geometrical Transformations
		Describing the concept of Various Color Models.
		Acquiring an overview on Components of Multimedia.
		Creating the awareness about Multimedia Communication Systems.
35	19BCIE07	Multimedia & its Applications
		To understand about the Factors Influencing Investments
		Helps to give proper idea of Capital Market and Stock Exchange in India
		Helps to give proper idea of Preference and Equity Shares and LIC
		To provide knowledge about Fundamental and Technical Analysis and Evaluation
		To provide knowledge about Portfolio Analysis and Management
36	19BCIE08	Investment Management
		Understand the meaning and concepts of working capital Management and new trends in working capital.
		Evaluate working capital effectiveness of a company based on its operating and cash conversion cycle and compare the company's effectiveness with that of peer companies.
		Evaluate a company's management of accounts receivable, inventory, and accounts payable over time and compared to peer companies.
		Identify and evaluate the necessary tools to use in managing a company's net daily cash position

	Working Capital Management	Evaluate the choices of short-term funding available to a company and recommend a financing method.
37 19BCIE09		To Understand the problem and defining the title of the projects
		To obtain knowledge about framing questionnaire and hypothesis
		To gain knowledge on various tools and procedures of sampling
		To understand the efficiency and utilisation of time management
38 19BCIPR1	Project and Viva Voce	To make the students to gain more knowledge on group behaviour and to arrive findings suggestion and conclusion

B COM (CA)

The graduates will be able to
Have complete knowledge of Finance, Accounting, Taxation, Information Technology, Business laws and other

Equip with professional, interpersonal and entrepreneurial skills.

Gear up with updated knowledge in implementing business practices

Evaluate environmental factors that influence business operation.

PROGRAMME OUTCOME (PO): Prepare for post graduate studies and to achieve success in their professional careers
Create the students well versed in few areas of interest such as Accounting, Taxation, Auditing, Software Developer, Software Application and Web Designer
Students will demonstrate that they can present the results of their observations and research in a way that is objective, technically accurate, and legally acceptable

PROGRAMME SPECIFIC OUTCOME (PSO): Students will use effective technology appropriately, such as PowerPoint, slides, posters, handouts, and transparencies in oral presentations.

s.No	Course Code	Course Name	Course Outcome
1	21BCC101	Financial Accounting –I	<p>Define book keeping and accounting</p> <p>Describe the elements of financial accounting information - assets , liabilities , revenue and expenses</p> <p>Explain general purposes and functions of accounting</p> <p>Identify the main financial statements and their purposes.</p> <p>Knowledge about finalizing the accounts of a company.</p>
2	21BCC102	Office Automation C Programming	<p>Know the basic components of the computer and working of each device</p> <p>Understand the representation of data in a computer</p> <p>Describe the reason why different decision making and control structures.</p> <p>Demonstrate algorithms to solve simple programming problems using loops and arrays</p> <p>Develop C programs for data structure concepts with functions</p>
3	21BCCA01	Managerial Economics	<p>Identify the sources of economic value.</p> <p>Create new market opportunities through differentiation</p> <p>Understand the mechanisms of and competitions and their business</p> <p>Anticipate future market trends and dynamics</p> <p>Describe the concept depreciation , reserve and provisions</p>

Ascertainment of Profit in Single entry System

Knowledge about Self balancing ledger accounts

Explain the Accounting Treatment in Hire purchase and Instalment System

Financial

4 21BCC201 Accounting –II Describe the concept of Branch accounts

Evaluate approaches to addressing issues of diversity

Determine the most effective action to take in specific situations

Integrate management principles and management practices

Assess global situation , including opportunities and threats that will impact management of an organisation

Specify how the managerial task of planning organizing , and controlling can be executed in a variety of circumstances.

Principles of

5 21BCCA02 Management

Solve the problems, present the ideas, write the letters and etc... using MS office package

Design algorithms and flow charts

Understand the fundamentals of Cprogramming

Office

Automation C

Programming

Choose the loop and decision making statements to solve the problem

6 21BCCP01 Lab

Understand file operations in C programming for a given applications

Determine the adjustment in admission of new partner

Explain the Accounting Treatment in retirement of partner

Modes of Dissolution of Partnership firm

Concept of Insolvency of partners

Financial

7 19BCC301 Accounting –III Describing about the insolvency of Individual and partnership firm

Understand how organizations identify customers and their wants/needs.

Apply key frameworks and methods, and develop analytical skills to solve marketing problems.

Provide with a firm foundation in marketing Concept

Relate the impact of marketing and its integration with own major or field of interest.

8 19BCC302 Principles of marketing Comprehend marketing decisions, based upon the combination of product, price, promotion, and distribution elements.

Understand how C++ improves C with object-oriented features.

Describe the object-oriented programming approach in connection with C++

Understand the features of C++ supporting object oriented programming

Understand the relative merits of C++ as an object oriented programming language

9 19BCC303 Programming in C++

Understand how to create files using C++

Apply the concepts of object-oriented programming

Manipulate objects

Implement advanced use of arrays in C++ programming.

	Programming Lab in C++ and TALLY	Acquire knowledge about creating a company and preparing Trial Balance of a company using Tally
10	19BCCP02 Lab	Apply virtual and pure virtual function & complex programming situations
		Providing a strong foundation in fundamental accounting concepts and conventions
		providing practical knowledge accounting process with practical examples and entries in Tally
		Gives the knowledge about the growth perspectives of economy
		The wider understanding about taxation system and procedures of the state
11	19BCCSB1 Tally and GST	Enhance the knowledge of technical aspects of Tally
		Identify the fundamentals needs and importance of maintaining a good customer relationship
		Understand the customer relationship management concepts, techniques and strategies
		Elucidate the students with the successful framework of CRM and its implementation in an organisation
		Analyse the customer satisfaction by implementing CRM practices, strategies and techniques thereby, t
	Customer Relationship Management	retain customers as well as to achieve long term profitability
12	19BCCSB2	Use strategic customer acquisition and retention techniques in CRM with an introduction of CRM softwar packages
		Understanding the meaning and growth, necessity of Human Resource management
		Competency to recruit, select, train and appraise the performance of employees
	Human Resource Management	Rational design of compensation and salary administration
13	19BCCOE1	Knowledge about industrial disputes and Grievance redressal procedures.

		Understanding the practical exposure of manufacturing concern
		Obtaining knowledge about different department's activities
		Gaining knowledge on auditing Practice and procedures
		Understanding the efficiency and utilisation of time management
14	19BCCPR1	Institutional training
		Enabling the students to gain more knowledge on group behaviour
		A comprehensive understanding of the advanced issues in accounting for assets, liabilities and owner equity.
		an understanding of the accounting requirements for a corporate group.
		An understanding of the regulatory environment in which the companies are formed and operate in India.
		The ability to prepare consolidated accounts for a corporate group.
15	19BCC401	Corporate Accounting
		an understanding of the accounting requirements and familiarity with the theory underlying the method used to account for inter-company investments.
		Understand the scope, sources and growth of mercantile law
		Understand about the Indian contract act 1872.
		Understand the Law relating to sale of goods , Contract of Agency
16	19BCC402	Mercantile Law
		Understand the law relating Negotiable instruments such as Bills, Promissory note and Cheques
		Describe data models and schemas in DBMS
		Design ER-models to represent simple database application scenarios

		Build indexing mechanisms for efficient retrieval of information from a database
	Database Management System	Understand the features of database management systems and Relational database
17	19BCC403	Uses of SQL-the standard language of relational databases
		Understand the concept of Transaction and Query processing
		Analyze the database using queries to retrieve records
		Populate and query a database using SQL DML/DDDL commands
	Database Management System Lab	Define, develop and process single entity, 1:1, 1:M, and M:M database tables
18	19BCCP03	Design and implement a database schema for a given problem-domain
		Understand about basics of multimedia and various multimedia tools
		Apply the various text format using front editing and design
		Understand the concepts of MIDI with various projects
	Introduction to Multimedia	Analyse the audio and video formats to display the digital video
19	19BCCSB3	Apply the various images with colours for animations
		Able to understand basic principles of psychology
		able to understand major concepts, different perspectives of psychology
		Understand the psychological way of thinking

		to understand role of biological base in human behaviour
20	19BCCSB4	Human psychology
		to develop comprehensive understanding of inter disciplinary issues and aspects of society
		Explains the purpose of cost accounting
		Defines the concept of cost, expense, loss and revenue
		Calculate inventory cost according to the inventory valuation techniques
		Explain cost from the view point of the relationship with cost centers
21	19BCC501	Cost Accounting
		Calculate Labour cost using various methods.
		Able to describe provisions in the corporate tax in the laws can be used for tax planning.
		Able to explain different types of income and their taxability and expenses and their deductibility.
		Able to learn various direct taxes and their implications in practical situations.
		Able to state the use of various deductions to reduce the taxable income.
22	19BCC502	Income tax law and practice
		Able to understand the rebates available under the act.
		Enable the students to learn the fundamentals of being a good entrepreneur and the Concept of entrepreneurship, Knowledge about the financing institutions, project report
		Create awareness about the the institutional finances available for entrepreneurs
		Explain the subsidies granted by the government for the budding and existing entrepreneurs
23	19BCC503	Entrepreneurial Development
		Understand the process of project identification, formulation, and preparing a project report

		Understand .NET Framework and describe some of the major enhancements to the new version of Visual Studio.
		Describe the basic structure of a Visual Basic.NET project and use main features of the Integrated Development Environment (IDE).
		Create applications using Microsoft Windows® Forms.
		Create applications to use ADO.NET.
24	19BCC504	Visual Basic .Net Applying Result Using Crystal Reports.
		Working various VB.Net Controls.
		Handling Mouse Events in Forms.
		Debugging VB .NET Applications.
		Working with Multiple Forms and MDI Applications.
25	19BCCP04	Visual Basic .Net Lab Working with Menus and Common Dialogs Date Time Picker, Month Calendar, Splitter Using the StatusBar.
		Understand the commercial banking system and structure
		Develop better understanding on different types of deposits, their benefits etc
		Know the procedural formalities in dealing with different types of customers
		Familiar with the basic principles of insurance
26	19BCCE01	Banking and Insurance Law Demonstrate the characteristics of life and General Insurance
		Recognize career opportunities in available in Retail business

		Know the procedures on Setting up a Retail Organization
		Understand the Ethical Values in relation to Customers, Community & Shareholders , General public .
	Retail Business	
27	19BCCE02	Management Know about Profit Planning, Preliminary Budget Decisions and Ongoing Budgeting Process.
		To understand and demonstrate writing and speaking processes through invention and presentation. To understand the importance of specifying audience and purpose and to select appropriate communication choices
		To develop the ability to research and write a Report
	Corporate	
28	19BCCE03	Communication To be effectively in writing minutes and on preparing agenda
		To Understand the problem and defining the title of the projects
		To obtain knowledge about framing questionnaire and hypothesis
		To gain knowledge on various tools and procedures of sampling
	Research	
29	19BCCPR2	Project To understand the efficiency and utilisation of time management
		Explain the importance of management accounting for business
		Analyzes the relationship between the cost volume and profit
		Defining budgeting and operating budget concept
		Explains break-even sales price, contribution, margin of safety and profit margin concept.
	Management	
30	19BCC601	Accounting Describes determination of standard cost.

Understand the functions of each layer in OSI and TCP/IP model.

Understand the types of transmission media with real time applications.

Design a responsive Website and Implement interactive web page(s).

Demonstrate Rich Internet Application.

Web Designing

31 19BCC602 and Networking Describe and differentiate different Web Extensions and Web Services.

To get familiar with basics of the Internet Programming.

To acquire knowledge and skills for creation of Website.

To gain ability to develop responsive web applications.

Web Designing To explore different web extensions and web services standards.
and Networking

32 19BCCP05 Lab Understand data link concepts designing with Forms and frames.

Provide analytical tools to understand opportunities in unserved or under served new economy market

Provide guiding principles behind the design and strategy of the customer web interface.

Provide insights on how to implement in the new economy

understand the fundamentals of financially valuing new economy companies

33 19BCCE04 E-Commerce Provide a fundamental understanding of the different types and key component on business models in tl
new economy.

Explain about the relationship between international trade and domestic trade , its developments.

		Study about the theory and practice of International trade of Trade related policies.
	Principles of International Trade	Provide students with a thorough grounding in the theory of international trade.
34	19BCCE05	Understand the meaning, importance and benefits of Multi National Corporation
		Educate the students about Investments and influencing factors
		Know about functioning of stock exchanges
		Know about the Shares and Mutual Funds
35	19BCCE06	Know about Trading mechanism and Role of SEBI
	Investment Management	Explain the purpose and context of external audit and other assurance engagements
		Explain the principles of good corporate governance and application of professional and ethical codes.
		Explain the nature of internal audit and its relationship with external audit.
		Demonstrate an auditor's plan to audit as per international standards of auditing.
36	19BCCE07	Evaluate the findings of the audit and assess their potential impact on auditor's report.
	Principles of Auditing	Analyse the expanding environment of Media and communication techniques
		Develop creative strategies for advertising
	Advertising and Sales	Plan media strategy, scheduling and vehicle selection
37	19BCCE08	Assess strategies and uses of sales promotions
	Promotion	

Brand
38 19BCCE09 Management

Acquire basic understanding of brands and its significance, Various types

Know about brand ambassadors , Brand extension ,brand positioning and brand image building

Understand Brand rejuvenation and re-launching of brands

Understand Designing and implementing branding strategies

To Understand the problem and defining the title of the projects

To obtain knowledge about framing questionnaire and hypothesis

To gain knowledge on various tools and procedures of sampling

To understand the efficiency and utilisation of time management

Project and
39 19BCCPR3 Viva Voce

To make the students to gain more knowledge on group behaviour and to arrive findings suggestion and conclusion

B.COM (PA)

The area is set to promote and showcase general communication and creativity skills with the learning potential of students.

Students should be able to obtain LSRW skills and help to explain knowledge in various genres.

Realize their responsibility towards the society centre through ethical and social and human values.

Students should be able to know the facets of environment and society which assist them to hold the value of life.

Ability to acquire the knowledge in the field of Finance, Accounting, Taxation, Business law and other laws.

Gaining the professional skills and entrepreneurial skills to face the challenges of the corporate world.

An understanding of Professional and Ethical Responsibility.

Develop the insights of students on changes in business practices.

A recognition of the need for and an ability to engage in Life –long Learning.

Graduates will attain and exhibit skills to work as team to take effective decision in achieving the commc goals.

PROGRAMME OUTCOME (PO):

Enables the students to prove proficiency with the ability to engage in competitive exams like CA, CSE, ICWA and other course.

The graduates will be able to apply the accounting knowledge and expertise to add ethical values of business in efficient decision making.

Graduates will able to think innovatively and convert challenges into opportunities as an employer in the professional field, eventually providing solution for the betterment of society.

Prepare them for updating knowledge continuously based on their chosen professional career through lifelong independent learning committed to ethical and social responsibilities pertaining to the professional

PROGRAMME SPECIFIC OUTCOME (PSO):

Graduates of the programme will be able to acquire practical knowledge to work as a tax Consultant, Auditor, assistant and other financial supporting services.

Course

S.No Code Course Name Course Outcome

Remembering the Basic Accounting concepts and conventions and understanding the Accounting Standards
Preparing Financial Statements in accordance with appropriate standards and BRS from incomplete statement

Apply the accounting practices for Bill of exchange and Account current

Analyse the accounting treatment in preparation of consignment and joint venture accounts

Fundamentals of Accounting-I sheet for Non- Profit Organisation.
Gaining Knowledge in preparation of Receipts and Payments, Income and Expenditure account and Balance

1 21BCP101

Gain knowledge about the basic principles and functions of management.

		Develop plans with relevant people to achieve the project goals, determine the delegation of authorities
		Obtain the applicability of the concept of organizational dimension
		Demonstrate with various theories regarding directing and decision making in organization
2	21BCP102 Principles of Management	Understand tools and techniques to be used in performance of managerial job.
		To Create funds for replacement of Assets
		Preparing Accounts from incomplete records
		Introducing the system of Hire Purchasing and Installment
3	21BCP201 Fundamentals of Accounting-II	Familiarizing the concept of Branch account and its system and departmental Accounting system
		Gaining knowledge about International Financial Reporting Standard and International Accounting Standards
		Remembering provisions relating to the Indian contract act 1872
		Analyse the conditions for performance of the contract and breach of contract
		Familiarizing Special Contracts
		Apply various provisions regarding the Sale of Goods Act 1930
4	21BCP202 Business Law	Understanding the concept Limited Liability Partnership Act, 2008
		Understanding the concept of partnership and Admission of partner and calculating the Ratios.
		Preparing financial accounts for partnership firms in case of retirement and death.

		Employing critical thinking skills to understand the difference between the dissolution of the firm at dissolution
		Gaining knowledge in preparing the financial accounts for Insolvency Accounts
5	19BCP301	Advanced Accountancy
		Familiarizing the concept of Voyage Account.
		Understanding the formation and kinds of companies.
		To acquire knowledge on documents of the company
		Acquiring knowledge on basic documents in a company and various methods of raising of capital.
6	19BCP302	Company Law and Secretarial Practice
		Examining the provisions of Companies Act relating to meetings, resolutions and Company Management
		To learn about law relating to winding Up of the company
		Understanding and explain the conceptual framework of banking
		Classifying and Demonstrate the types of Accounts, deposit and describing the role of RBI.
		Acquiring knowledge on Negotiable instruments
		Illustrating the various electronic payment methods
7	19BCP303	Practical Banking
		Giving Hands on training relating to Banking
		Understanding the roles of managers in firms
		Analyzing the demand and supply conditions and assess the position of a company
		Familiarizing the concept about production and law of variable proportions

	General	Gaining knowledge about market condition and monopolistic competition
8	19BCP304 Economics	Analyze real-world business problems with a systematic theoretical framework.
		Understanding of marketing terminology and concepts
		Demonstrate knowledge of key business communication strategies within the marketing field
		Identifying the different promotional methods
	Principles of	Understanding the concept of Market segmentation and Buyer Behaviour
9	19BCPSB1 Marketing	Demonstrate knowledge in recent trends in marketing
		Acquire the conceptual knowledge on issue of shares
		Explaining Redemption of preference shares and issues of debentures
		Familiarizing with underwriting of shares and valuation of goodwill
	Corporate	Have a comprehensive knowledge about the latest provisions of the Companies Act.
10	19BCP401 Accounting-I	Describing Liquidators final statement and deficiency account
		Explaining the basic concept of cost and how costs are presented in financial statements
		Demonstrate how material costs are added at each stage of the production cycle.
		Demonstrate how labor and overhead costs are added to a product at each stage of the production cycle.
		Gaining knowledge in Process costing, Job costing and Batch costing.

11 19BCP402	Cost Accounting	Understanding the basic concept of operating costing and contract costing.
		Understanding the basic auditing principles, concepts, planning an audit and due diligence. Illustrating the steps required to perform Internal control and Internal check, Vouching and Verification and Valuation of Assets and Liabilities.
		Illustrating the steps required to perform of Valuation of Assets and Liabilities.
		Gaining knowledge in Audit of joint stock companies and professional ethics of an auditor.
12 19BCP403	Practical Auditing	Giving Hands on training relating to Auditing.
		Acquiring the conceptual knowledge in Factories Act
		Explaining payment of wages Act and legal provisions
		Familiarizing with payment of bonus act and provisions for new companies
		Have a comprehensive knowledge about the latest EPF and ESI and provisions
13 19BCP404	Industrial and Labour Laws	Describing Workers compensation act and liability for compensation
		Acquiring the conceptual knowledge on Financial Markets
		Explaining market for corporate securities
		Familiarizing with the concept secondary market and the role of SEBI
	Management of Financial Markets and services	Have a comprehensive knowledge about the latest Mutual funds and SEBI Guidelines
14 19BCPSB3		Describing New modes of Financing and CRISIL.

		To introduce and develop knowledge of holding companies accounts
		To understand the concept of Inflation accounting
		To enable the students to learn the concepts of Electricity Company Accounts
		To make them aware about accounts of banking companies
15	19BCP501	Corporate Accounting-II
		Keep them aware about accounts of insurance companies
		The students are able to learn the fundamentals of strategic management using the case method
		Analyze the Environmental factors in strategic management using in case method
		Understand the corporate strategies and the frame work of strategic management .
		Understand the organizational strategies and how to implement the strategy.
16	19BCP502	Strategic Management
		The students are able to understand and manage the technology and innovation in strategic management
		Best knowledge about the environment that impact the business decision
		Awareness about important concept and terminology used in business
		Understand the value and Do's and Don'ts of Ethics in business environment
		Better understand the concepts that used in international perspective
17	19BCP503	Business Ethics and Corporate Social Responsibility
		Understand the role and functions of regulatory agencies
		Examine the basic concepts of schedule of rates of tax, tax liability, penalties and prosecution and the total taxable income of an assessee.

		Understanding the Income from salary and Income from House Property.
		Apply and practice the computation of total income from business or profession.
		Apply and practice the computation of income capital gains.
18	19BCP504 Taxation-I	Apply and practice the computation of set off.
		Understand the basic framework of research process
		To formulate the hypothesis for business problems ,know the scaling techniques
		Understand the sampling techniques, preparation of questionnaire and coding techniques
		Apply various parametric tests to test hypothesis
	Research	
19	19BCP505 Methodology	Develop necessary critical thinking skills in order to formulate the report writing
		Understand the basic concepts of Entrepreneurship
		To Understand the start up process of entrepreneurship
		Awareness about the financial institution in rendering financial services
		To understand the concept of Incentives and subsidies
	Entrepreneurial	
20	19BCPE01 Development	Awareness about schemes that available for retrieving sick industry
		To learn the Importance of corporate governance and to know the concept of Macro Issues and Micro Issues
		To develop corporateGovernance System Worldwide

		To imbibe the ethical issues in company audit
		To know the concept of New Companies Bill and Companies Act 2013
21	19BCPE02	Corporate Governance
		Awareness about Governance and its trends
		To Understand principles of Branding
		To understand brand ambassadors and brand image building
		To Learn Elements and components of brands, brand equity
		To Acquire Knowledge on new product Development
22	19BCPE03	Brand Management
		Awareness on brand strategies
		Acquire knowledge on Management Accounting and financial statement
		To know the concept of Analysis and interpretation of financial statement and Ratio analysis
		To Learn Concepts of working capital
		To Acquire Knowledge on marginal costing and break even analysis
23	19BCP601	Management Accounting
		Awareness on Budgeting and budgetary control
		To Understand concept of investment
		To Understand the concept of risk and return management
		To Learn Concepts of security analysis

	Investment	To Acquire Knowledge about stock market analysis
24 19BCP602	Management	Awareness on portfolio management
		Understand the basic Indirect Tax.
		To learn about Goods and Services Tax Introduction
		Understand the basic concept of Levy and collection under TNGST/CGST
		To Know the concept of Levy and collection under the integrated goods and service
25 19BCP603	Indirect Taxation	To know the introduction of customs laws in India
		Understand the basic framework of financial management
		To acquire knowledge on Sources of Long term funds
		Understand the concept of lease financing
		To know about the capital budgeting
26 19BCPE04	Financial Management	To learn about Management of Retained Earnings
		Identify the key themes in micro finance
		Explain the role of financial officer how to generate income
		To learn Credit Delivery Methodology
		Explain and analyze the Pricing of Microfinance products

27	19BCPE05	Micro Finance	To understand the concept of Commercial Microfinance
			Understand fundamental supply chain management concepts.
			Apply knowledge to evaluate and manage an effective supply chain
			Understand the foundational role on strategic alliances.
		Supply Chain	To learn about Procurement and Outsourcing
28	19BCPE06	Management	To create awareness on Dimension of customer Value
			Develop a meaningful understanding of HRM theory, functions and practices
			Apply Human Resource Planning, Recruitment and Selection and skills across various types of organizations
			Know about the Interview process, Induction and Orientation, Training techniques
		Human Resource	Develop understanding on performance appraisal and its methods
29	19BCPE07	Management	Educate on the process of handling disputes, laws pertaining to Employees welfare and employment in the Organization
			Acquiring the conceptual knowledge in business environment
			Explaining the Industrial Policies and Regulations
			Familiarizing with Economic Systems and Capitalism
			Have a comprehensive knowledge about Technological environment
30	19BCPE08	Business Environment	Describing Globalisation and Foreign Direct Investment, Multinational Corporation.

Acquiring the conceptual knowledge in Material Management

Explaining Purchasing Management and Price determination

Familiarizing with the concept of Inventory Management

Have a comprehensive knowledge about store management

Materials

31 19BCPE09 Management

To know the Classification and Codification of Materials

B.Sc (Computer Science)

The area is set to promote and showcase general communication and creativity skills with the learning potential of students

Students should be able to obtain LSRW Skills and help to explore knowledge in various genres.

Realize their responsibility towards the society center through ethical, social and human values

Students should be able to know the facets of environment and society which assist them to hold the value of life.

An ability to design a system, component or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, healthy and safety, manufacturability and

To possess knowledge to identify, analyze, design for an optimized solution using appropriate algorithms of varying complexity using cutting edge technologies.

To develop skills in software and hardware maintenance so as to enable the students to establish a productive career in industry, research and academia.

Equip the students to meet the industrial needs by utilizing tools and technologies with the skills to communicate effectively among peers.

An ability to acquire required programming skills, formulate and solve practical problems.

Foundation graduate programme which induces continuous improvement of knowledge and act as

PROGRAMME OUTCOME (PO): platform for higher studies and engage in research.

Demonstrate understanding of the principles and working of the hardware and software aspects of computer systems

Design, implements, test, and evaluate a computer system, component, or algorithm to meet desired need and to solve a computational problem.

Apply problem-solving and technical skills to analyze complex problems and propose feasible computer solutions using fundamental principles of mathematics and computing sciences.

Develop front end and back end way approach for real time applications.

To Enhance skills and adapt new computing technologies for attaining professional excellence and carryir research

PROGRAMME SPECIFIC
OUTCOME (PSO):

Course

S.No	Code	Course Name	Course Outcome
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CO1:Understand different Number systems, Codes, Relational Algebra and Logic Gates

CO2: Simplify the Boolean functions to the minimum number of literals

CO3:Develop conditional and iterative statements to write C programs

Core 1- Digital Principles and

CO4:Exercise user defined functions to solve real time problems

1	21BSC101	C Programming	CO5:Inscribe C programs that use Pointers to access arrays, strings and functions
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CO1:Understand basic Structure of the C-Programming, declaration and usage of variable

CO2:Write C programs using operators

Core Lab I – Digital

CO3: Exercise conditional and iterative statements to write C programs

Principles and

CO4:Write C programs using Pointers to access arrays, strings and functions

C Programming

CO5:To write C programs using pointers and allocate memory using dynamic memory management functions

2	21BSCP01	lab	
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		CO1:Understand the relative merits of C++ as an object oriented programming language
		CO2:Ability to understand C++ programming structures and function
		CO3:Understanding the advanced use of arrays in C++ programming
	Core 2 : Object Oriented Programming	CO4: Understand how to apply the major object-oriented concepts to implement object oriented programs : C++, encapsulation, inheritance and polymorphism
3	21BSC201 with C++	CO5:Understand advanced features of C++ specifically stream I/O, templates CO1:Describe the procedural and object oriented paradigm with concepts of streams, classes, functions, dat and objects.
		CO2:Understand dynamic memory management techniques using pointers, constructors, destructors, etc., CO3: Describe the concept of function overloading, operator overloading, virtual functions an polymorphism.
	Core Lab 2 – Object Oriented Programming	CO4:Classify inheritance with the understanding of early and late binding, usage of exception handling, an generic programming.
4	21BSCP02 with C++ Lab	CO5:Demonstrate the use of various OOPs concepts with the help of programs.
		CO1:Understand the basics of data structures.
		CO2: Ability to analyze importance of stacks and queues.
		CO3:Analyze basic protocols of IoT.
	Core 3: Data Structures and Algorithm	CO4: Understand the critiques of trees and graphs.
5	19BSC301	CO5: Acquire ideas about searching and sorting CO1:Identifyclasses, objects, members of a class and relationships among them needed for a specifi problem

CO2:Use an integrated development environment to write, compile, run, and test simple object-oriented Java programs.

CO3:Demonstrate the concepts of polymorphism and inheritance

CO4:Identify and fix defects and common security issues in code

CO5:Identify classes, objects, members of a class and relationships among them needed for a specific problem

Core 4: Java
Programming

6 19BSC302

CO1:Visualize layered approach to networking and understand various application layer protocols

CO2:Understand transport layer concepts, protocols & services.

CO3:Demonstrate the basic understanding of network layer, routing principles,IPv6.

CO4:Able to develop fundamental understanding of Link layer,multiple access protocol, addresses & ARI
CSMA / CD, PPP details

CO5:Describe basic concepts and algorithms of cryptography including Hash functions , digital signatures
SSL, SET & IPSec

Core 5 :
Computer
Networks

7 19BSC303

CO1:Use the object oriented concepts of java for the given problem.

CO2:Understand the enabling technologies for building internet applications.

CO3:Design Java programming using the features of the networking and remote method development
Construct a internet application.

Core Lab 3:
Java
Programming

CO4: Implement packages, access specifiers and interfaces in a program

CO5:Write JAVA programs to demonstrate method overloading

Lab

8 19BSCP03

CO1: Developed understanding of technical aspect of Multimedia Systems.

CO2: Understand various file formats for audio, video and text media

		CO3: Develop various Multimedia Systems applicable in real time.
	SBC I Multimedia	CO4: Design interactive multimedia software.
9	19BSCSB1 Lab	CO5: Apply various networking protocols for multimedia applications.
		CO1: Describe the Numbers, Math functions, Strings, List, Tuples and Dictionaries in Python
		CO2: Express different Decision Making statements and Functions
		CO3: Interpret Object oriented programming in Python
		CO4: Understand and summarize different File handling operations
10	19BSCSB2 Lab	CO5: Explain how to design GUI Applications in Python and evaluate different database operations
	SBC I Python	CO1: Know about Barriers of communication
		CO2: Getting ideas about report writing
		CO3: Preparing agenda and meeting minutes
		CO4: Know the MS Office basics
11	15BSCED1	CO5: Know the Tally basics
	Business Communication	CO1: Use the techniques, components and tools of a typical database management system.
		CO2: Design a correct, new database information system for a business functional area and implement the design in either SQL or NoSQL
		CO3: Understand the concepts of open source databases like MongoDB and MySQL.

	Core 6 : Data Base Management	CO4:Know the concepts of SQL, PL/SQL, Triggers , cursors and Normalization
12 19BSC401	System	CO5:Understand, appreciate and effectively explain the underlying concepts of database technologies
		CO1:Create a PHP web page that is unique to each visitor
		CO2:Customise the theme for a WordPress site
		CO3:Perform various MySQL database queries
		CO4:Seek solutions to any PHP problems and further your knowledge.
13 19BSC402	Core 7: PHP Programming	CO5 :Use PHP-driven dynamic content in HTML5 animations
		CO1:Describe process management and concepts of threading, multitasking,IPC.
		CO2:Differentiation of various scheduling algorithms and identify the reasons of deadlock and their remedial measures in an operating system
		CO3:Describe various memory management techniques
	Core 8: Operating Systems	CO4:Understand representation of file system interface.
14 19BSC403		CO5:Analyze of disk scheduling algorithms for efficient utilization.
		CO1:Design, develop and host a userfriendly website.
		CO2:Knowthe usage of APIs
	Core Lab 4:PHP	CO3:Layout management in line with current trend.
		CO4:Use fundamental skills to maintain web server services required to host a website.

15	19BSCP04	Programming Lab	CO5:Select and apply markup languages for processing, identifying, and presenting of information in we pages. CO 1:Understanding the basic set of commands and utilities in Linux systems. CO 2: Learn to develop software for Linux systems. CO 3: Learn the important Linux library functions and system calls. CO 4: Understand the inner workings of LINUX-like operating systems.
16	19BSCSB3	SBC II : Linux Lab	CO 5:Obtain a foundation for an advanced course in operating systems. CO1: Develop SQL Queries Using Embedding Operators - Write and read (understand) SQL queries using sub queries embedded using embedding operators (IN, NOT IN, EXISTS, NOT EXISTS, ALL, ANY, CO2: Design SQL Queries with GROUP BY - Write and read (understand) SQL queries using the GROUP BY clause. CO3: Develop Simple SQL Queries With HAVING - Write and read (understand) SQL queries using the GROUP BY and HAVING clauses. CO4: Implement HAVING Clause - Translate an SQL query using the GROUP BY and HAVING clause: into an equivalent query without the HAVING clause.
17	19BSCSB4	SBC II : Oracle Lab	CO5: Develop PL/SQL Programs CO1:Understand the different process models and project management concepts CO2:Develop skills for cost estimation for software development and understand the software risks. CO3:Enhance teamwork ability in project scheduling and apply the concepts of software quality assurance
18	19BSC501	Core 9: Software Engineering	CO4:Ablility to relate and outline system engineering and product engineering process. CO5 : Design requirement mapping strategies for development of software.

		CO1:Create user interactive web pages using ASP.Net.
		CO2:Able to create simple webapplications and window applications
		CO3:Performing Database operations for Windows Form and web applications
		CO4:Develop Assemblies and Deployment in .NET, Mobile Application Development
19	19BSC502	Core 10: .Net Programming
		CO5:Understand and be able to explain Security in the .NET framework and Deployment in the .NET.
		CO1:Demonstrate a basic understanding of computer hardware and software.
		CO2:Demonstrate problem-solving skills
		CO3:Utilize web technologies.
		CO4:Present conclusions effectively, orally, and in writing
20	19BSC503	Core 11: PC Hardware
		CO5 :Demonstrate basic understanding of network principles
		CO1:Have a basic understanding of the core concepts of computer graphics
		CO2:Be capable of using OpenGL to create interactive computer graphics.
		CO3:Understand a typical graphics pipeline.
		CO4:Have made pictures with their computer
21	19BSC504	Core 12: Computer Graphics
		CO5 : To make the students familiar with techniques of clipping, three dimensional graphics and three dimensional transformations.
		CO1:Create user interactive web pages using ASP.Net.

		CO2:The students able to create simple webapplications and window applications
		CO3:Performing Database operations for Windows Form and web applications
	Core Lab 5:	
	.Net	CO4:Develop Assemblies and Deployment in .NET, Mobile Application Development
	Programming	
22	19BSCP05 Lab	CO5:Understand and be able to explain Security in the .NET framework and Deployment in the .NET.
		CO1: Implement various applications using build systems
		CO2: Understand the installation of various packages in open source operating systems
		CO3: Able to recognize the benefits and features of Open Source Technology.
	Elective I:	
	Open Source	CO4: Interpret, Contrast and compare open source products among themselves
23	19BSCE01 Technologies	CO5: Understand and demonstrate Version Control System along with its commands
		CO1 : Understand SIC architecture, features of utility software's such as assemblers, loaders, linkers editors and macro processor.
		CO2 : Design simple assembler for Simple instruction computer.
		CO3 : Analyze linker and loaders for simple instruction computer.
	Elective I:	
	System	CO4 : Design elementary macro processor for simple assembly level language.
24	19BSCE02 Software	CO5: Understand the importance of application software and system software
		CO1 : Specify, analyze and design the use case driven requirements for a particular system.
		CO2 : Model the event driven state of object and transform them into implementation specific layouts.

25 19BSCE03	Elective I: Unified Modeling Language	<p>CO3 : Identify, Analyze the subsystems, various components and collaborate them interchangeably.</p> <p>CO4: Create and analyze activity and state diagrams.</p> <p>CO5 : Present the transition from business events to use cases.</p>
		<p>CO1:Learn the Internet Programming using Java Applets</p> <p>CO2:Make a reusable software component, using Java Bean</p> <p>CO3:Demonstrate the concepts of polymorphism and inheritance</p> <p>CO4:Identify the defects and common security issues in code</p>
26 19BSC601	Core 13: Web Technologies	<p>CO5:Identify classes, objects, members of a class and relationships among them needed for a specific problem</p> <p>CO1: Know the factors driving the need for network security</p> <p>CO2: Identify and classify particular examples of attacks</p> <p>CO3: Understand the terms vulnerability, threat and attack</p>
27 19BSC602	Core 14: Network Security and Cryptography	<p>CO5: Identify physical points of vulnerability in simple networks</p> <p>CO5: Compare and contrast symmetric and asymmetric encryption systems and their vulnerability to attack and explain the characteristics of hybrid systems.</p> <p>CO1:Understand the types of inheritance and use them in programs.</p> <p>CO2:Develop Java application programs using OOP principles and proper program structuring</p> <p>CO3:Implement error handling techniques using exception handling</p>

	Core Lab 6:	
	Web Technologies	CO4:Able to write JAVA programs to demonstrate method overloading
28 19BSCP06	Lab	CO5 :Identify usage of collection framework CO1 :Demonstrate an understanding of the importance of data mining and the principles of business intelligence CO2 :Organize and Prepare the data needed for data mining using pre preprocessing techniques CO3 :Perform exploratory analysis of the data to be used for mining. CO4:Implement the appropriate data mining methods like classification, clustering or Frequent Pattern mining on large data sets.
29 19BSCE04	Elective II: Data Mining	CO5 :Student will be able to understand basic cryptographic algorithms,message and web authentication and security issues. CO1: Analyze and model software specifications. CO2: Understand the object-based views for generic software systems. CO3: Understand the importance of robust software components.
30 19BSCE05	Elective II: Artificial Intelligence	CO4: Apply Artificial Intelligence techniques for problem solving. CO5: Apply optimization to solve the problems. CO1: Identify some of the factors driving the need for network security CO2: Identify and classify particular examples of attacks CO3: Define the terms vulnerability, threat and attack
	Elective II:	CO5: Identify physical points of vulnerability in simple networks

31 19BSCE06	Information Security	CO5: Compare and contrast symmetric and asymmetric encryption systems and their vulnerability to attack and explain the characteristics of hybrid systems.
		CO1: Evaluate the architecture and principles of operation of computer systems and networks.
		CO2: Design and develop software systems for various application domains.
		CO3: Manage the development of software systems through a variety of development processes and methodologies.
32 19BSCE07	Elective III: Mobile Computing	CO4: Synthesize new knowledge in the field of computer science by using different methodologies. CO5: Demonstrate the ability to design a system, component or process as per needs and specifications.
		CO1: Provide students with the fundamentals and essentials of Cloud Computing.
		CO2: Provide students a sound foundation of the Cloud Computing so that they are able to start using and adopting Cloud Computing services and tools in their real life scenarios.
		CO3: Enable students exploring some important cloud computing driven commercial systems and applications.
		CO4: Expose the students to frontier areas of Cloud Computing and information systems, while providing sufficient foundations to enable further study and research.
33 19BSCE08	Elective III: Cloud Computing	CO5: Express/present ideas in an impressive and professional manner
		CO1: Assess the vision and introduction of IoT.
		CO2: Understand IoT Market perspective.
		CO3: Implement Data and Knowledge Management and use of Devices in IoT Technology.
34 19BSCE09	Elective III: Internet of Things	CO4: Understand State of the Art - IoT Architecture.
		CO5: Classify Real World IoT Design Constraints, Industrial Automation in IoT.

CO1: Develop plans with relevant people to achieve the project's goals.

CO2: Design a work down structure into tasks and determine handover procedures.

CO3: Identify links, dependencies and schedule to achieve deliverables.

CO4: Estimate required resources to complete a target

CO5: Build Project using latest concepts

Project and
35 19BSCPRI Viva Voce

B.Sc (INFORMATIONTECHNOLOGY)

PROGRAMME OUTCOME (PO):

PO1: The area is set to promote and showcase general communication and creativity skills with the learning potential of students.
PO2: Students should be able to obtain LSRW Skills and help to explore knowledge in various genres.
PO3: Realize their responsibility towards the society center through ethical, social and human values
PO4: Students should be able to know the facets of environment and society which assist them to hold the values of life.
PO5: An ability to design a system, component or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, healthy and safety, manufacturability and sustainability .
PO6: Attain the core value in their respective area to meet out the global competitive edge.
PO7: Applyand update their skills towards their employability, entrepreneurshipand its sustainability.
PO8: Realize their responsibility towards the society centre through ethical, social and human values.
PO9: Recognize the opportunities towards their up gradation and professional development in all spheres.
PO10: Ensurethe quality in terms of all the aspects by the way of their contribution in work atmosphere.

PROGRAMME SPECIFIC
OUTCOME (PSO):

PSO1: Understand the field of Information Technology, to provide holistic knowledge about Software
PSO2: Analyze the relationship among storing, processing, securing, and managing information.
PSO3: Acquire the knowledge in the various fields of Information Technology including Networks, Testing, Information Security, Databases, and Programming
PSO4.: Comprehend the professional ethics in any science subject to help in the developmen of interdisciplinary approach for sustainable evelopment
PSO5: B.Sc IT graduates are hired as Programmer, Database Administrator, IT Specialists, Technology Engineer, and Web Designer.

COURSE COURSE
S.NO CODE NAME

COURSE OUTCOME

CO1:Understand the fundamentals of C programming.

CO2:Choose the decision making statements, loops and arrays to solve the problem.

CO3:Use functions to solve the given problem.

CO4:Allocate dynamic memory using pointers.

CO5:Apply the structures, unions and files Operations in a specific need.

CO 1: Read, understand and trace the execution of the program written in C language

CO 2: Write the C code for the given algorithm

CO 3: Develop C programs involving function

CO 4:Develop C programs involving functions, recursion, pointers, and structures

CO 5: Design applications using file concepts

1 21BIT101 Core 1 –
Programming
in C

2 21BITP01 Core Lab 1 -
C Lab

		CO1:Describe the procedural and object oriented paradigm with concepts of streams, data types and operators.
		CO2:Describe decision making by branching and looping statements, functions and arrays.
		CO3:Understand dynamic memory management techniques Using pointers, constructors, destructors, etc
	Core 2 -	CO4:Classify inheritance with the understanding of Inheritance, early and late binding, usage of virtual functions and Polymorphism.
	Object Oriented	CO5:Demonstrate the use of various OOPs concepts with the help of exception handling, templates and file operations.
3	21BIT201	Programming with C++
		CO1:Master using key structured programming constructs: declarations, sequence, selection, repetition evaluating expressions.
		CO2: Be familiar with C++classes.
		CO3: Master Constructors, Operator overloading and Polymorphism concepts.
	Core Lab - 2 –	CO4:Be familiar with using String handling functions.
	Object Oriented	CO5:Be familiar with using C++ functions and the concepts related to good modular design.
4	21BITP02	Programming with C++
		CO1:Write, compile, and execute Java programs that may include basic data types and control flow constructs using J2SE or other Integrated Development Environments (IDEs) such as Eclipse, NetBeans,
		CO2:Write, compile and execute Java programs using object oriented class structures with parameters constructors, and utility and calculations methods, including inheritance, test classes and exception handling
		CO3:Write, compile, and execute Java programs using arrays and recursion.
		CO4:Write, compile, and execute Java programs manipulating Strings and text documents.
	Core 3 – Java	CO5:Write, compile, execute Java programs that include GUIs and event driven programming.
5	19BIT301	Programming
		CO 1.Select appropriate data structures as applied to specified problem definition.

		CO 2.Implement operations like searching, insertion, and deletion, traversing mechanism etc. on various data structures.
		CO 3.Students will be able to implement Linear and Non-Linear data structures.
		CO 4.Implement appropriate sorting/searching technique for given problem.
6	19BIT302	Core 4 - Data Structures CO 5.Determine and analyze the complexity of given Algorithms.
		CO 1.Describe basic organization of computer and the architecture of 8086 microprocessor.
		CO 2. Implement assembly language program for given task for 8086 microprocessor.
		CO 3.Demonstrate control unit operations and conceptualize instruction level parallelism.
7	19BIT303	Core 5 - Computer Organization & Architecture CO 4.Categorize memory organization and explain the function of each element of a memory hierarchy. CO 5..Identify and compare different methods for computer I/O mechanisms.
		CO 1:Know about new ideas and advances, techniques, and tools and to use them effectively
		CO 2:Implement Object Oriented Programming Concepts
		CO 3:Use and create packages and interfaces in a Java program
		CO 4:Use graphical user interface in Java programs
8	19BITP03	Core Lab 3 – Java Programming Lab CO 5:Create Applets and implementing exception handling and multithreading concepts. CO1:Understand the principles of creating an effective web page, including an in-depth consideration of information architecture.
		CO2:Develop skills in analyzing the usability of a web site.

		CO3:Learn the language of the web: HTML and CSS.
9	19BITSB1	SBC I - Web Design
		CO4:Ability to create web pages of their own skill.
		CO1: Develop skills to perform documentation
		CO2:· Ability to perform accounting operations
		SBC II - Office Automation
10	19BITSB2	CO3:Helps to perform presentation skills
		CO4:Ability to create a database
		CO1:Develop the knowledge of network management and the network management architecture
		CO 2.Understand the concepts of CORBA, RMI and .Net technologies
		CO 3.Apply the components of C# .Net technology to given applications
		CO 4.Classify the architecture of CORBA and mapping the CORBA with existing Programming language like Java.
11	19BIT401	Middleware Technologies
		CO 5.Implement integration of component based architectures with Enterprise applications
		CO 1.Describe the functions of each layer in OSI and TCP/IP model.
		CO 2.Explain the functions of Application layer and Presentation layer paradigms and Protocols.
		CO 3.Describe the Session layer design issues
		CO 4.Identify the various computer network protocol design models and the usage of various types of transmission media and working of LAN technology
12	19BIT402	Computer Networks
		CO 5.Familiarize the various wireless LAN concepts and the design of adhoc wireless network

		CO 1:Able to describe process management and concepts of threading, multitasking,IPC.
		CO 2:Able to differentiation of various scheduling algorithms and identify the reasons of deadlock and the remedial measures in an operating system.
		CO 3:Able to describe various memory management techniques.
		CO 4:Able to Analyze of disk scheduling algorithms for efficient utilization.
13	19BIT403	Operating System
		CO 5:Able to apply the concepts of operating system to study Linux.
		CO 1:learn the Internet Programming, using Java Applets
		CO 2:apply event handling on AWT and Swing components.
		CO 3:learn to access database through Java programs, using Java Data Base Connectivity (JDBC)
		CO 4:create dynamic web pages, using Servlets and JSP.
14	19BITP04	Middleware technologies lab
		CO 5:invoke the remote methods in an application using Remote Method Invocation (RMI) and understand the multi-tier architecture of web-based enterprise applications using Enterprise JavaBeans (EJB).
		CO 1:Understand the principles of creating an effective web page, including an in-depth consideration of information architecture.
		CO 2:Develop skills in analyzing the usability of a web site.
15	19BITSB3	SBC II Lab – Web Design Lab
		CO 3:Learn the language of the web: HTML and CSS.
		CO 4:Be able to embed social media content into web pages.
		CO1:Helps in preparing documents in MS.Word and various alignment procedure
		CO2:Demonstrate the creation of tables and charts and various other functions in Ms.Excel

	SBC II Lab – Office Automation	CO3:To Design the slides and charts in MS.Powerpoint
16	19BITSB4 Lab	CO4:Helps to create different database in Ms access CO1 : Understand the concepts of microcomputer and microprocessors and internal architecture of 808: microprocessor. CO2: Write and implement efficient structured assembly language programs to solve the problems usin 8085 microprocessor. CO3:Understand the concepts of 8085 microprocessor interrupts
17	19BITED1 Microprocessor and its applications	CO4: Write and implement programs to interface the 8085Microprocessor with Analog and Digital devices. CO5: Understand motherboard circuitry and programmable peripheral devices such as RS232C, DMA controller. CO 1:Upon successful course completion the concepts of.NET framework CO 2:The students able to create simple webapplications and window applications CO 3: Able to connect database using ADO.NET in C#.NET CO 4:To develop Assemblies and Deployment in .NET, Mobile Application Development
18	19BIT501 Core 9 - . Net Framework	CO 5:To understand and be able to explain Exception handling and Threads CO 1:Evaluate the architecture and principles of operation of computer systems and networks. CO 2:Design and develop software systems for various application domains. CO 3:Manage the development of software systems through a variety of development processes an methodologies. CO 4:Synthesize new knowledge in the field of computer science by using appropriate research methodologies.
	Core 10 –	

19	19BIT502 Mobile Computing	<p>CO 5 :Demonstrate the ability to design a system, component or process as per needs and specifications.</p> <p>CO 1:Able to understand the different process models and project management concepts</p> <p>CO 2:Able to develop skills for cost estimation for software development and understand the software risks.</p> <p>CO 3:Able to enhance teamwork ability in project scheduling and apply the concepts of software quality assurance</p>
20	19BIT503 Core 11 – Software Engineering	<p>CO 4:Able to relate and outline system engineering and product engineering process.</p> <p>CO 5 : Able to apply requirement mapping strategies for development of software.</p> <p>CO 1: Understand, appreciate and effectively explain the underlying concepts of database technologies</p> <p>CO 2:Design and implement a database schema for a given problem-domain</p> <p>CO 3:Populate and query a database using SQL DML/DDL commands</p>
21	19BIT504 Core 12 – RDBMS	<p>CO 4: Declare and enforce integrity constraints on a database using a state-of-the-art RDBMS</p> <p>CO 5:To Know the concepts of SQL, PL/SQL, Triggers , cursors and Normalization</p> <p>CO 1: Able to understand the console application creation and its implementation</p> <p>CO 2: Describe how to upload the document file in our own directory</p> <p>CO 3: Demonstrate the basic DML Operations</p>
22	19BITP05 Core Lab 5 - Net Framework Lab	<p>CO 4: Describes how to transact records in database</p> <p>CO 5: Illustrate how to generate a data report</p>

		CO1: Able to understand the application areas of IOT ·
		CO 2: Able to understand building blocks of Internet of Things and characteristics.
		CO 3: Able to realize the revolution of Internet in Mobile Devices, Cloud & Sensor Networks ·
		CO4:To learn the concepts of smart city development in IOT
23	19BITE01	<p>Elective I - IOT</p> <p>CO5: To learn how to analysis the data in IOT</p> <p>CO 1:Able to apply knowledge and awareness of the basic principles and concepts of biology, computer science and mathematics</p> <p>CO 2: existing software effectively to extract information from large databases and to use this information i computer modeling</p>
24	19BITE02	<p>Elective I - Bio – Informatics</p> <p>CO 3: problem-solving skills, including the ability to develop new algorithms and analysis methods</p> <p>CO 4:an understanding of the intersection of life and information sciences, the core of shared concept language and skills the ability to speak the language of structure-function relationships, information theory,</p> <p>CO 5:Students will Create computer programs that facilitate biological data analysis</p>
25	19BITE03	<p>Elective I - Data Mining & Warehousing</p> <p>CO 1 : Describes basic data mining tasks , KDD process and various databases techniques</p> <p>CO 2: Describes why to preprocess the data and the concept of data cleaning, intergration</p> <p>CO 3: Illustrate the social implications of Data Mining</p> <p>CO 4: Able to understand the various classification of algorithms like distance, decision tree based , neuræ network algorithms</p> <p>CO 5: Defines the clustering and association rules followed in data mining</p> <p>CO 1. Understand how server-side programming works on the web.</p>

		CO 2. PHP Basic syntax for variable types and calculations.
		CO 3. Creating conditional structures
	Core 13 - PHP	CO 4.: Storing data in arrays
26	19BIT601	Programming
		CO 5. Using PHP built-in functions and creating custom functions
		CO 1. Understand the basic concepts fo attacks, methods of defence and classification of hackers
		CO 2. Demonstrate the basic cryptographic terms, data encryption standard , fundamentals concepts of DES
		CO 3. Identifies different types of flaws , kinds of malicious code and preventionof virus infection
	Core 14 – Information	CO 4. Able to understand the file protection mechanisms, user authentication
27	19BIT602	Security
		CO 5. Describes the security requirements , ethical issues in computer security
		CO 1.use HTML form elements that work with any server-side language
		CO 2. create a PHP web page that is unique to each visitor
		CO 3.validate user input
		CO 4. create, back up and restore a MySQL database
	Core Lab 6 - PHP Lab	CO 5. perform various MySQL database queries
28	19BITP06	PHP Lab
		CO1. Explain the motivation for big data systems and identify the main sources of Big Data in the rea world.
		CO 2: . Demonstrate an ability to use frameworks like Hadoop, NOSQL to efficiently store retrieve and process Big Data for Analytics.

		CO 3: Implement several Data Intensive tasks using the Map Reduce Paradigm
29	19BITE04	<p>Elective II - Big Data Analytics</p> <p>CO 4 : Apply several newer algorithms for Clustering Classifying and finding associations in Big Data</p> <p>CO 5: Design and implement successful Recommendation engines for enterprises.</p> <p>CO 1 : Understand the AI branches and search process and their algorithms</p> <p>CO 2: Describe various searching techniques</p> <p>CO 3: Understand the knowledge representation issues</p>
30	19BITE05	<p>Elective II - Artificial Intelligence and Expert Systems</p> <p>CO 4: Describes various learning procedures</p> <p>CO 5: helps to deal with hidden variable</p> <p>CO1 : Describe the Numbers, Math unctions, Strings, List, Tuples and Dictionaries in Python</p> <p>CO2: Express different Decision Making statements and Function</p> <p>CO3 : Interpret Object oriented programming in Python</p> <p>CO 4: Understand and summarize different File handling operator</p>
31	19BITE06	<p>Elective II :Python Programming</p> <p>CO 5: Explain how to design GUI Applications in Python and evaluate different database operations</p> <p>CO 1:Have an ability to apply software testing knowledge and engineering methods.</p> <p>CO 2:Have an ability to design and conduct a software test process for a software testing projec.</p> <p>CO 3:Have an ability to understand and identify various software testing problems, and solve these problem by designing and selecting software test models, criteria, strategies, and methods</p>

	Elective III : Software	CO 4:Have an ability to design and conduct various types and levels of software testing for a software project.
32 19BITE07	Testing	CO 5 :Have basic understanding, knowledge of contemporary issues in software testing and test planning.
		CO 1 : Describe Android platform, Architecture and features.
		CO 2 : Design User Interface and develop activity for Android App.
		CO 3: Use Intent , Broadcast receivers and Internet services in Android App.
	Elective III :Mobile Application	CO 4: Design and implement Database Application and Content providers.
33 19BITE08	Development	CO 5 : Discuss various security issues in Android platform
		CO1:To understand the characteristics of different media; understand the representations of different multimedia data;
		CO2:To understand different data formats; be able to take into considerations in multimedia system designs;
		CO3:understand the characteristics of human's visual system; understand the characteristics of human's audio system; be able to take into considerations in multimedia techniques design and implementation;
		CO4: understand different compression principles, compression techniques,multimedia compressic standards.
	Elective III :Multimedia	CO5: To program multimedia data and be able to design and implement media applications;
34 19BITE09		CO1: Identify project goals, constraints, deliverables, performance criteria, control needs, and resource requirements.
		CO2: Identify the requirements for the real world problems
		CO3: Study and enhance software / hardware skills
		CO4: Demonstrate and build the project successfully by hardware requirements coding, emulating an testing

35 19BITPR1 Project and Viva Voce

CO5; Compare and contrast the several existing solutions for application development

Analyze the strategic options for ERP identification and adoption.

Describe the ERP selection process, ERP vendor selection.

Describe the ERP in purchasing perspective

Enterprise Resource

Describe the ERP in sales and Distribution perspective

36 19BITID3 Planning

Identify the important business functions provided by typical business software such as

B.Sc (COMPUTER TECHNOLOGY)

PO1: The area is set to promote and showcase general communication and creativity skills with the learning potential of students.
PO2: Students should be able to obtain LSRW Skills and help to explore knowledge in various genres.
PO3: Realize their responsibility towards the society center through ethical, social and human values
PO4: Students should be able to know the facets of environment and society which assist them to hold the values of life.
PO5: An ability to design a system, component or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, healthy and safety, manufacturability and sustainability .
PO6: Attain the core value in their respective area to meet out the global competitive edge.
PO7: Apply and update their skills towards their employability, entrepreneurship and its sustainability.
PO8: Realize their responsibility towards the society centre through ethical, social and human values.
PO9: Recognize the opportunities towards their up gradation and professional development in all spheres.

PROGRAMME OUTCOME (PO):	PO10: Ensure the quality in terms of all the aspects by the way of their contribution in work atmosphere.
	PSO1: Understand the field of Information Technology, to provide holistic knowledge about Software
	PSO2: Analyze the relationship among storing, processing, securing, and managing information.
PROGRAMME SPECIFIC OUTCOME (PSO):	PSO3: Acquire the knowledge in the various fields of Information Technology including Networks, Testing, Information Security, Databases, and Programming
	PSO4.: Comprehend the professional ethics in any science subject to help in the development of interdisciplinary approach for sustainable development
	PSO5: B.Sc. (CT) graduates have great opportunity to enter the ever expanding software and IT fields as Programmers, Network Administrators a System Analysts.

COURSE S.NO CODE COURSE NAME

COURSE OUTCOME

CO 1: Understand the fundamentals of C programming

CO 2: Choose the decision making statements, loops and arrays to solve the problem

CO 3: Use functions to solve the given problem

CO 4: Allocate dynamic memory using pointers

Core 1 –
Programming

CO 5: Apply the structures, unions and files Operations in a specific need

1 21BCT101 in C

Develop conditional and iterative statements to write C programs

CO 1: Read, understand and trace the execution of the program written in C language

CO 2: Write the C code for the given algorithm

CO 3: Develop C programs involving function

Core Lab 1 -

CO 4: Develop C programs involving functions, recursion, pointers, and structures

2	21BCTP01	Programming in C	CO 5: Design applications using file concepts
			CO1:Describe the procedural and object oriented paradigm with concepts of streams, data types and operators.
			CO2:Describe decision making by branching and looping statements, functions and arrays.
		Core 2 - Object Oriented Programming with C++	CO3:Understand dynamic memory management techniques Using pointers, constructors, destructors, etc CO4:Classify inheritance with the understanding of Inheritance, early and late binding, usage of virtual functions and Polymorphism.
3	21BCT201		CO5:Demonstrate the use of various OOPs concepts with the help of exception handling, templates and file operations. CO1:Master using key structured programming constructs: declarations, sequence, selection, repetition evaluating expressions.
		CORE LAB - 2 - OBJECT ORIENTED PROGRAMMING WITH C++	CO2: Be familiar with C++classes. CO3: Master Constructors, Operator overloading and Polymorphism concepts. CO4:Be familiar with using String handling functions.
4	21BCTP02	C++	CO5:Be familiar with using C++ functions and the concepts related to good modular design. CO1:Write, compile, and execute Java programs that may include basic data types and control flow constructs using J2SE or other Integrated Development Environments (IDEs) such as Eclipse, NetBeans, CO2:Write, compile and execute Java programs using object oriented class structures with parameters constructors, and utility and calculations methods, including inheritance, test classes and exception handling CO3:Write, compile, and execute Java programs using arrays and recursion.
		Core 3 – Java	CO4:Write, compile, and execute Java programs manipulating Strings and text documents.
5	19BCT301	Programming	CO5:Write, compile, execute Java programs that include GUIs and event driven programming.

CO 1. Select appropriate data structures as applied to specified problem definition.
CO 2. Implement operations like searching, insertion, and deletion, traversing mechanism etc. on various data structures.

CO 3. Students will be able to implement Linear and Non-Linear data structures.

CO 4. Implement appropriate sorting/searching technique for given problem.

Core 4 - Data

6 19BCT302 Structures

CO 5. Determine and analyze the complexity of given Algorithms.

CO 1. Describe basic organization of computer and the architecture of 8086 microprocessor.

CO 2. Implement assembly language program for given task for 8086 microprocessor.

CO 3. Demonstrate control unit operations and conceptualize instruction level parallelism.

Core 5 -

Computer
Organization &

7 19BCT303 Architecture

CO 4. Categorize memory organization and explain the function of each element of a memory hierarchy.

CO 5. Identify and compare different methods for computer I/O mechanisms.

CO 1: Know about new ideas and advances, techniques, and tools and to use them effectively

CO 2: Implement Object Oriented Programming Concepts

CO 3: Use and create packages and interfaces in a Java program

Core Lab 3 –
Java
Programming

8 19BCTP03 Lab

CO 4: Use graphical user interface in Java programs

CO 5: Create Applets and implementing exception handling and multithreading concepts.

CO1: Understand the principles of creating an effective web page, including an in-depth consideration of information architecture.

		CO2:Develop skills in analyzing the usability of a web site.
		CO3:Learn the language of the web: HTML and CSS.
9	19BCTSB1	SBC I - Web Design
		CO4:Ability to create web pages of their own skill.
		CO1: Develop skills to perform documentation
		CO2: Ability to perform accounting operations
		CO3:Helps to perform presentation skills
10	19BCTSB2	SBC II - Office Automation #
		CO4:Ability to create a database
		CO 1: Understand, appreciate and effectively explain the underlying concepts of database technologies
		CO 2:Design and implement a database schema for a given problem-domain
		CO 3:Populate and query a database using SQL DML/DDL commands
		CO 4: Declare and enforce integrity constraints on a database using a state-of-the-artRDBMS
11	19BCT401	Core 6 – RDBMS
		CO 5:To Know the concepts of SQL, PL/SQL, Triggers , cursors and Normalization
		CO1 :Able todesign of real time embedded systems using the concepts of RTOS
		CO2 :Able tounderstand Programming in embedded C.
		CO3 :Able toimplement fundamental Programming paradigms of 8051 Microcontroller
		Core 7 –
		CO4:Able tonderstand the architecture and concepts of 8051 Microcontrollers

12	19BCT402 Embedded System	CO5 :Able to understand the various components of embedded system and apply it to real time systems
		CO 1:Able to describe process management and concepts of threading, multitasking,IPC. CO 2:Able to differentiation of various scheduling algorithms and identify the reasons of deadlock and the remedial measures in an operating system.
		CO 3:Able to describe various memory management techniques.
		CO 4:Able to Analyze of disk scheduling algorithms for efficient utilization.
13	19BCT403 Operating System	CO 5:Able to apply the concepts of operating system to study Linux.
		CO1. Apply the basic concepts of Database Systems and Applications.
		CO2. Use the basics of SQL and construct queries using SQL in database creation and interaction.
		CO3. Design a commercial relational database system (Oracle, MySQL) by writing SQL using the system.
		CO4. Analyze and Select storage and recovery techniques of database system.
14	19BCTP04 Core Lab 4 - RDBMS Lab	CO 5:Use PL/SQL to apply triggers and procedures
		CO 1:Understand the principles of creating an effective web page, including an in-depth consideration of information architecture.
		CO 2:Develop skills in analyzing the usability of a web site.
15	19BCTSB3 SBC II Lab – Web Design Lab	CO 3:Learn the language of the web: HTML and CSS.
		CO 4:Be able to embed social media content into web pages.
		CO1:Helps in preparing documents in MS.Word and various alignment procedure

<p>SBC II Lab – Office Automation 16 19BCTSB4 Lab #</p>	<p>CO2:Demonstrate the creation of tables and charts and various other functions in Ms.Excel CO3:To Design the slides and charts in MS.Powerpoint CO4:Helps to create different database in Ms access</p>
<p>Mathematical 17 19BCTED1 Aptitude</p>	<p>CO1: To solve numbers, HCF, LCM, Simplification and decimal fractions CO2: To solve problems in percentage, Profit and loss, ratio, proportion and partnership CO3: To solve chain rule, work and pipes, cisterns. CO4: To solve problems in Time and distance, Trains, Boats and streams CO5: To solve problems on ages, relationship, odd man out series.</p>
<p>Core 9 - . Net 18 19BCT501 Framework</p>	<p>CO 1:Upon successful course completion the concepts of.NET framework CO 2:The students able to create simple webapplications and window applications CO 3: Able to connect database using ADO.NET in C#.NET CO 4:To develop Assemblies and Deployment in .NET, Mobile Application Development CO 5:To understand and be able to explain Exception handling and Threads</p>
	<p>CO 1.Describe the functions of each layer in OSI and TCP/IP model. CO 2.Explain the functions of Application layer and Presentation layer paradigms and Protocols. CO 3.Describe the Session layer design issues</p>

19 19BCT502	Core 10 – Computer Networks	<p>CO 4. Identify the various computer network protocol design models and the usage of various types of transmission media and working of LAN technology</p> <p>CO 5. Familiarize the various wireless LAN concepts and the design of adhoc wireless network</p> <p>CO 1: Able to understand the different process models and project management concepts</p> <p>CO 2: Able to develop skills for cost estimation for software development and understand the software risks.</p> <p>CO 3: Able to enhance teamwork ability in project scheduling and apply the concepts of software quality assurance</p>
20 19BCT503	Core 11 – Software Engineering	<p>CO 4: Able to relate and outline system engineering and product engineering process.</p> <p>CO 5 : Able to apply requirement mapping strategies for development of software.</p> <p>CO 1: Describe, remove, and replace select components of a laptop; upgrade components based on customer needs and perform preventive maintenance and advanced troubleshooting.</p> <p>CO 2: Explain, install, and navigate an operating system; upgrade components based on customer needs and perform preventive maintenance and advanced troubleshooting.</p>
21 19BCT504	Core 12 – PC Hardware	<p>CO 3: Apply good communication skills and professional behavior while working with customers.</p> <p>CO 4: Upgrade security components based on customer needs and perform preventive maintenance and advanced troubleshooting.</p> <p>CO 5: Describe, remove, and replace select components of a printer/scanner; perform preventive maintenance and troubleshooting</p> <p>CO 1: Able to understand the console application creation and its implementation</p> <p>CO 2: Describe how to upload the document file in our own directory</p> <p>CO 3: Demonstrate the basic DML Operations</p>
	Core Lab 5 -	<p>CO 4: Describes how to transact records in database</p>

	Net Framework	
22	19BCTP05 Lab	CO 5: Illustrate how to generate a data report
		CO1: Able to understand the application areas of IOT
		CO 2: Able to understand building blocks of Internet of Things and characteristics.
		CO 3: Able to realize the revolution of Internet in Mobile Devices, Cloud & Sensor Networks
		CO4: To learn the concepts of smart city development in IOT
	Elective I - IOT	CO5: To learn how to analyze the data in IOT
23	19BCTE01	CO 1: Evaluate the architecture and principles of operation of computer systems and networks.
		CO 2: Design and develop software systems for various application domains.
		CO 3: Manage the development of software systems through a variety of development processes and methodologies.
		CO 4: Synthesize new knowledge in the field of computer science by using appropriate research methodologies.
	Elective I - Mobile Computing	CO 5: Demonstrate the ability to design a system, component or process as per needs and specifications.
24	19BCTE02	CO1: Defines the working of cloud computing and their pros and cons
		CO2: Identifies centralising email communications and mapping schedule in projects
		CO3: Explore collaboration of scheduling, planning and event management and contact management
	Elective I - Cloud Computing	CO4: Evaluate the web conference tools and how to create social networks
25	19BCTE03	CO5: Understand the cloud storage and how to explore photo sharing and Describe about groupware

		CO 1. Understand how server-side programming works on the web.	
		CO 2. PHP Basic syntax for variable types and calculations.	
		CO 3. Creating conditional structures	
	Core 13 - PHP	CO 4.: Storing data in arrays	
26	19BCT601	Programming	CO 5. Using PHP built-in functions and creating custom functions
			CO 1. Understand the basic concepts fo attacks, methods of defence and classification of hackers
			CO 2. Demonstrate the basic cryptographic terms, data encryption standard , fundamentals concepts of DES
			CO 3. Identifies different types of flaws , kinds of malicious code and preventionof virus infection
	Core 14 – Information		CO 4. Able to understand the file protection mechanisms, user authentication
27	19BCT602	Security	CO 5. Describes the security requirements , ethical issues in computer security
			CO 1.use HTML form elements that work with any server-side language
			CO 2. create a PHP web page that is unique to each visitor
			CO 3.validate user input
			CO 4. create, back up and restore a MySQL database
	Core Lab 6 -		CO 5. perform various MySQL database queries
28	19BCTP06	PHP Lab	CO1. Explain the motivation for big data systems and identify the main sources of Big Data in the rea world.

		CO 2: . Demonstrate an ability to use frameworks like Hadoop, NOSQL to efficiently store retrieve and process Big Data for Analytics.
		CO 3: Implement several Data Intensive tasks using the Map Reduce Paradigm
	Elective II - Big Data	CO 4 : Apply several newer algorithms for Clustering Classifying and finding associations in Big Data
29	19BCTE04 Analytics	CO 5: Design and implement successful Recommendation engines for enterprises.
		CO 1 : Describes basic data mining tasks , KDD process and various databases techniques
		CO 2: Describes why to preprocess the data and the concept of data cleaning, intergration
		CO 3: Illustrate the social implications of Data Mining
	Elective II - Data Mining and	CO 4: Able to understand the various classification of algorithms like distance, decision tree based , neuræ network algorithms
30	19BCTE05 Warehousing	CO 5: Defines the clustering and association rules followed in data mining
		CO1 : Describe the Numbers, Math unctions, Strings, List, Tuples and Dictionaries in Python
		CO2: Express different Decision Making statements and Function
		CO3 : Interpret Object oriented programming in Python
		CO 4: Understand and summarize different File handling operation
	Elective II :Python	CO 5: Explain how to design GUI Applications in Python and evaluate different database operations
31	19BCTE06 Programming	CO 1:Have an ability to apply software testing knowledge and engineering methods.
		CO 2:Have an ability to design and conduct a software test process for a software testing projec.

		CO 3:Have an ability to understand and identify various software testing problems, and solve these problem by designing and selecting software test models, criteria, strategies, and methods
	Elective III : Software	CO 4:Have an ability to design and conduct various types and levels of software testing for a software project.
32	19BCTE07	Testing
		CO 5 :Have basic understanding, knowledge of contemporary issues in software testing and test planning.
		CO 1:Understand the basics of computer graphics, different graphics systems and applications of computer graphics
		CO 2:Discuss various algorithms for scan conversion and filling of basic objects and their comparative analysis
	Elective III : Computer Graphics & Multimedia	CO 3:Use of geometric transformations on graphics objects and their application in composite form.
33	19BCTE08	CO 4:Extract scene with different clipping methods and its transformation to graphics display device.
		CO 5:Render projected objects to naturalize the scene in 2D view and use of illumination models for this
		CO 1:Evaluate the architecture and principles of operation of computer systems and networks.
		CO 2 : Design User Interface and develop activity for Android App.
	Elective III :Mobile Application development	CO 3: Use Intent , Broadcast receivers and Internet services in Android App.
34	19BCTE09	CO 4: Design and implement Database Application and Content providers.
		CO 5 : Discuss various security issues in Android platform
		CO1: Identify project goals, constraints, deliverables, performance criteria, control needs, and resource requirements.
		CO2: Identify the requirements for the real world problems
		CO3: Study and enhance software / hardware skills

35 19BCTPR1 Project and Viva Voce

CO4: Demonstrate and build the project successfully by hardware requirements coding, emulating and testing

CO5: Compare and contrast the several existing solutions for application development

CO1: Analyze the strategic options for ERP identification and adoption.

CO2: Describe the ERP selection process, ERP vendor selection.

CO3: Describe the ERP in purchasing perspective

CO4: Describe the ERP in sales and Distribution perspective

36 19BCTID3 Enterprise Resource Planning

CO5: Identify the important business functions provided by typical business software such as

B. SC (MATHS)

The area is set to promote and showcase general communication and creativity skills with the learning potential of students.

Students be able to obtain LSRW skills and help to explore knowledge in various genres.

Realize their responsibility towards the society centre through ethical, social and human values. Students should be able to know the factors of environment and society which assists them to hold the value of life.

Empowering the students to acquire relevant knowledge and skills appropriate to professional activities. Ability to analyze a problem, identify and define the computing requirements for pursuing careers in industry. Identify the applications of Mathematics in other disciplines and recognize the opportunities towards their graduation.

Attain the core value in their respective area to meet out the global competitive edge.

Enhancing students' overall development and to equip them with mathematical modeling abilities and problem solving skills.

Ability to pursue advanced studies and research in pure and applied mathematical science.

PROGRAMME OUTCOME (PO): Ensure the quality in terms of all the aspects by the way of their contribution in work atmosphere.

Understanding of the fundamental axioms in mathematics and capability of developing ideas based on them
Inculcate Mathematical Reasoning, logical thinking to analyze complex problems and Real world problems to meet the needs of the society.

Develop the high degree mathematical skills and mathematical thinking capacities to face competitive exams and to get placed in reputed IT companies.

Acquire a holistic professional career

Provide opportunities to gain knowledge in Teaching Methodologies and to create an environment that supports outstanding research.

PROGRAMME SPECIFIC
OUTCOME (PSO):

Course

S.No	Code	Course Name	Course Outcome
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Trigonometric formulas and Understand the concept of Inverse Trigonometric functions

Understand the expansions of trigonometric functions and Inverse Hyperbolic functions.

To analyse the Logarithm of complex quantities and to evaluate summation of series

Core 1:

Trigonometry
and Fourier

Apply Fourier series concepts to solve Odd and Even Functions.

1 21BMA101 Series

Apply Fourier series concepts to solve Half range Fourier series and change of interval
Understand the concepts of curvature and its types, to evaluate total differentiation and to verify Euler's theorem.

Analyse the types of integration.

Remember the Reduction formula and Evaluate the double, triple integral and its application.

Evaluate change of order of integration and change of variables.

Core

2 21BMA102 2:Calculus

Apply the concept of Beta, Gamma functions and analyze its properties to evaluate multiple integrals.
Understand the concepts of random variables, its types, probability distributions and to Analyze Measure of Central Tendency
Apply joint probability mass function, two dimensional distributions, its types Mathematical Expectation and analyze the theorems based on mathematical expectations
Remember moment generating functions, properties, and analyze the uniqueness theorem of Moment Generating Functions, Chebychev's Inequality and Weak Law of Large Numbers.

Allied 1

21BMAA0 :Mathematical

3 1

Statistics-I

Analyze the correlation and regression co-efficient , properties and its types

Apply the concept of Discrete and continuous probability distributions

Understand the concepts of Analytical Geometry of 2D-Polar Co-ordinates

To understand and analyze the concepts of Analytical Geometry 3D- Straight lines

Core 3:

Analytical

Geometry and

Vector

4 21BMA201 Calculus

To apply the concepts and results based on the properties of sphere.

To understand and analyze the concepts of Cone and Cylinder

Apply the concept of Vector Calculus and Integration of vectors.

Understand the concept of Binomial Theorem and its application to the Summation of Series

Understand the concept of Exponential Theorems and its application to the Summation of Series

Analyse the concepts of Logarithmic Series

	Core 4: Classical	Examine the convergence and Divergence of sequences and series.
5	21BMA202 Algebra	Examine the Absolute Convergence , Cauchy's condensation test and Raabe's test To analyze Chi-square, t and F test. Understand the concept of Population and characteristics of Estimators. Understand the concepts of testing of Hypothesis and Likelihood Ratio Test.
	Allied	Analyse the concepts of Method of Estimation and Method of Least Square.
6	21BMAA0 2:Mathematical Statistics-II	Examine the Analysis of Variance. To understand the concept of forces, resultant forces of more than one force acting on a surface To apply the concept of friction, gravity, centre of mass, and centroid To acquire knowledge about the parallogram of forces, Triangle of forces, varignons theorem of moments To find the resultant of coplanar couples equilibrium of couples and the equation to the line of action of th resultant
7	19BMA301 Core 5 :Statics	To understand the concept of equilibrium of strings and to derive the tension at any point To examine the general, particular and complete solution of differtial equations Understand the concept of ordinary differential equations and to evaluate ODE.
	Core 6:Differential Equations and	Understand the concept of partial differential equations and lagrange's method To analyze the types of equations solvable for x,y and p

	Laplace		
8	19BMA302	Transforms	<p>To understand and apply the concept of laplace transforms and inverse laplace transforms</p> <p>To create the formulation of LPP and to evaluate various methods of LPP namely Graphical method, Simplex method and Big-M method</p> <p>To understand and apply the concept of duality</p> <p>To understand and apply the methods of transportation</p>
		SBC I	
9	19BMA301	Operations Research –I	<p>To solve the assignment problems and travelling salesmen problem</p> <p>To analyze the concept of game theory and its methods</p> <p>To understanding the concepts of Fuzzy set theory and its basic operations .</p> <p>To acquire knowledge about Fuzzy systems ,Fuzzy logic ,quantifiers and inference concepts.</p> <p>To understand the concepts of Fuzzy Associate members..</p>
		SBC I:Fuzzy logic and Neural Networks	
10	19BMA302	Neural Networks	<p>To acquire knowledge about covering and compact subsets of a Metric space</p> <p>To apply the back propagation networks to create the perception model.</p> <p>To understand and apply the concepts of kinematics and Laws of Motion</p> <p>To understand the conservation of Linear Momentum and apply the concept of the path of the projectile and its characteristic</p> <p>To understand and apply the principle of central orbit</p> <p>To understand simple harmonic motion and its related geometrical representation</p>
		Core 7	
11	19BMA401	Dynamics	To understand the direct and oblique impact of smooth elastic spheres and its related loss of kinetic energy

		To understand and apply the concepts of Fourier Transform ,Properties and Inverse Fourier Transform. To understand and apply the concepts of Fourier Sine Transform ,Fourier Cosine Transform and its properties. To understand and apply the concept of Z-Transforms of basic functions and few inverse Z Transform methods.
	Core 8: Fourier Transforms, z Transforms and Theory of equations	To know about Theory of equations ,Transformation of equations and formation of equations. To understand symmetric function of roots ,Sum of the powers of the root's of an equation ,Newton' theorem,Reciprocal equation and Honer's Method.
12	19BMA402	
		To formulate and solve decision analysis problems To solve sequencing problems and plan accordingly To acquire knowledge about replacement problems to find the optimal repllacement period
	SBC II: 19BMASB Operations 13 3 Research-II	To construct the network for a project to study the system and to take better decision To apply Queneing theory concepts to take optimal decision To understand and apply the concepts of Mathematical Modeling relating to linear and Noon-linear Grown and Decay Models. To understand the basic terms for the description of the Population Dynamics and Compartment Models. To know about Planetary ,Circular Motion and Motion of Statellites.
	SBC 19BMASB II:Mathematical 14 4 Modeling	To understand and apply the concepts of Mathematical Modeling through difference equations. To understand and apply the concepts of Mathematical Modeling through Graphs and Directed Graphs. Understanding the basic concepts of Accounting,Book-keeping&Trial Balance,Subsidiary books

		To evaluate the accounts of Sole Trader, Errors and Rectification
		Preparation of Bill of Exchange & its Accommodations
		Preparation of consignment and Joint ventures
15	18BMAID1	Fundamentals of Accounting
		Analysis of Bank Reconciliation Statement, Receipts & Payments, Income & Expenditure Account
		To understand different methods of Depreciation
		Knowing the concepts of Single Entry System, Statement of Affairs and conversion
		Understanding the departmental Accounts, Branch Accounts excluding Foreign branches
		To know Hire purchase & Installment system Excluding hire purchase trading account
16	18BMAID4	Advanced Accountancy
		Getting knowledge about Royalties excluding Sub-lease
		Learns the basic web page design with Formatting
		Learns the web page design with more styles
		Learns the user input validation in client side
		Learns the user input validation with runtime inception and expression
17	19BMAED	Basics of Internet
		Learns the advance level of web design with frames.
		To understanding the concepts of Real and Complex number systems
		To acquire knowledge about axioms

		To understand the concepts of point set topology and to apply the Bolzano Weierstrass and Cantor Intersection theorem.
		To acquire knowledge about covering and compact subsets of a Metric space
18	19BMA501	Analysis-I
	Core 9 : Real	To understand the concept of cauchy sequence and complete spaces
		To find the absolute value, argument of complex numbers and transform the functions in complex plane
		To determine the analyticity and differentiability of complex functions
		To analyze the convergence of power series
	Core 10:Complex	To determine the harmonic function and map the functions in complex plane
19	19BMA502	Analysis-I
		To evaluate the integral of complex functions
		To understand the concepts of set theory, mapping, graphs and its related basic properties and lemma
		Understand the basic concepts of Groups
		To illustrate the concept of homomorphism, Automorphism and permutation groups
		Analyze and demonstrate example of rings some special classes of rings and ideal and homomorphism of rings
	Core 11: Modern	
20	19BMA503	Algebra-I
		To analyze the concept of sylow's theorem and direct products
		To gain knowledge about the basic structure of C programming and its concept of operators and expressions
		To acquire knowledge about managing input and output operations and conditional statements
		To understand and apply the looping statements

	Core	Will learn about the concept of arrays, strings and string handling functions
	12:Programmin	
21 19BMA504	g in C	To apply pointer concepts using arrays
		To develop a program to generate Fibonacci Series.
		To develop a program to find roots of Quadratic equation.
		To develop a program to count the lines , words and characters in a paragraph..
	Core	To develop a program to generate Pascal's Triangle.
	13:Programmin	
22 19BMAP01	g in C-Practical	To develop a program to sort a given set of numbers
		To gain knowledge about solar system and spherical trigonometry
		To know about celestial sphere
		To understand the concepts of Dip, Twilight and Geometric Parallax
		To apply refraction tangent and Cassini's formulas
19BMAE0	Elective	
23 1	I:Astronomy-I	To learn Kepler's laws and relation between true eccentric and mean anomalies
		To solve algebraic and transcendental equations
		To find the solution of system of linear algebraic equations
		To understand and apply the concept of finite differences
	Elective I:	To identify the problems in interpolation with equal and unequal intervals and solve it

19BMAE0 24 2	Numerical Methods-I	To analyse the relation between divided differences and forward differences To solve Numbers ,H.C.F ,L.C.M,Simplification and Decimal Fractions . To solve problems in Percentage,Profit and Loss,Ratio and Proportionand Partership. To solve problems in Time and Work ,Surds and indices,Square roots and Cube roots.
19BMAE0 25 3	ElectiveI:Comp etitive Examination Skills -I	To solve problems in Alligation of Mixture,Average ,Area and ODD Man Out Series. To solve problems in alender ,Permutations and Combinations and Problems on Ages. To understand of continuous function and inverse image of a set To examine various continuous function and uniformly continuous functions To examine the knowledge about continuity and monotonic functions
26 19BMA601 II	Core 14: - Real Analysis -	To apply the the differentiability if real finctions and related theorems To acquire knowledge about the finctions of bounded variations To apply the notations definitions and properties of Riemann Stieltjes integral Expand complex functions in Taylor's and Laurent's series To cauchy 's liouville's and morera's theorem to evaluate complex integrals
27 19BMA602	Core 15:Complex Analysis-II	Find the singularities and residues of complex functions Evaluate the definite integrals using cauchy's theorem.

		Understand meromorphic function and use of fundamental theorem of algebra
		To understand the matrix concepts in real life problems
		Verify Cayley's Hamilton theorem for a square matrix
		Understand the concept of vector space , homomorphisms and isomorphisms
	Core 16 :	Explain the concept of dual space , inner product vector space and orthogonal vector space
	Modern	
28	19BMA603 Algebra-II	Illustrate the linear transformation and determine the charecteristic roots and vectors To understand and analyze the concept of mahematical logic and solve the problems for tautology and it implications
		To understand the meaning of graph, types of graphs and trees
		To understand and apply for relations and functions concept and solve various problems
	Core 17	To understand lattices, boolean algebra and boolean functions
	:Discrete	
29	19BMA604 Mathematics	To understand the concept of formal languages, grammer , FSA and apply its concepts
		To gain knowledge about Time,equation of time ,conversion of time ,seasons and caender.
		To know about Annual Parallex and Abberation.
		To understand the concepts of Precession and Nutation.
		To learn about Moon and Eclipses.
19BMAE0	Elective II :	
30 4	Astronomy II	To learn about the Planetary Phenomenon and the Stellar system.

		To analyse the problems in numerical differentiation
		To analyse the problems in numerical integration
		To understand and apply the concepts of difference equations
19BMAE0	Elective II : Numerical	To evaluate Taylor series, Eulers method, Improved, Modified Euler method and RK method of fourth order
31 5	Methods-II	To examine the numerical solution of first order ODE
		To solve Chain Rule, Work and Wags and Pipes and Cisterns .
		To solve problems in Simple interest ,Compound interest ,Growth and depreciation, Shares and debentures.
		To solve problems in Time and Distance ,Trains ,Boats and Streams.
19BMAE0	Elective II :Competitive	To solve problems in Clocks, Area of Plane figure, Volume and Surface area of solid figures.
32 6	Examination Skills –II	To solve problems in Data interpretation and data sufficiency
		To know about Java Evolution and overview of Java Language
		To learn Programming style to write simple Java Program
		To learn Constants, variables and Data types in Java
19BMAE0	Elective III :Basics of Java	To learn operators and Expressions in Java
33 7	Programming	To learn about Decision making and Branching in Java
		To understand the concepts of graph and the basic theorems on graph theory

19BMAE0 Elective III
34 8 :Graph Theory

To learn about the application graph theory in network and other related areas

To understand the concept of tree and their properties

To examine the various isotopes with the help tree concepts

To examine the relationship between algebra and graph and analyze algebraic graph structures

To gain knowledge about the basic structure of C++ programming and its concept of operators and expressions

To acquire knowledge about Functions in C++.

To understand and apply the concepts of Classes , Objects ,Constructors and Destructors .

19BMAE0 Elective III
35 9 :Programming in C++

Will learn about the concept of Operator Overloading ,Inheritance and its types.

To apply Managing Console I/O operations and to know about Streams and Classes.

To develop a program to generate Fibonacci Series.

To develop a program to sort a given set of numbers.

To develop a program to find the largest and smallest number.

To develop a program to find the Area of a Circle, Square and Rectangle using Function Overloading.

36 19BMAP02 Elective III:Programming in C++- Practical

To develop a program to display the Employee Details.

B.Sc (Visual Communication)

PO1 : Tamil - 1 the area is set to promote and showcase general communication and creativity skills with the learning potential of students

PO2 :English - 1 student should be able to obtain LSRW skills and help to explore knowledge in various genres.

PO3 :Realize their responsibility towards the society centre through ethical, social and human values.

PO4 :Students should be able to know the facts of environment and society which assist them to hold the value of life

PO5 :Apply and update their skills towards their employability, entrepreneurship and its sustainability.

PO6 :Realise their responsibility towards the society center through ethical social and human values.

PO7 :Recognize the opportunities towards their up gradation and professional development in all spheres.

PO8 : Ensure the quality in terms of all the aspects by the way of their contribution in work atmosphere.

PO9 :Attain the core value in their respective area to meet out the global competitive edge.

PO10 :To demonstrate and understanding of the history, development and practice of the print media electronic media and the new media.

PROGRAMME OUTCOME (PO): Ensure the quality in terms of all the aspects by the way of their contribution in work atmosphere.

PSO1:Utilizing the skills of writing,editing,photography,graphics,design and interactive media.

PSO2 : Creatively using appropriate visual tools to professionally communicate important and interesting information in a timely manner to the audience.

PSO3 : A better understanding on communication elements and process. Enable the students to handle still,video camera create graphic and web designs.

PSO4 : A better insight on film production and appreciation .Enable the students to produce the media text as their own.

PSO5 : Building upon a solid foundation of visual communication methods and research to expand the quality and effectiveness of their own creative work.

PROGRAMME SPECIFIC
OUTCOME (PSO):

Course

S.No Code Course Name

Course Outcome

Understands the need and importance of Communication

Understands the different Levels of communication

Understands the Fundamentals of design

CoreI:

Introduction to Visual

Understands the Color psychology and color theory

1 21BVC101 Communication Understands the Digital histories and new media technologies

Understands the Basic Drawing using Color, Lights and Shades

Understands various perspective, types of shading

Understands pencil sketching

Core Lab I:
Fine Art

Understands how to use water color, draw live model portrait

2 21BVCP01 Production Understands the Basic of oil painting, and modern art

Understands what are different types of writing in media

Understands what are different Elements of news story

Understands how to write different kind of news stories

Understands how to write for radio industry

IDCI: Writing

3 21BVCA01 for the Media Understands how to write for web industry (News Media)

Understands the Historical development of the press as a media

		Understands the Study of leading newspapers journalists in India since 1947
		Understands the Invention and development of radio as a medium of mass communication
		Understands the Film as medium of mass communication
4	21BVC201	History
		Understands the Development of the new media technologies in India
		Understands how to use designing software and Practical knowledge on Image editing
		Understand the techniques of colour correction and photo manipulation.
		Understands how to design Logo for a company
		Understands how to design print advertisement, Brochure for a company
5	21BVCP02	Design
		Understands how to design Visiting card and letterhead for a company
		Understands the growth of advertising in India
		Understands the kinds of advertising in new media
		Understands the Latest trends in advertising
		Understands the work profile in advertising company or agency
6	21BVCA02	Advertising
		Understand how to conceptualize and create new ideas.
		Understand the importance of various communication theories and models with examples.
		Understand the different Elements of Basic models in communication

To make understand the Role and functions of mass media in society

CoreIII:
Communication

To understand the importance of effect theories in communication

7 19BVC301 Theories To get knowledge about the new media and technological oriented communication theories

Understand the importance of lighting and its type and techniques of aperture photography.

Students are practically trained to capture special effects such as freeze.

Learn to take different types of photography.

Core LabIII:
Digital

Understand the role of depth of field and capture the necessary picture with its types

8 19BVCP03 Photography To capture landscape, silhouette techniques and nature photography

Understand the history of writing and language as a tool of communication

Understand about readability and its techniques along with the practical exercises

Develop ability to differentiate newsarticles and feature article writing.

IDCIII:

Understands about news selection and editorial writing

Creative

9 19BVCID3 Writing They are trained to write news story creatively and review the already published article

Understand the basics of web

Understand about designing the website

They are given exposure about information architecture

		Understanda about HTML coding
10	19BVCSB1	SBCI: Web Designing
		Understand the graphics,audio, video on the web
		Understand the Journalism elements.
		Understand about the importance of Photograhly and Journalism aspects
		Acquire Knoweledge about Journalism and trends in journalism
		Understand about Combination between photography and journalism
11	19BVCSB2	SBCI: Photo Journalism
		Understand about the Authoring and its features
		Understand the basics of internet
		Understand about the importance of search engine, TCT/IP, m-commerce
		Understand about electronic devices used for e-commerce
		They are exposed to different types of e-commerce, data encryption
12	1	19BVCED EDCI: E-Commerce
		They should know about the information technology act, digital signatures, e governance and its features
		Understand the various television and video file format
		Understand about the video productions and its work nature
		Students are able to develop skills in single and multi camera production.
		CoreIV: Television
		They understand about various writing approches for video shoots

	Production	
13	19BVC401	Techniques
		They understand about various lighting techniques for video shoots
		Understand about writing scripts for Radio: Documentary, Radio drama and Interview
		Understand about scripts of Television- Formats, Structure, Page breakdowns, Sitcoms
		Understand the fact film, film treatment, shooting script
		Differentiating the concept of writers script verses shooting script
	Core LabIV:	Understand about feature film: Story,Character,Story treatment, Art of Confrontation, Step outline.
14	19BVCP04	Script Writing
		Dialogue devices
		Understand the concept of CSS: Creating Style Sheet
		Understand the CSS Id and Class
		Learn to Define a Dreamweaver site Using the Welcome screen
		Understand about how web design basics working with thumbnails and wireframes
	SBCII: Web	
16	19BVCSB3	Designing II
		Understand about how to Create a template from an existing layout
		Understand what is Social Media Mix
		Understand what are all Cyber social Tools
		Understand about Blogs, Podcast, and Video in new media context
	EDCII: Mobile	
	19BVCED	Social Media
		Understand how to use social medias' like Facebook as a Marketing Tool
17	2	Marketing
		Understand what is Pinterest

		Understand and communicate the Fundamental rights, Constitutional provisions and freedom of press.
		They know the legal aspect of basic rights, obligations and the knowledge of rights to information.
		They should know the media conglomeration towards commercial and public agenda.
		They know about the importance of laws against official and privacy.
18	19BVC501	Media, Laws and Ethics
		Understand the need of cyber laws related to security concern.
		Understand the history, growth and the development of cinema.
		Know the three stages of production work for the film or a video.
		Know about the elements and the grammar of the films for the production.
		Know the regulations for the film industry and the film association, clubs, film festival etc.,
19	19BVC502	Film Studies
		Understand the art of film making and learn about the legends in the film industry.
		Create animated sequences from the development of the original concept through design to final film or video production.
		Create 2D and 3D characters and environments that reflect the integration of graphic clarity, design principles, performance principles and theoretical constructs.
		Apply skills learned in this class in other areas including motion graphics, stop motion and basic traditional animation.
		Learn and understand the basic concepts in 2D art, 3D Model, VFX , Storyboard Design, Graphic Design.
		2DAnimation and 3D
20	19BVCP05	Modeling
		Web Design and Game Design.
		Emphasis will be on conceptualization, creativity, and visual aesthetics.
		Write short radio script for PSA

		Produce the short Radio production.
		Trained in speech based recording
		Produce live based recoring in the field
21	19BVCP06	Audio Production
		Live based recording live interview
		Making a material of Non linear editing in editing suite
		Create news presentation
		Learn and experience the song shooting
		Learn the techniques of removing chroma key
22	19BVCP07	Video Editing
		Learn VFX and EFX
		Know about the nature, method and scope of psychological understanding.
		Know the process of socialization learning process in the society.
		Experience the group types and dynamics of the communication in the society.
		Experience the dimensions in attitude towards the communication process in social change.
23	19BVCE01	ElectiveI: Social Psychology
		Understand the behavioral aspects of the Psychology.
		Know the integral part of marketing in media.
		Know the process of socialization learning process in the society.

	ElectiveI:	Experience behavioral aspects and communication method towards advertising and promotion.
	Integrated Marketing	Know clear idea about the advertising research.
24 19BVCE02	Communication	Know about the promotion of digital marketing techniques.
		Know about famous cinemas all over the world with best director's ideas.
		Know the forms and theory of film and cinematography and direction.
		Experience different languages of cinemas all over the world.
		Understand the Indian legends films makers and their film crafts.
25 19BVCE03	World Cinema	know about regional languages of India's famous film making legends.
		Understand about origin and development of public relations field.
		Understand the different techniques which adopted by PR agencies.
		Discuss about internet usage in PR field
		Describe about usage of Social Media in PR field.
26 19BVC601	Public Relations	Understand planning and organizing PR activities.
		Know about a brief history of graphic design
		Understand elements of design – Principles of design
		Know about Process of Design – Functions of Design

	Package and Design	Understand the process of creative packaging.
27 19BVCP08	Principles	Understand typography – styles and features Color in design
		Discuss about basics of visual effects.
		Understand different types of visual effects
		Learn effects of season.
	Compositing and Visual	Learn special Effects.
28 19BVCP09	Effects	Understand different types of tools which is used in visual effects.
		Understand culture in all its complex forms.
		Learn about different cultural theories.
		Discuss about cultural movements in different part of country.
	ElectiveII: Cultural	Deal with Media and Culture and Role of Media in Cultural Development.
29 19BVCE04	Studies	Argue about the role of digital cultural in society.
		Give introduction to the event management field.
		Develop mission for Event management.
		Discuss about different types of marketing techniques.
	ElectiveII:	Understand different types of communication process involved in event management.

	Event	
30	19BVCE05 Management	<p>Students are able to learn marketing in organizational environment and socio cultural environment.</p> <p>Understand Theme, Story and Screenplay of Cinematography.</p> <p>Students are able to write film review, film appreciation and film criticism.</p> <p>Learn about Indian cinema history.</p>
	ElectiveII: Film Appreciation and Criticism	Understand major turning points and trends in Cinema.
31	19BVCE06	<p>Understand world cinema</p> <p>Understand basics of political Communication.</p> <p>Learn about relationship between the press and political Power.</p> <p>Understand Indian Democracy and political structure.</p>
	ElectiveIII: Political	Understand the contemporary political environment.
32	19BVCE07 Communication	<p>Learn about new types of social movements.</p> <p>Understand basics of Media managements and its nature.</p> <p>Learn about role of social media in media management.</p> <p>Learn about elements of design and principles of designs.</p>
	ElectiveIII: Media	Understand the role of marketing in Media management.
33	19BVCE08 Management	Learn the role of promo and advertisement in media management.

		Learn about the fundamentals of film production.
		Understand the fundamentals of film distribution.
		Learn about budgeting of films.
	ElectiveIII: Film Distribution	Understand about film perception.
34	19BVCE09	and Marketing Acquire knowledge about different theories regarding films making.
		Learn script writing practices, which is the blue print for movie making
		Creative in expressing their thoughts& ideas
	Project -Short Film and Documentary Production with	Learn production team works in the field as cinematography,screenplay,editing&etc..
35	19BVCPR2	Viva Voce Acquire Practical knowleldge can be inculcated from their system of learning
		Adept to train for the current scenario media industry

B.Sc (COSTUME DESIGN AND FASHION)

The area is set to promote and showcase general communication and creativity skills with the learning potential of students.

Students should be able to obtain LSRW skills and help to explore knowledge in various genres.

Realize their responsibility towards the society centre through ethical, social and human values. Students should be able to know the facts of environment and society which assist them to hold the values of life.

Creating the concepts of designing

Understanding various process in manufacturing of textiles

Analyzing various dressmaking techniques

Remembering the context of professionals in textile industry

Creating the field of fashion

PROGRAMME OUTCOME (PO): Developing team building skills and entrepreneurship skill management

Training the students with technical knowledge in fashion designing

Understanding the manufacturing textiles

Enhancing the creativity in fashion designing

Impart managerial abilities

PROGRAMME SPECIFIC

OUTCOME (PSO):

Course

Develop entrepreneurial skills

S.No

Code

Course Name

Course Outcome

Apply the design and its types and analyze the knowledge of elements of design, principles of design at various types of fashion accessories

Analyze various color theories its charts application and dimensions

Organize the principles of color in garment design and standardized color harmonies

Core 1-
FashionDesigni

Summarize the Factors influencing fashion change and types of fashion designers

1 21BCD101 ng

Role of fashion designers and types of designers in Fashion industry

		Recognizing to draw colour charts
		Emphasis is given on marking quick sketches to identify the human body and clothing
	Core practical	Organize the Elements of Design in garment design
	1-	Organize the Principles of Design in garment design
2	21BCDP01	Evaluate freehand modes of drawing, and techniques in relationship to the human body.
		Conceptualize seams and seam finishes.
		Develop the hems and fullness
		Construct the types of plackets in garment construction
	CorePractical2-	Demonstrate and develop the types of sleeves and binding
3	21BCDP02	Categorize the definitions of collars and pockets, types of collars and pockets
		Conceptualize the definition and types of fullness, facings and bindings in garment construction.
		Summarize the characteristics of a good placket, types of plackets
		Construct the types of plackets in garment construction
	Allied1-	Demonstrate and develop the types of sleeves and yokes
4	21BCDA01	Categorize the definitions of collars and pockets, types of collars and pockets
		Explain the importance of body measurements and understand the length and girth measures i ladies/gentlemen and the preparation of fabric for cutting

5 22BCD201 Core 2 - Principles of Pattern Making

Show the definition, types and methods of pattern making and illustrate the basic bodice and sleeve pattern. Develop the styles created by shifting of blouse darts and explain the standards of a good fit and the solving fitting problems in a blouse.

Outline the pattern alteration and its importance and develop the definition and types of pattern grading and the graded patterns of basic bodice and sleeve

Explain the definitions and purpose of pattern layout and its types and examine the layouts for asymmetric fabric with bold design and one way designs.

Understanding basic patterns

Developing basic patterns

Discussing about Layouts

6 22BCDP03 Core Practical 3 - Principles of Pattern Making

Outline Dart manipulation

Brief on Pattern alteration

Emphasis is given on marking quick sketches to identify the human body and clothing

Evaluate freehand modes of drawing, and techniques in relationship to the human body.

7 22BCDP04 Core Practical 4 - Advanced Fashion Designing

Organize the Elements of Design in garment design

Organize the Principles of Design in garment design

Organize the Principles of Design in garment design

Construct about stitch and seam classification, Know the essential qualities

Examine about lower and upper threading of sewing machines, stitching mechanisms of sewing machines loops and loop spreader, Types of feeding and mechanisms

		Spreading technology of garment industry, marker plan, requirements of marker planning. Utilize the mark efficiency in fabric cutting, Importance of grain line
	Allied 2 - Sewing Operation	Explain the definition and function of fabric cutting, the cutting
8	22BCDA02 System	Various types of pressing in textiles industry and types of sewing threads
		To gain the knowledge on origin of costume and history of Indian costumes and textiles.
		Acquired knowledge on north Indian costumes.
	Core Paper -V – Indian Historic Costumes and Textiles	Examine costumes and jewelry of south India.
9	19CDF301	Gained knowledge on north Indian jewellery
		Understands the traditional embroideries of India.
		Acquired the elements of design and application of structural and decorative design
		Examine the principles of design and application of principles on the garment.
		Gained knowledge on fashion terminology and theories of fashion adoption.
	Core Paper –VI- Fashion Art	Learnt on colour theories and standard colour harmonies.
10	19CDF302	Understand the concept on designing dressing for unusual figures and fashion accessories.
		Gained knowledge on prang colour chart
		Learnt to illustrate elements of design in a garment
		Learnt to illustrate principles of design in a garment

	Core Practical – III Fashion	Understands the usage of colours in a garment
11 19CDFP03	Art	Understands to apply colours in principles of design, designing madeups. Gained ample of information on spinning and process flow in spinning mills. Understands the fiber and its classifications Gained knowledge on yarn formation.
12 19CDF303	Core Paper- VII- Fiber to Fabric	Understands various types of weave patterns. Acquired knowledge on non-wovens. Understands to identify natural and man made fibers through microscopic method, natural and man mad fibers through flame test, natural and man made fibers through chemical test, yarn counting through warp Understands to identify twist of yarn using twist tester, weight of the fabric through quadrent balance fabric count by raveling and pick glass method, course length and loop length of knitted fabric, Understands to identify test of shrinkage
13 19CDFP04	Core Practical – IV – Fiber to Fabric	Acquired knowledge on test of absorbancy. Acquired knowledge on the tensile strength of the fabric. Acquired knowledge on factors influencing fashion changes. Gained the knowledge on fashion cycles, fashion terminologies, forecasting and fashion services ar resources.
	IDC – III Fashion and	Gained the knowledge on visual merchandising, merchandising presentation and fashion shows. Understands on Indian fashion designers

	Clothing	
14	19CDFID3 Psychology	<p>Acquired knowledge on world fashion centers and more information on fashion week</p> <p>Understands on draping and dressing forms</p> <p>Gained knowledge on draping basic front and back</p> <p>Understands on draping basic skirts.</p>
	SBC- I Basic Draping	Acquired knowledge on draping different types of yokes
15	19CDFSB1 Practical	<p>Acquired knowledge on draping different types of collar.</p> <p>Gained the knowledge on fundamentals of photography</p> <p>Acquired knowledge on types of camera and its functions</p> <p>Understands on sources of light, kinds of filter and colour photography.</p> <p>Acquired knowledge on films and accessories used in photography.</p>
	EDC1 :Fashion	
16	19CDFED1 Photography	<p>Gained knowledge on digital photography.</p> <p>Gained ample of information about weaving and weaving unit.</p> <p>Understands the various types of weaving patterns</p> <p>Acquired knowledge on intricate designed weave patterns</p>
	Core Paper	
	-VIII- Fabric Structure and	Gained information on pile fabrics
17	19CDF401 Design	Gained knowledge on double cloth weaving and stitching

		Analyzing plain weave and its derivatives
		Gained the knowledge on twill weave and its derivatives
		Determine knowledge on satin weave, sateen weave, terry pile structure
	Core Practical – VI Fabric Structure and Design.	Gained the knowledge on analyzing honey comb weave, huck a back weave, Analyzing extra warp and weft figuring, double cloth.
18	19CDFP06	Gained knowledge in processing of fabric Acquired knowledge on dyes and its classifications Understands the types of dyeing methods and machines.
	Core Paper- IX - Textile Processing	Gained various types of aesthetic finishes to the fabric. Gained knowledge on printing and its methods. Acquired knowledge on preparing samples for textile processing To gained knowledge on pre treatment process in textile. Determine the dyeing process by natural dyeing.
19	19CDF402	
	Core Practical – VII – Textile Processing	Acquired knowledge on preparing samples for different types of dyeing. Examining the various method of printing. Gained the practical knowledge on constructing saree petticoat
20	19CDFP07	

		Recognize different styles in constructing skirts	
	Core Practical	Gained the practical knowledge on constructing saree blouse	
	-V- Women's Garment	Experiment various styles in constructing middi top	
21	19CDFP05	Production	Compare different style in construction of lehenga, salwar & kameez
			Gained the knowledge on quality control and standards in the textile industry. Acquired the knowledge on various specifications, training the quality control personnel, government contacts, packing and warehousing in the garment industry.
	IDC – IV- Garment Quality and		Gained the knowledge on various functions of production control. Understands the types of control forms.
22	19CDFID4	Cost Control	Learnt on types of cost control and break- even charts. Acquired the skill on doing basic embroidery stitches. Doing basic machine embroidery stitches, tassels and fringes.
	SBC - II Surface embellishment		Gained the knowledge on practicing traditional embroidery stitches, belts and its types. Experiment various styles in applique work, bows and its types, bows and its types.
23	19CDFSB3	practical	Practicing smocking work, aari work, mirror work, fixing stone on the fabric. Learnt on visual merchandising, presentation and garment display. Gained knowledge on store design, mannequins and fixtures for selection.

Understand the store exterior and interior planning and trade organization sources.

- 24 19CDF501 Core Paper –X- Visual Merchandising Acquired knowledge on display techniques, planning. Creativity in show room displaying. Acquired knowledge on different approaches in visual merchandising, information technology, safe factors.
- Gained the knowledge on computers in fashion industry
- Acquired the knowledge on pattern making and grading using computers.
- Learnt on textile designing.
- 25 19CDF502 Core Paper– XI- Computers in the Garment Industry Acquired knowledge on 2D and 3D forms gained knowledge on application of computers in apparel manufacturing industry.
- gained the practical knowledge on constructing S.B.Vest and T-Shirt.
- gained the practical knowledge on constructing Slack Shirt and Full sleeve shirt.
- gained the practical knowledge on constructing Kalidhar kurtha.
- 26 19CDFP08 Core Practical –VIII- Men’s Garment Production gained the practical knowledge on constructing Gained the knowledge on designing motif, embroidery design, and chest prints for T-shirt using coral dra software.
- Gained the knowledge on designing children’s, women's and men’s garments using coral draw software.
- Core Practical- Gained the knowledge on designing logs and care labels for branded companies using coral draw software.

IX- Computer

27 19CDFP09 Aided Design- I Gained the knowledge on preparing production planning and scheduling using coral draw software.

Gained the knowledge on technical textiles its types and application

Get the knowledge on medical textiles.

Get the knowledge on protective textiles.

Elective I
Functional

28 19CDFE01 Clothing

Get the knowledge on sport wear and how textiles play a vital role.

Get the knowledge on smart and innovative textiles.

Acquired knowledge on types of knitting process.

Understand the knitting elements, advantages and disadvantages

Acquired knowledge on weft knitting classification and its properties.

Acquired knowledge on warp knitting classification and its properties.

Core Paper–

29 19CDF601 XII - Knitting

Understand about the knitted fabric defects and its care and maintenance.

Acquired the knowledge on identifying single jersey and double jersey fabrics knitted fabrics.

Acquired the knowledge on identifying rib and interlock fabric of knitted fabrics.

Acquired the knowledge on identifying different types of warp knitted fabrics.

Core Practical -

30 19CDFP11 XI- Knitting

Acquired the knowledge on analyzing the defects on the knitted fabric.

Acquired knowledge on designing garments and application of color harmony in the garment.

	Core Practical	Learnt to design garments on principles of design.
	-X-Computer Aided Design -	Learnt to design garment for men, women, and children for various occasions and seasons.
31 19CDFP10	II	Acquired knowledge on preparing different types of patterns, pattern grading and photo editing.
		Gained knowledge on merchandising terminologies.
		acquire knowledge on functions of merchandising.
	Elective -II	gained knowledge on costing in apparel industry.
	Fashion Merchandising and Marketing.	learned on how to analyze consumer.
32 19CDFE06		The acquire the knowledge on product development, customer profiles and product life cycles.
		Gained knowledge on cost estimation of yarns, fabrics and their finishes.
		Learnt on apparel export promotion.
	Elective III-	Acquire knowledge on document related to goods.
	Export Analysis and Documentation	Gained knowledge on import license.
33 19CDFE08		Gained knowledge on pre shipment inspection and quality control.

B.SC ECS

The area is set to promote and showcase general communication and creativity skills with the learning potential of students.

Students should be able to obtain LSRW Skills and help to explore knowledge in various genres.

Realize their responsibility towards the society center through ethical, social and human values. Students should be able to know the facets of environment and society which assist them to hold the value of life.

Construct, choose and apply the techniques, resources and modern engineering tools required for Electronic and Communication Engineering applications

Applying the knowledge in designing and analyzing the various application oriented electronic products.

Create, select and apply appropriate techniques, resources and tools to invent innovative products.

Acquire required mathematical and programming skills to formulate and solve the practical problems.

Ability to apply the skills to become an entrepreneur.

PROGRAMME OUTCOME (PO): Explore new ideas and widen the knowledge through lifelong learning.
 Apply the knowledge of Science, mathematics and fundamentals to solve problems in the domain of Electronics and communication field.

Comprehend the impact of Technical solutions in a global, economic, environmental and societal context.

Apply professional and ethical principles and function with responsibility.

Design, develop and test electronic and Embedded Systems for applications with real time constraints.
 Apply knowledge of Electronics and Communication principles in multidisciplinary environment at projects.

PROGRAM SPECIFIC
 OUTCOME (PSO)
 COURSE COURSE
 S.NO CODE NAME

COURSE OUTCOME

Understand the passive devices and its operations.

Understand and apply the Laws and theorems used in the circuits.

		To analyze the AC and DC Circuits Fundamentals.
1	22BES101	Core 1- Principles of Electronics
		To analyze the passive devices and its operations.
		Apply the Special diodes and in applications.
		To understand the basic concepts of components.
		Apply the concept of electronic and electric circuit's law.
		To understand the electronic and electric circuit's theorem.
2	22BESP01	Core Practical I – Principles of Electronics
		To Analyze the characteristics of various diodes.
		To design and analyze the circuits.
		Understand the signal amplifiers
		Understand and apply laws of power amplifiers
		To analyze the feedback amplifier Circuits Fundamentals
3	22BES201	Core 2- Electronic Circuits and Its Applications
		To analyze the oscillators
		Apply the wave shaping circuits
		Design the convertor circuits.
		Verify the rectifier circuits using diodes and implement them using hardware.
		Analyze the concepts of Oscillator circuits.

	Core Practical	Design the multivibrator circuits.
	2- Electronic	
4	22BESP02	Circuits
		Understand the amplifier circuits.
		To understand the various number systems and simplify the logical expressions using Boolean functions.
		To understand the designing of combinational and sequential Circuits.
		To analyze the simulation of digital circuits using software package.
		To apply digital functions into the various synchronous and asynchronous circuits.
5	21BES301	Core 3- Digital Logic Circuits
		To analyze and apply the digital simulation for development of application oriented logic circuits
		To remember the human cell structure and various bioelectric signals.
		To understand the physiological transducers and Bio medical recorders.
	Core 4- Electronic Instrumentation and Medical	To analyze the diagnostic and therapeutic equipments.
6	21BES302	Electronics
		To apply bio medical techniques in advancement medical instruments.
		To analyze the functions of different Electronic measuring instruments
		To Understand the block diagram of communication system.
		To understand the concept of noise performance of particular communication system.
		To analyze the Amplitude, Frequency modulation and demodulation techniques.
		To apply the formulae of Pulse modulation in analog communications.

	Core 5- Analog	
7	21BES303	<p>Communication To design the different types of transmitters and receivers used for particular applications.</p> <p>To understand the basic digital theorems and its application.</p> <p>To understand the design of digital circuits using IC's.</p>
	Core Practical	To design the amplifier for Bio signal measurements.
	3- Digital	
	Electronics and	To Analyze the recording of bio signals.
	Medical	
8	21BESP03	<p>Electronics To analyze the Special function ICs and its application.</p> <p>Remember the concept of programming languages and understand the importance of C, its data types and input output statements.</p> <p>To understand selective statements and iterative statements and implement them in programs.</p> <p>Analyse various data handling mechanism through arrays.</p> <p>Apply heterogeneous data in structures, unions and analyse pointers.</p>
	Allied 3 – C	
9	21BESA03	<p>Programming Analyse the importance of memory management and files and understand the concept of preprocessor .</p> <p>To understand the various Types of PCB</p> <p>To understand the designing of Layout Parameters and Artwork.</p> <p>To analyze the Laminates and Photo Printing</p>
	SBC 1 –PCB	To apply functions into the various Etching and Soldering.
	Fabrication and	
10	21BESSB1	<p>Designing To apply the CAD and PCB Software.</p>

		To understand the concepts of Visual Basic
		To understand the variables, data types and control structures
		To analyze and designing of forms
		To apply functions into the various control arrays
11	21BESSB2	SBC 1 – Visual Basic To apply the database concepts
		To understand the concept of IC Fabrication.
		To comprehend the concepts of Op-Amp.
		To analyse the application of Op-Amp with its application.
		To analyse the principles of PLL and Timer Circuits
12	21BES401	Core 6 - Linear Integrated Circuits To familiarize the concept of Special function ICs and its application.
		Remember the concept of Microwave transmissions and understand the Microwave devices.
		To understand the working concepts of Microwave circuits and its applications.
		Analyze the various types of antennas for wave propagations.
		Core 7- Microwave and Antenna Apply the Frequency bands to the selective antennas for the selection process of efficient communication.
13	21BES402	Propagation Analyze the importance of Electromagnetic waves for propagations.
		To understand the building blocks of digital communication system.

Analyze the performance of a Shannon's digital communication system in terms of error rate and efficiency.
Perform the time and frequency domain analysis of the signals in a digital communication system an various modulation Techniques

To understand and analyze the concept of multiplexing and multiple access.

Core 8- Digital

14 21BES403 Communication Analyze Performance of optical fiber communications.

The ability of visualization and practical implementation of Amplitude modulation techniques

The ability of visualization and practical implementation of Frequency modulation techniques

The skill to analyze and implement analogue to digital converters like PCM

Core Practical

4- Analog and Digital

The ability to design PWM, PPM systems and techniques with desired specifications

15 21BESP04 Communication The ability to design passes Analog & Digital demodulation techniques
Remember the mathematical concepts of performing addition ,standard deviation palindromes ,prim numbers and implement them in C program

Understand the concept of bubble sort and arranging the set of numbers .

Understand factorial and Armstrong numbers .

Allied

Practical 4 - C

16 21BESA04 Programming Analyse the concept of finding the largest and smallest among given set of numbers and also to find sir series .

To understand the Fundamental concepts of Automotive.

To understand the working concepts of Ignition system.

		Analyze the microsystem manufacture concepts.	
	SBC 2	Analyze the various sensors of micro system applications.	
	-Automotive		
17	21BESSB3	Electronics	Apply the Automotive techniques in control systems.
			To understand the concept of ASP.net frame work.
			To understand the Concepts of webforms standard controls.
			Analyze the concept of C#.
			Analyze the various exception handling concepts.
18	21BESSB4	ASP.Net	Apply and designing the pages and themes.
			To discover how a web and browser does works
			Develop skills in analyzing how to create html page with basic tags.
			To create lists, table representation and linking of pages
			To apply different styles for the webpage using properties.
	OEC-2	Web	
19	21BESOE1	Designing	To develop a dynamic webpage by the use of java script.
			To understand the architectural overview of 8085 Microprocessor.
			To understand the Instruction set and addressing modes of 8085 Microprocessor assembly language programming.
			To analyze the 8085 microprocessor programming concepts.

Core 9- 8085

Microprocessor and Its Applications To analyze the 8085 interfacing concepts and peripheral devices .

20 19BES501 Applications To analyze and apply the 8085 microprocessor real world applications.

To understand the basic concepts of various thyristors.

To understand and analyze the various methods of triggering and commutation concepts.

To study and analyze the controlled rectifiers and Inverters.

To study and analyze the cyclo converters and choppers.

Core 10- Power

21 19BES502 Electronics To study the various product applications.

Discuss the cellular system design and technical challenges.

Analyze the Mobile radio propagation, fading, diversity concepts and the channel modeling.

Analyze the design parameters, link design, smart antenna, beam forming and MIMO systems.

Core 11-
Advanced
Wireless

Analyze Multiuser Systems, CDMA, WCDMA network planning and OFDM Concepts.

22 19BES503 Communication Summarize the principles and applications of wireless systems and standards

To understand the basic arithmetic operations of 8085 Assembly Language Programming.

To understand the number conversion programming concepts.

Core Practical
5-

To analyze the data transfer programming concepts.

Microprocessor To Analyze the programming for interfacing peripherals with microprocessor.

	and Its	
23	19BESP05	Interfacing
		To analyze 8085 real world applications. Understand the amplifier circuits.
		The ability of visualization with various power circuits.
		The ability of visualization and practical implementation of amplification techniques
	Core Practical	
	6 – Linear	The skill to analyze and implement oscillator circuits.
	Integrated	
	Circuits and	The ability to design timing circuits with desired specifications
	Power	
24	19BESP06	Electronics
		The ability to design voltage regulatory circuits.
		Classify various types of Digital Number systems and Boolean algebra.
		Illustrate Combinational logic
		Design and implement the digital circuit using combinational logic.
	Elective I :	Design and implement the digital circuit using sequential logic.
25	19BESE01	Digital System Design
		Solve the arithmetic expressions using memories and programmable logic devices and implement memo units
		Understand the fundamentals of PLC
		Learn the PLC'S instruction.
		solve the problems using arithmetic and logic instructions
	Elective I :	
	Programmable	Analyze Timer, counter and manipulation instructions
	Logic	
26	19BESE02	Controller
		Solve the problems in real time application

		To understand the functional overview of computer hardware.
		To understand the Mother board functions.
		To analyze the functions of CD , DVD .
	Elective I : Computer Hardware and Maintenance	To analyze the interface and functions of Hard disk controller and printers.
27	19BESE03	To analyze trouble shooting concepts of Computer hardware and software.
		To understand the architectural and functional overview of 8051 Microcontroller.
		To understand the Assembly language programming concepts in 8051 Microcontroller.
		To analyze the 8051 C programming and Timer programming.
	Core 12- 8051 Microcontroller and Its Applications	To analyze the serial communication with the help of 8051 based serial standards.
28	19BES601	To analyze and apply the 8051 interfacing concepts in real world applications.
		To understand the functional overview of Embedded Systems.
		To understand the PIC 16F877A architecture.
		To analyze the Special features of PIC 16F877A CPU.
	Core 13- Embedded Systems and Its Applications	To analyze the Process and Its Synchronizations.
29	19BES602	To analyze Embedded system real world applications with case studies.
		To understand the basic arithmetic and logical operations of 8051 Assembly Language Programming.

		To understand the number conversion programming concepts.
	Core Practical 7-	To analyze the smallest and largest number in an array concepts.
	Microcontroller and Its	To Analyze the programming for interfacing peripherals with microcontroller.
30	19BESP06	Interfacing To analyze 8051 real world applications.
		Understand the fundamentals of Digital Image Processing.
		Learn the image enhancement techniques in Spatial and Frequency Domain.
		Model the Noises, Restoration and Compression.
	Elective II – Advanced Digital Image	Analyze segmentation and compression techniques.
31	19BESE04	Processing Apply various algorithms for Colour Image Processing.
		To understand the basic concepts of multimedia.
		To understand the multimedia tools and operations.
		To analyze the animation concepts.
		To understand and Analyze the working functions of internet.
	Elective II –	
32	19BESE05	Multimedia To analyze multimedia applications.
		Acquire knowledge of the structure and model of the Java programming language
		Create Java programs that solve simple business problems.

		Explore various programming paradigms as well as principles of building object-oriented software
	Elective II – Java	Develop Java applications with graphical user interface (GUI).
33	19BESE06	Programming
		Implement the Concept of streams and file handling.
		Understanding of basic fundamental aspects of robotics.
		Gain the enough knowledge about various robot technologies.
		Analyze the robot motion and controlling mechanism.
	Elective III – Principles of	Analyze and understand the various robotic sensors.
34	19BESE07	Robotics
		Gain the knowledge towards the various applications of robotics.
		Discuss about Digital Television Technology
		Analyze the transmission of Digital TV signals
	Elective III – HDTV and	Understand the concept of advanced television systems
	Real Time	Analyze HDTV systems and standards
	Security	
35	19BESE08	Systems
		Analyze and resolve security issues in network and computer systems to secure and IT infrastructure.
		Understand the basic CMOS circuits and technology.
		Understand and apply the techniques for chip design using programmable devices.
	Elective III –	Understand and apply the sequential logic design.

Fundamentals
of VLSI
Technology

36 19BESE09

Analyze the sub systems design.

Apply and analyze the digital system using Hardware Description Language

B.Sc(CATERING SCIENCE AND HOTEL MANAGEMENT)

The area is set to promote and showcase general communication and creativity skills with the learning potential of students

Students should be able to obtain LSRW skills and help to explore knowledge in various genres

Realize their responsibility towards the society centre through ethical, social and human values

Students should be able to know the facts of the environment and society which assist them to hold the values of life

Understand the fundamentals of Hospitality Industry, Food production operations, Food and Beverage Service, Housekeeping and Front office operations

Apply professional skills required for the Hospitality Industry

Utilize knowledge acquired for superior performance and value to customers

Obtain operational and supervisory positions within the Hospitality sector such as Hotels, Resorts, Cruise lines, Restaurants and Catering establishments

To run their own business entity

PROGRAM OUTCOME:

Understand the techniques of advanced technologies used in hotel industry

To acquire knowledge in the hospitality domain to excel in professional career and social life.

To adapt to evolving changes in real time professional career.

To demonstrate professional competence in the operational areas of the Hospitality Industry.

PROGRAM SPECIFIC
OUTCOME

Course

S.No	Code	Course Name	Course Outcome
			To understand the functions of non-core departments like accounts, human resource, etc.
			To utilize the acquired knowledge to manage and evaluate functional systems in hospitality industry
			To demonstrate professional competence in the operational areas of the hospitality industry.
			To develop basic ethics and skills needed for kitchen course.
			To develop knowledge of kitchen hierarchy and inter departmental relationship.
			To acquire knowledge on terminologies used in methods of preparation.
1	21BHM101	Core 1- Food Production and Patisserie-I	<p>To understand the methods of cooking.</p> <p>To understand about the various cooking materials and their uses.</p> <p>To impart knowledge on basic ethics and relationship with in and out of catering industry of Food and Beverage personnel.</p> <p>To impart knowledge about staff organization and Food and Beverage outlets.</p> <p>To acquire knowledge on operational equipments.</p>
2	21BHM102	Core 2- Food and Beverage Service-I	<p>To develop knowledge about ancillary department and preparation of restaurant service.</p> <p>To develop menu knowledge.</p> <p>To impart basic ethics and functions of housekeeping department.</p> <p>To develop knowledge planning of housekeeping department and cleaning and maintenance of guest room and public area.</p>

		To acquire knowledge on management of linen, uniform, and pest control.
	Core 3- Housekeeping	To develop knowledge on laundry services.
3	21BHM103 Management	To acquire knowledge on interior designing.
		To develop basic skills on handling equipments and basic kitchen etiquettes.
		To develop knowledge on identification of raw materials and knife handling skills.
	Core Practical1- Food Production and	To develop basic knowledge on preparation of stocks and sauces
4	21BHMP01 Patisserie -I	To develop knowledge and skill in framing menu and preparation of basic Indian cuisine dishes.
		To develop knowledge and skill in framing menu and preparation of basic Continental cuisine dishes.
		To acquire knowledge and apply skills required for handling operational equipments and tools by foc service personnel.
		To acquire knowledge on compiling and allocation of menu
	Core Practical2- Food and Beverage	To develop skill on service of various courses of menu.
5	21BHMP02 Service -I	To demonstrate skill in handling guest related service.
		To demonstrate the proper cover laying of presentation of bills.
		To acquire basic knowledge on self awareness, creativity and goal setting.
		To acquire knowledge on inter personnel skills.
	To develop a knowledge on time management and personality development.

	Allied 1 :	
	Hospitality	To develop knowledge on group discussion and body language.
21BHMA0	Personnel	
6 1	Development	To acquire knowledge about interviews and basic ethics on communication skills.
		To acquire knowledge on vegetable cookery.
		To develop knowledge on dairy products.
		To understand about fish and meat cookery.
	Core 4 - Food	To understand about various basic starters and sauces.
	Production and	
7 21BHM201	Patisserie-II	To understand about Indian masalas and modern garnishes.
		To understand about breakfast services.
		To recognize different styles of services.
		To acquire knowledge about non alcoholic beverages.
	Core 5- Food	To understand about billing and checking and tobacco.
	and Beverage	
8 21BHM202	Service-II	To acquire knowledge about cheese and sweet courses service procedure.
		To develop basic skills on handling equipments and basic kitchen etiquettes.
		To develop knowledge on identification of raw materials and knife handling skills.
	Core Practical	To develop basic knowledge on preparation of stocks and sauces
	1- Food	To develop knowledge and skill in framing menu and preparation of basic Indian cuisine dishes.

	Production and	
9	21BHMP01 Patisserie -I	To develop knowledge and skill in framing menu and preparation of basic Continental cuisine dishes. To acquire knowledge and apply skills required for handling operational equipments and tools by foc service personnel. To acquire knowledge on compiling and allocation of menu To develop skill on service of various courses of menu.
	Core Practical 2 - Food and Beverage	To demonstrate skill in handling guest related service.
10	21BHMP02 Service -I	To demonstrate the proper cover laying of presentation of bills. To identify the layout of guest rooms and cleaning agents To apply basic skills about areas of cleaning. To understand sequence of cleaning and polishing
	Core Practical 3 - Housekeeping	To analyze the techniques of situation handling
11	21BHMP03 Management	To develop skills in stain removal, bed making and flower arrangement. CO-1 To acquire knowledge about Indian Spices, Quantity cooking, Institutional and Industrial Catering. CO-2 To understand the Learning about Indian Breakfast dishes, basic gravies, Indian and Pulaos. CO-3 To understand and learn about Learning the regional cuisines of South India, Ingredients characteristics, Festival dishes of India CO-4 To acquire knowledge about other regional cuisines of India Ingredients, characteristics, Festiva
	Core 6 - Food Production and	dishes of India
12	19BHM301 Patisserie-III	CO-5 To acquire knowledge about on Tandoor cooking, Ingredients and Marinations.

		CO-1 To acquire theoretical knowledge of classification of alcoholic beverages and wine production.
		CO-2 Acquire good knowledge in Classification of French wines and their important, classification of Wine of Germany
		CO-3 To Acquire knowledge of wines of Italy and their classification. Understand the importance of wine and food pairing with examples.
	Core 7- Food and Beverage	CO-4 Beer manufacturing and calculation of alcoholic percentage.
13	19BHM302 Service-III	CO-5 Production of Whisky, Brandy, Rum and Vodka and their unique products.
		CO-1 To develop knowledge on types of hotels, rooms, and guest. Understand the attributes of the front office staff.
		CO-2 To acquire knowledge of reservations and front office equipments used , protocols and procedures in reservations.
		CO-3 To acquire knowledge on various checkout procedures, types of account settlement and occupancy.
	Core 8- Front Office	CO-4 To develop understanding on Guest relation and social skills and Lobby hierarchy and duties.
14	19BHM303 Operations	CO-5 To acquire knowledge on various Front office accounting Systems, guest account cycle and forecasting and its formats.
		CO-1 To acquire knowledge about bakery raw materials, weighing and measurements and equipments used.
		CO-2 To develop knowledge on basic Bread and artisanal bread, various cake mixing procedures and their faults.
		CO-3 To acquire knowledge about different icings, petit fours and hot and cold desserts.
	Core 9 - Bakery and	CO-4 To acquire knowledge about different basic pastes and their products reasons and faults.
15	19BHM304 Confectionery	CO-5 To acquire knowledge about types of meringue, cookies and cooking for special needs.
		CO-1 To acquire professional skills in Bakery and Confectionery.

		CO-2 To develop professional skills in making Breads, Buns.
		CO-3 To acquire skill in making Various Pastes, Tarts, and Cookies.
16	19BHMSB 16 1	Practical - Bakery and Confectionary
		CO-4 To develop skill in making , Cakes, Sponges, Icings
		CO-5 To the skill in making Pies, Puddings, pastries
		CO-1 To demonstrate Skill about Basic Icing making
		CO-2 To abl to demostrate Skill in application of different Icings in finished food Products
		CO-3 To exhbit Skills in making decoration with Different Icing
17	19BHMSB 17 2	Practical - Cake Icing and Decoration
		CO-4 To develop skill on various chocolate garnishes.
		CO-5 To develop skill to work with butter cream.
		CO-1 To acquire knowledge on Chinese cuisine,Sri Lankan cuisine
		CO-2 To acquire knowledge on Japanese cuisine, Italian cuisine
		CO-3 To acquire knowledge on Spanish cuisine, French cuisine, Mediterranean cuisine.
18	19BHM401	Core 10 - Food Production And Patisserie-IV
		CO-4 To acquire knowledge on Scandinavian cuisines, United Kingdom.
		CO-5 To develop knowledge about Mexican cuisine , Plate presentation and Fusion Cuisine.
		CO-1 To acquire theoretical knowledge on Vermouth and Liqueurs.
		CO-2 To aquire good knowledge on bar setup and its components.

		CO-3 To Develop knowledge to prepare the beverage list.
	Core11- Food and Beverage	CO-4 To acquire knowledge about Cocktails and Mocktails recipies.
19	19BHM402 Service-IV	CO-5 To gain knowledge on mixology, prepration and its service.
		CO-1 To develop skill and techniques about tandoori cooking.
		CO-2 To develop skill and techniques in prepration of various tandoori dishes.
		CO-3 To aquire technical skills on preparation of regional Indian cuisine dishes.
	Core Practical 4 - Food Production and	CO-4 To aquire technical skills on preparation of International cuisine dishes.
20	19BHMP04 Patisserie -II	CO-5 To develop skill and ability to design and prepare a five course menu.
		CO-1 To develop skill and techniques in Service of Alcoholic Beverages.
		CO-2 To develop skill and techniques in Service of liqueur coffee and spirit coffee.
		CO-3 To develop skill and techniques in Service of Apertif
	Core Practical 5 - Food and Beverage	CO-4 To develop skill and techniques in Compiling wine list.
21	19BHMP05 Service -II	CO-5 To develop skill and techniques in Service of Wine.
		CO-1 To deveolpe skill in Situation handling and guest complaints.
		CO-2 Aquire good Skill in Reservation procedure, identification of rooms through the use of Convention and Destiny Charts.
		CO-3 Deveolpe Skill about the following staffs Doorman, Bellboy, Receptionist,

	Core Practical 6 - Front Office	CO-4 To develop skill in how to handle telephone
22	19BHMP06 Operations	CO-5 Acquire good etiquets in Hotel front office.
		CO-1 To develop knowledge about design and layout planning of a food a facility. prospectus to learn about the intial set up
		CO-3 To develop knowledge about functional Planning and atmosphere to learn about the details i organising the facility.
	Food service 19BHME0 Facilities and 23 1 planning	CO-4 To aquire knowledge about work place design and Equipment requirements.
		CO-5 To aquire knowledge about space requirements for various establishments
		CO-1 To develop basic knowledge on Fast food operations Histroy
		CO-2 To understand the diferent Concept of Fast food Joints
		CO-3 To acquire knowledge about equipments, Control measures and types of food.
		CO-4 To develope knowledge on Selling techniques.
	19BHME0 Fast food 24 2 Operations	CO-5 To explore case studies.
		CO-1 To develop understanding about Safety Perspective
		CO-2 To understand about Varoius Mirobes Causing Contamination
		CO-3 To understand the importance of food safety in hotel.
		CO-4 To aquire Knowledge on Food Hygiene revelat to various Products.

19BHME0	Food Safety	
25 3	Microbiology	CO-5 To develop Understanding about food borne Infection, Causes of Toxicity and FSSAI Regulations CO-1 To gain knowledge about the types and motivation of travel by learning about the Principles of Tourism CO-2 To learn the functions of travel agents and their role. CO-3 To develop knowledge of the rules and regulations of travel pertaining to government organisations. CO-4 To understand the role of tour operators and travel requirements to travel around the world. CO-5 To develop knowledge on various technology, tourism sectors and handling foreign Currency and acquire information on latest trends.
26	IDC 4 – Travel and Tourism	19BHMID4
		CO-1 To develop the ability to identify Equipments and Raw materials used in Garde Manger CO-2 To develop the skill in carving from vegetable, fruits, thermocol, butter sculpture and Ice block. CO-3 To learn the skill to prepare cold egg, chicken and red meats dishes and prepare plate and mirror presentation CO-4 To be able to design cold food as per customer needs in hotel.
19BHMSB	Practical -	
27 3	Garde Manger	CO-5 To develop skill in handling Hot and Cold food with focus on temperature modifications. CO-1 To develop the ability in making of Indian Milk Sweet. CO-2 To develop skills in making of Indian sweets with Various Raw Materials CO-3 To be able making of Indian Snack made with different raw materials
19BHMSB	Practical -	
28 4	Indian Sweets and Snacks	CO-4 To make famous south indian sweets. CO-5 To make famous south indian snacks.

		CO-1 Acquire knowledge about Garde manger kitchen and its operations
		CO-2 To acquire a good understanding about Force meat, Panada, Compound butters, Marinade and Brine.
		CO-3 Develop Knowledge about Chaud Froid, Ice carving.
	Core 12 - Food Production and	CO-4 Understand about types of garnishes and left over utilization.
29	19BHM501 Patisserie-V	CO-5 Develop Knowledge about food production Operations
		CO-1 Acquire knowledge on Gueridon Service and its importance.
		CO-2 To develop knowledge about Function catering
		CO-3 To understand about Outdoor catering and specialized forms of service
	Core13- Food and Beverage	CO-4 To develop understanding about Budgeting and Staff organisation.
30	19BHM502 Service-V	CO-5 To gain knowledge about Mixology.
		CO-1 To develop an understanding about Food & Beverage functions
		CO-2 To acquire a good understanding on purchasing of food & beverages and related details
		CO-3 To understand about Storing & issuing relates to Food and beverage control.
	Core14- Food and Beverage	CO-4 Develop Knowledge about different cost factors involved.
31	19BHM503 Management	CO-5 Acquire knowledge on menu engineering and menu merchandising.
		CO-1 To acquire practical skills in advanced professional Continental cuisine

		CO-2 To develop skills on preparation of Salad, Soups.
		CO-3 To aquire skills in Preparation of Egg and Pasta dishes.
	Core Practical	
	7 - Food	CO-4 To develop skills on preparation of Fish, Meat and Chicken dishes.
	Production and	
32	19BHMP07 Patisserie -III	CO-5 To gain Skills in the preparation of savoury and desert dishes.
		CO-1 To gain Skills on cooking and carving at table.
		CO-2 To develop skills on service of Alcoholic beverages.
		CO-3 To aquire skills on food and wine compiliation.
	Core Practical	
	8 - Food And	CO-4 Aquiring skills in the art of Mocktail Mixing
	Beverage	
33	19BHMP08 Service -III	CO-5 Developing skill in the art of making cocktail.
		CO-1 To develop and understanding about the role of Human resourse department.
		CO-2 To aquire knowledge on manpower planning and recruitment
	Human	CO-3 To develop knowledge on performance Appraisal, Promortion and Punishments
	Resource	
	Management in	CO-4 Understand about administration of wages and salary
	Hospitality	
34	19BHME04 Industry	CO-5 To understand the importance of Industry Relationship
		CO-1 To gain good knowledge on Hospitality licence requirements
		CO- 2 To gain knowledge on the Acts and Laws relevant to different kinfd of firms.

		CO-3 To understand the factors involving contracts and its types
		CO-4 To acquire Knowledge on various laws relevant to employee dispute and employee welfare
19BHME0		
35	5 Hotel Law	CO-5 To gain knowledge on government governing bodies for various licences
		CO-1 Develop basic knowledge on Fast food operations History
		CO-2 Understand the different Concept of Fast food Joints
		CO-3 Acquire Knowledge about Equipments, Control measures and types of food.
		CO-4 Develop Knowledge on establishing Standards and Exploring Case studies
19BHME0	Food	
36	6 Preservation	CO-5 Acquire Knowledge about health effects of fast foods
		CO-1 To acquire the knowledge about the grooming standards in the industry
		CO-2 To gain knowledge on safety and hygiene practices followed in the hotel
		CO-3 To gain knowledge on operational procedures followed in the hotel
	Industrial	
	Exposure	CO-4 To develop an individual's practical skills
19BHMPR	Training	
37	1 Report	CO-5 To learn and follow various policies and practices in the hotel
		CO-1 Understanding the concepts & conventions of Accounting
		CO-2 To acquire the knowledge on preparation of Trial Balance, Bank Reconciliation Statement and its Problems
		CO-3 Getting complete knowledge about Subsidiary Books

Hotel
 38 19BHMID3 Accounting

CO-4 To know the preparation of Final Accounts with adjustments

CO-5 To acquire the knowledge about analysing income and expenditure account

CO-1 To gain adequate knowledge in Hindi alphabets, numbers and names of vegetables required for hospitality industry

CO-2 To acquire knowledge about simple sentence construction in Hindi that are used in job sector

CO-3 To gain knowledge on various terminologies used in the Hospitality industry.

19BHMED Communicative
 39 1 Hindi -I

CO4-To learn the techniques in basic conversation.

CO5-To understand to recognize utensils and ,spices and relate them to terminology in cookery

CO-1 To acquire advanced knowledge in use of alphabets and numbers.

CO-2 To understand words and construct sentences used in Hotel Management.

CO-3 To know the usage of terminology in cooking and basic recipes.

19BHMED Communicative
 40 2 Hindi -II

CO-4To learn the basics of conversation in restaurant and outside.

CO-5 To know recipe of common food items in Hindi

BCA

The area is set to promote and showcase the general communication and reactivity skills with the learning potential of students.

Students should be able to obtain LSRW skills and help to explore knowledge in various genres.

Realize their responsibility towards the society centre through ethical, social and human values.

Students should be able to know the facts of environment and society which assist them to hold the value of the life.

Attain the core value in their respective area to meet out the global competitive edge.
To enhance their skills and new computing technologies through practical and theoretical knowledge of Computer.

Apply and update their skills towards their employability, entrepreneurship and its sustainability.

Recognize the opportunities towards their up gradation and professional development in all spheres.

To Blend analytical, logical and managerial skills with the technical aspects to resolve real world issues.
To expertise students as computing professionals to earn more and to contribute to the economic

PROGRAMME OUTCOME (PO): development of the region, state and nation.

An ability to apply knowledge of computing and mathematics appropriate to the discipline.
An ability to apply current techniques, skills, and tools necessary for computing practice and to integrate IT based solutions into the user environment effectively.

An ability to apply design and development principles in the construction of software systems of varying complexity.

An ability to use knowledge in various domains to identify real world problems and hence to provide solution to new ideas and innovations.

PROGRAMME SPECIFIC
OUTCOME (PSO):

An ability to design, document and develop robust applications by considering human, financial and environmental factors using cutting edge technologies to address individual and organizational needs.

Course

S.No	Code	Course Name	Course Outcome
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CO1:Acquire knowledge about basic knowledge about computer fundamentals.

CO2:Understand the concept of how to create and use word document.

INTRODUCTI
CO3:Perform calculations using MS-Excel

	ON TO OFFICE AUTOMATIO	CO4:Present the content using MS-PowerPoint
1	21BCA101 N	CO5:Store and Retrieve the information using MS-Access and also gains some basic concepts of Internet. CO1:Learn and Implement Word Processing Skills such as Create and edit one page Word documents and Format and enhance Word documents.
	OFFICE AUTOMATIO N AND INTERNET PROGRAMMI	CO2:Create and edit basic PowerPoint presentations Use template,animations etc. CO3:Create and perform calculations using MS-Excel. CO4:Performs operations on Database.
2	21BCAP01 NG	CO5:Identify and use Internet browser features , Use Search tools and Understand Internet Ethics. CO1:Get basic knowledge about the operators, expressions and I/O statements. CO2:Understand basic concepts on the looping statements, control statements. CO3:Gain knowledge about functions and its types. CO4:To impart knowledge on structures, union and file handling operations
3	21BCA201 NG IN C	PROGRAMMI CO5:To impart knowledge on file operation and Memory allocation. CO1:To understand the basic data types, branching and looping statements CO2:To learn how to design structure and union. CO3:To understand the concept of pointers and functions. CO4:Enabling effective usage of arrays, structures and pointers.

PROGRAMMI

4 21BCAP02 NG IN C-LAB CO5:To gain knowledge to use files and command line arguments.

CO1:Upgrade the skills and get awareness about the security mechanisms

CO2:To understand the terminology and background of crypto graphics

CO3: Improve the learning skills to find faults and fix faults in malicious program

CO4: To understand methods of protection in operating systems

INFORMATIO

5 19BCA601 N SECURITY CO5: Gain knowledge about security requirements of databases.

CO1: Develop and Create PHP scripts that use object-oriented PHP.

CO2: To Implement business logic within the database

CO3: Upgrade the knowledge to Use stored procedures and triggers

CO4: Improve the skills to Create and deploy a portable web-based system

PHP

PROGRAMMI

6 19BCA602 NG CO5: To inculcate the knowledge to Test and debug object-oriented PHP scripts

CO1: Develop and learnt knowledge of programming using PHP scripts and its datatypes

CO2: Implement the skills and Learnt to develop programming using arrays.

CO3: Upgrade and learnt to develop programs using forms and cookies

PHP

PROGRAMMI

7 19BCAP08 NG LAB CO5: To Inculcate the development skills about MySql

CO4: Gain knowlededge about image functions and graphics

CO1: To Identify the constraints, uncertainties and risk of the system

CO2: Increase the skills and apply relevant problem solving methodologies

CO3: Apply Design components, systems and/ or processes to meet required specification

CO4: To Inculcate knowledge on mobile computing and Demonstrate research skills

MOBILE

8 19BCAE04 COMPUTING CO5: To Communicate effectively in ways appropriate to the discipline, audience and purpose.

CO1: To developed understanding of technical aspect of android Technology

CO2: Understand various file formats for audio, video and text in android.

INTRODUCTI
ON TO
ANDROID
TECHNOLOG

CO3: Able to describe various memory management techniques.

CO4: Create a Design for interactive multimedia software.

9 19BCAE05 Y CO5: Able to apply the concepts of operating system to study android technology.

CO1: Understand the working of cloud computing and their procedure and conditions

CO2: To Identifies centralising email communicaitons and mappind schedule in projects

CO3: Explore collaboration of scheduling, planning and event management and contact management

CO4: Evaluate the web conference tools and how to create social networks

CLOUD

10 19BCAE06 COMPUTING CO5: To Describe about groupware

CO1: To know about the types of projects

		CO2: Understand to do activity planning
		CO3: Learn about the risk management
	SOFTWARE PROJECT MANAGEMEN	CO4: Understand about the configuration management
11	19BCAE07 NT	CO5: Adequate knowledge to do case study
		CO1: Ability to develop web pages using HTML and Cascading Style Sheets.
		CO2: Gain Knowledge of client-side(JavaScript) server-side scripting(PHP, ASP.NET) languages
		CO3: To Understand about static and dynamic web pages
	WEB TECHNOLOG	CO4: Develop Familiarization with Web Application Terminologies, Internet Tools, E –Commerce ,we service
12	19BCAE08 Y	CO5: To understand the applications on web technology in real world environment
		CO1: Understand the Fundamentals of Internet of Things.
		CO2: Design a portable IoT using Arduino/ equivalent boards and relevant Protocols
		CO3: Analyze applications of IoT in real time scenario
		CO4: Develop web services to access/control IoT devices
	INTERNET OF THINGS	CO5: Deploy an IoT application and connect to the cloud
13	19BCAE09	CO1: Understand the basic concepts of .NET Framework
		CO2: Describe some of the major enhancements to the new version of Visual Basic

		CO3: To Develop an applications using Microsoft Windows® Forms
	.NET PROGRAMMI	CO4: To Improve the Knowledge on Creating applications that use ADO. NET
14	19BCA501 NG	CO5: Develop Crystal Reports that may help in creating reports related to the project
		CO1: To understand the Basic need to create a Network
		CO2: Learn about different layers and protocols present in those layers
		CO3: Configure the network devices
		CO4: To Update the skills and Learn about IP -Addressing.
15	19BCA502 COMPUTER NETWORKS	CO5: Provide skills about Network Security
		CO1: Develop solutions to simple computational problems.
		CO2: Write and execute simple Python programs.
		CO3: Decompose a Python program into functions.
		CO4: Represent compound data using Python lists, tuples and dictionaries.
16	19BCA503 PYTHON PROGRAMMI NG	CO5: Apply OOPs concepts in real-time Python applications.
		CO1: develop skills on Application programs for .net framework
		CO2: Upgrade skills to develop simple application using the concepts of inheritance
		CO3: Develop simple application to generate auto passwords and GK test

	.NET PROGRAMMI	CO4: Improve knowledge any kind of queries and various table manipulation can be done
17 19BCAP06	NG LAB	CO5: To Develop programs with database connections over network
		CO1: Write diversified solution using Python language.
		CO2: Solve problems using control statements.
		CO3: Knows about overloading concepts.
	PYTHON PROGRAMMI	CO4: Develop programs using Tuples, Lists and Dictionaries.
18 19BCAP07	NG	CO5: Implement program using file handling operations.
		CO1: Develop and implement the skills about E-commerce, E-business benefits and limitations
		CO2: Learnt and understand about mobile commerce and wireless applications
		CO3: To understand about E-security in cyberspace
		CO4: Upgrade the skills about E-payments and M-commerce
19 19BCAE01	E- COMMERCE	CO5: To inculcate the skills about business tools and EDI
		CO1: To Learnt about evolution of client sever computing
		CO2: Gain knowledge about various system standards(Client server OS)
		CO3: Learnt about client hardware and software other components
	CLIENT	CO4: To know about the server- hardware, network management

	SERVER	
20	19BCAE02	COMPUTING
		CO5: Learnt and understand about the networking concepts
		CO1: Learnt and understand the objectives of testing the software
		CO2: Upgrade the skills on test case tools implementations
		CO3: To understand the life cycle models and its phases of software project
		CO4: Gain knowledge about various testing .
21	19BCAE03	TESTING
		CO5: Develop and understand about system , acceptance and implematation phase.
		CO1: Understand the features of C++ supporting object oriented programming.
		CO2: Learn about functions, Control Structures and Polymorphism concepts in C++.
		CO3: Apply the concepts of object-oriented programming.
		CO4: Understand about arrays,Objects and Virtual functions in C++.
22	19BCA301	C++
		CO5: Illustrate the process of data file manipulations,Templates using C++.
		CO1: Gain Knowledge on fundamentals of Operating Systems.
		CO2: Learn the mechanisms of OS to handle processes and threads and their communication.
		CO3: Acquires knowledge on Process and its Scheduling Mechanism.
		CO4: To learn the mechanisms involved in memory management in contemporary.
23	19BCA302	OPERATING SYSTEM
		CO5: Knows about File system and its implementations

		CO1: Ability to analyze algorithms and algorithm correctness.
		CO2: Gain Knowledge on Stack and Queue Operations.
		CO3: Knows about Linked List and its implementation.
	DATA	CO4: To have knowledge of trees and graphs concepts.
	STRUCTURE	
24	19BCA303 S	CO5: Ability to summarize searching and sorting techniques.
		CO1: Ability to analyze constructor and destructors.
		CO2: Gain Knowledge about function overloading and operator overloading.
		CO3: Knows about Inheritance and Abstract classes.
	DATA	CO4: To have knowledge of trees, stack and queue concepts.
	STRUCTURE	
25	19BCAP03 S & C++ LAB	CO5: Ability to summarize searching and sorting techniques
		CO1: Ability to design and create websites.
		CO2: Gain Knowledge on CSS Script and using it to design a website.
		CO3: Knows about HTML tags and its implementation.
	WEB	CO4: To have knowledge of Lists and Tables in HTML.
	DESIGNING	
26	19BCASB1 USING HTML	CO5: Ability to Formatting style of a website and improve critical thinking skills.
		CO1: Ability to analyze work with image editing and graphic design features.

CO2: Gain Knowledge on basic Photoshop skills and concepts to develop graphics

CO3: Knows about Layers and its implementation.

CO4: To have knowledge of color correction and graphic options.

27 19BCASB2 PHOTOSHOP CO5: Ability to summarize various editing tools.

CO1: Acquire knowledge of the structure and model of the Java programming language

CO2: Create Java programs that solve simple business problems.

CO3: Explore various programming paradigms as well as principles of building object-oriented

JAVA
PROGRAMMI

CO4: Develop Java applications with graphical user interface (GUI).

28 19BCA401 NG CO5: Implement the Concept of streams and file handling.

CO1: Describe the fundamental elements of relational database management systems.

CO2: Explain the basic concepts of relational data model, entity-relationship model, relational

RELATIONAL
DATABASE
MANAGEME

CO3: Design ER-models to represent simple database application scenarios

CO4: To gain knowledge about PL/SQL fundamentals and its structure.

29 19BCA402 NT SYSTEM CO5: Have knowledge about PL/SQL cursors and exceptions.

CO1: Use an IDE to write, compile, run and test simple object oriented java program.

CO2: Design and implement Applet and event handling mechanism in application programs.

CO3: Apply the concept of package and gain knowledge about Exception handling.

CO4: Use JFrames in graphical interactive application development.

PROGRAMMI

30 19BCAP04 NG IN JAVA CO5: Evaluate user requirement for software functionality.

CO1: Develop a database application and use queries to retrieve data.

CO2: Represent the database using ER diagrams.

CO3: Apply normalization to database.

CO4: To gain knowledge about project design and implementation.

31 19BCAP05 RDBMS LAB CO5: Have knowledge about PL/SQL, trigger and exceptions.

CO1: Define, identify and applied principles of employee and labor relations, employment law,

CO2: Gain knowledge about HR's Role in organization.

CO3: Analyze the principles of metrics and measurements of HR.

HUMAN

RESOURCE

MANAGEME

CO4: To gain knowledge about the fundamentals of Trading and union.

32 19BCAID4 NT CO5: Apply the principles of Workforce planning and talent management

CO1: Describe technical characteristics and performance of multimedia system.

CO2: Design creative approach in application of multimedia devices, equipment and systems.

CO3: Describe the development process and applications of the multimedia systems.

33 19BCASB3 A	MULTIMEDI	CO4: Carry out experiments and measurements on the multimedia systems.
		CO5: Gain knowledge about internet and multimedia on web.
		CO1: Analyze basic functionalities and file options in CorelDraw.
		CO2: To gain knowledge about objects and formatting text.
		CO3: Describe the color models and special effects.
34 19BCASB4	GRAPHICAL DESIGN USING CORELDRAW	CO4: Get Knowledge about manipulating images and basic tools in CorelDraw.
		CO5: Gain knowledge about 3D design and rendering functions.

BA ENGLISH

potential of students

Students should be able to obtain LSRW Skills and help to explore knowledge in various genres.

Realize their responsibility towards the society center through ethical, social and human values.

Students should be able to know the facets of environment and society which assist them to hold the value of life.

Students should be familiar with representative literary and cultural texts within a significant number of historical, geographical, and cultural contexts.

Students should be able to apply critical and theoretical approaches to the reading and analysis of literary and cultural texts in multiple genres.

Students should be able to identify, analyze, interpret and describe the critical ideas, values, and theme that appear in literary and cultural texts.

Students should be able to critically analyze various forms and genre of literature.

PROGRAMME OUTCOME (PO): Students should be able to ethically gather, understand, evaluate and synthesize information from a variety of written and electronic sources.
Students should be able to understand the process of communication and interpretation through literary representation.

Develop intellectual, personal and professional abilities through effective communicative skills.
Ensure behavioral attitude through literary subjects and shaping the students to become socially responsible citizens and critically analyzing the literary works.
Educate students in both the artistry and utility of the English language through the study of literature and other contemporary forms of culture.

PROGRAMME SPECIFIC OUTCOME (PSO): Encourage students to face the challenges as it is essential and rewarding part of learning and growth
Assist students in the development of intellectual flexibility, creativity and cultural literacy which provides an academic environment to fit in a job.

Course

S.No Code Course Name Course Outcome

CO1: Interpret Bacon's essays and Sir Richard Steele in prose form.

CO2: Identify Eighteenth Century Collaborative Journalism is learnt by the students.

CO3: Compare Prose Romanticism through Lamb and Hazlitt.

CO4: Apply Theological, Paradoxical theories.

CO5: Make use of Prose writers.

PART-III-
CORE-1

1 21BAE101 PROSE

CO1: Summarize Eighteenth Century life of woman

CO2: Outline moralistic views of the Victorian Age

CO3: Relate social reform of the Nineteenth Century

2 21BAE102	PART-III- CORE 2 FICTION	CO4: Identify the elements of Detective Novel CO5: Interpret the fictional writings of the various ages.
		CO1: Compare between the Renaissance and Reformation period and the development in learning.
		CO2: Relate the consequences of colonization and the significance of the Civil War.
3 21BAEA01	PART-III- Allied – 1 SOCIAL HISTORY OF ENGLAND	CO3: Identify the political reformation in England. CO4: Analyze the effects of Industrial and Agrarian Revolution that led to changes in learning. CO5: Relate French Revolution, World Wars and the consequences.
		CO1: Interpret various types of poetry.
		CO2: Relate the Metaphysical poets and their revolutionary ideas.
		CO3: Recognize poetry from a variety of cultures, languages and historic periods
4 21BAE201	PART - III - CORE 3 POETRY – I	CO4: Explain the modern forms of poetry. CO5: Understand the common techniques underlying free verse and traditional forms of poetry
		CO1: Categorize Parts of Speech-Noun, Pronoun & Adjective
		CO2: Categorize Parts of Speech- Verb, Adverbs, Prepositions, Conjunctions & Interjections
		CO3: Understand the agreement between Subject and Verb
	PART-III- CORE 4	CO4: Become familiar with transformations of sentences

5 21BAE202	GRAMMAR AND USAGE	CO5: Comprehend vocabulary
		CO1: Compare poetic types and stanza forms.
		CO2: Relate various school of poetry
		CO3: Outline the features of Drama and its life.
6 21BAEA02	PART-III- Allied- 2 LITERARY FORMS	CO4: Interpret the origin of English Drama and Essay.
		CO5: Utilize various genres like the Novel, Short story, Biography and Autobiography.
		CO1: Appreciate the nuances of poetic language and poetic devices.
		CO2: Differentiate the different kinds of poetry – lyric, ode, ballad, elegy and dramatic monologue.
		CO3: Analyze the poems critically.
7 19BAE301	PART-III CORE 5 POETRY-II	CO4: Understand and get acquainted with the creative imagination and techniques of poetry.
		CO5: Understand and appreciate poetry as a literary art form.
		CO1: Understand the structure of a play and learn the dramatic devices used in writing a play.
		CO2: Gain knowledge in the development of English drama.
		CO3: Conceptualize various types of drama viz. Tragedy, Comedy, Farce, Melodrama, Historical Plays.
		CO4: Interpret literary texts in English by nurturing and utilizing their ability to understand drama in a skilled, knowledgeable, and ethical manner.
8 19BAE302	PART-III CORE 6 - DRAMA	CO5: Develop reading, writing and analytical skills and communicate their ideas critically and Creatively.

		CO1: Perceive a chronological survey of the major writers and their writings that have contributed to the development of English literature.
		CO2: Chronologically fix authors, texts, movements' ideologies and literary practices.
		CO3: Acquire knowledge about the three basic genres of literature namely poetry, prose and drama.
	PART-III IDC-3 HISTORY OF ENGLISH	CO4: Develop a view of how English literature has evolved through the centuries, establishing a perceptic of its Literary History.
9	19BAEID3 LITERATURE	CO5: Understand texts in their cultural and historical contexts.
		CO1: Develop Communication Skills as well as Positive Personality Traits.
		CO2: Acquire the Language Suitable for Technical Communication.
	PART – IV SBC – I PERSONALITY DEVELOPMENT	CO3: Inculcate the Habit of Regular Reading and Writing.
		CO4: Acquaint students with the major practices in effective personality development.
10	19BAESB1 NT	CO5: Experience the language to co-relate their classroom learning with their outside work.
		CO1: Comprehend the production and perception of speech sounds.
		CO2: Understand model of language structures.
	PART-III CORE-7 ELEMENTS OF	CO3: Identify and familiarize the concepts in Phonetics and linguistics.
		CO4: Analyse the system of language.
11	19BAE401 PHONETICS	CO5: Apply the intonation of speech through practical usage.
		CO1: Appreciate the language and thought process of Indian writers.masteryand skill over the differer periods of time.

		CO2: Analyse and interpret the masterpieces of Indian Writing in English.
	PART-III	
	CORE-8	CO3: Understand the rich cultural diversity and aesthetics in Indian Literature.
	INDIAN	CO4: Interpret the diverse texts and distinguish their salient features.
	WRITING IN	
12	19BAE402 ENGLISH	CO5: Highlights the glory of Indian writings in English.
		CO1: Outline the literary views of criticism.
		CO2: Identify the role of writers responsible for the Triumph of Classicism.
		CO3: Compare the critical aspects of writers belonging to the period of Romantic Revolt.
	PART-III-IDC	CO4: Demonstrate the period of Victorian compromise and writers belonging to this period.
	4- LITERARY	
13	19BAEID4 CRITICISM	CO5: Illustrate the importance of the age of interrogation.
		CO1: Practice the unique qualities of professional rhetoric and writing style.
		CO2: Exploredifferent formats of technically using the language.
		CO3: Make the students communicate effectively.
	PART-IV-SBC	
	II -	CO4: Use variety of reading strategies to foster comprehension
	TECHNICAL	
14	19BAESB4 ENGLISH	CO5: Demonstrate the ability to revise and to discover errors and correct them.
		CO1: Gain an insight into the age of Shakespeare.
		CO2: Understand the themes and techniques of Shakespearean plays.

		CO3: Analyze Shakespeare's works critically.
	PART III- CORE 9- SHAKESPEA	CO4: Comprehend the ideas and themes of Shakespearean sonnets.
15	19BAE501 RE	CO5: Increase their familiarity with Shakespearean language and expression
		CO1: Identify the key features of poetry.
		CO2: Understand characteristic forms or styles of expressions.
		CO3: Comprehend to know the life, culture, language and society through literature.
	PART III - CORE 10- AMERICAN	CO4: Analyze the themes and techniques of the novel.
16	19BAE502 LITERATURE	CO5: Develop the analysis in critical writing and critical thinking skills through interpretations.
		CO1: Identify the genres and characteristics of children's literature
		CO2 : Interpret how cultural values and belief systems impact children's literature.
	PART III- CORE 11- CHILDREN	CO3: Understand the global socio-cultural concept of the child as exemplified in children's literature.
	LITERATURE	CO4: Analyze the themes and techniques of One Act Play.
17	19BAE503 IN ENGLISH	CO5: Apply the appropriate formal conventions and critical thinking skills while writing about children's literature.
		CO1: Comprehend the theme, structure and style in poetry.
		CO2: Identify the key features of prose.
	PART III -	CO3: Understand new literatures the respective customs, habits, culture, language, socio-economic and political background of different countries.

	CORE 12- NEW LITERATURE	CO4: Analyze the themes and techniques of the novel.
18	19BAE504 S	CO5: Apply the appropriate formal writing of post-colonialism and its related literary issues.
		CO1: Enhance the accurate usage of English Language Teaching. CO2: Understand the approaches and methods in language acquisition and development to support the English Language Teaching.
	PART III - CORE 13- ENGLISH LANGUAGE	CO3: Comprehend the proficiency in one or more creative literary forms.
19	19BAE505 TEACHING	CO4: Focus on intended abilities, knowledge, values and attitudes. CO5: Apply competence in the four modes of literacy: writing, speaking, reading and listening.
		CO1: Introduce students to the basics of journalism.
		CO2: Enable the students to understand news values and qualities of reporters.
	PART III - CORE 14- JOURNALISM AND MASS COMMUNICA	CO3: Enhance the technical terms and jargons of Journalism.
20	19BAE601 TION	CO4: Understand different types of media- their characteristics, merits and demerits. CO5: Practice the students on various media programme formats.
		CO1: Understand the ethical responsibilities CO2: Identify the various cultural and moral values associated with the texts which help them to become ethical communicators.
	PART III - CORE 15- ETHICS IN	CO3: Comprehend the social, historical and political backgrounds of the world of the
		CO4: Discern the ethics of life, culture language and society through literature

21 19BAE602	ENGLISH LITERATURE	CO5: Enhance Reading skills and understand how to represent their experience and ideas critically creatively, and persuasively through the medium of language.
		CO1: Examine the issues discussed in the text in the socio-historic and cultural context.
	PART III - CORE 16- WORLD LITERATURE	CO2: Learn to read, analyze and appreciate poetry critically in the field of world literature
	IN ENGLISH TRANSLATIO	CO3: Validate the set of criteria used in the translation of Anton, Marquez& Turgenev
22 19BAE603	N	CO4: Distinguish the elements and patterns of translation in Kalidasa's Shakuntala CO5: Demonstrate a broad understanding of literatures in English and translation in creation and interpretation of literary works
		CO1: Understand the difference between paragraph writing and creative writing.
		CO2: Apply literary techniques for developing themes and creative sentences.
	PART III- CORE 17- PROJECT – CREATIVE	CO3: Expose creative ideas in creating advertisements, slogans, caption, word games & puzzles.
23 19BAE604	WRITING	CO4: Familiarize the critical thinking in writing diverse genres
		CO5: Enhance the originality in writing poetry, story & one act play.
		CO1: Develop and improve the accuracy in the usage of grammar
		CO2: Enhance knowledge, skills and opinion sharing around human communication.
	PART III - ELECTIVE II- ENGLISH FOR COMPETITIV	CO3: Learn the nuance of writing and its techniques.
		CO4: Understand the purpose of LSRW skills.
24 19BAEE05	E EXAMS	CO5: Hone the vocabulary skills.

PART III - ELECTIVE III- INTENSIVE STUDY OF AN AUTHOR - RABINDRAN ATH 25 19BAEE07 TAGORE	CO1: Provide knowledge about the Tagore's contribution to the literary world. CO2: Identify the themes and universal characters depicted by Tagore. CO3: Compare the existing social scenario with the prose work of Tagore. CO4: Analyse diverse literary characteristics and themes of Muktdadhara. CO5: Appreciate Tagore's contribution of literary ideas with the reality of life.
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M.Sc. (ELECTRONICS AND COMMUNICATION SYSTEMS)

Have the ability to pursue inter-departmental research.
Understand the importance of critical thinking, social interaction, effective citizenship, ethics, environment and sustainability.

Acquire a holistic professional carrier
To build the necessary competencies and creativity and prepare them to undertake entrepreneurship as desirable and feasible career option.

PROGRAMME OUTCOME (PO): Able to work effectively as a team member and leader in an ever changing professional environment.
Apply the knowledge of technical fundamentals to solve problems in the domain of Electronics and communication field.

Analyze and interpret the experimental results and consolidate the information to provide valid outcomes.

PROGRAMME SPECIFIC

OUTCOME (PSO):

Course

S.No	Code	Course Name	Course Outcome
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Design and develop innovative electronics products in such a way to meet out the societal needs.

CO1: Understand the material properties for micro fabrication.

		CO2:Understand and analyze the fabrication techniques.
		CO3:Able to design and analyze the micro system products.
	Core 1 :	CO4:Design, apply and analyze the DC Drives.
1	22MES101 MEMS and Power Drives	CO5:Design, apply and analyze the AC Drives.
		CO1:Understand and recognize the embedded systems and its classifications.
		CO2:Able to aware of the communication devices and network devices related to the embedded systems.
	Core 2 :	CO3:Understand and apply the concept of inter process communications and synchronization techniques.
2	22MES102 Embedded and Real Time Operating Systems	CO4:Able to design a real time embedded systems using the concepts of RTOS.
		CO5:Analyze the types of RTOS and its functions.
		CO1:Understand the open loop and closed loop Control system components.
		CO2:Analyze characteristics of physical systems with Mathematical model.
		CO3:Understand the behavior of closed loop systems both in time domain and frequency domain.
		CO4:Analyze the performance of systems with tools such as Root Locus, Routh Hurwitz.
3	22MES103 Core 3: Control Systems	CO5:Apply the logic of Control System based on Root Locus method.
		CO1:Able to understand the performance of Microwave tubes.
		CO2:Design and analyze the pulse communication systems.

4	22MES104 s Core 4 : Electronic and Fiber Optic Communication	CO3:Understand the concepts of optical fibers and connections. CO4:Apply the concept of optical sources in fiber optics communication.. CO5:Design and analyze the optical networks.
		CO1:Design op-amp circuits to perform arithmetic operations CO2:Analyze and design linear and non-linear applications using op-amps. CO3:Analyze and design oscillators
5	22MESP01 Core Practical 1: Power Electronics	CO4:Choose appropriate A/D and D/A converters for signal processing applications. CO5:Analyze and design filters using functional ICs.
		CO1:Compare the performance of AM, FM and PM schemes with reference to SNR CO2:Understand noise as a random process and its effect on communication receivers CO3:Evaluate the performance of PCM in a digital communication system
6	22MESP02 Core Practical 2 : Electronic Communication	CO4:Evaluate the performance of DPCM and DM in a digital communication system CO5:Identify source coding and channel coding schemes for a given communication link
		CO1:Understand the PIC microcontroller architecture. CO2:Understand and apply the instructions in PIC microcontroller, Timer and CCP modules. CO3:Understand the concept of serial communication techniques with PIC microcontroller.

CO4: Analyze the interrupts and functions in PIC microcontroller.

Core 5: PIC

7 22MES201 Microcontroller CO5: Able to design and apply the PIC microcontroller applications.

CO1: Understand the basic CMOS circuits and technology.

CO2: Understand and apply the combinational and sequential logic design.

CO3: Understand and apply the basic concepts of VHDL

Core 6: VLSI
and VHDL

CO4: Analyze the Behavioral Modeling.

8 22MES202 Programming CO5: Apply and analyze Data Flow & Structural Modeling

CO1: Provide practical hands-on experience with microprocessor applications and interfacing techniques.

CO2: Understand PIC microprocessor kit, knowledge of PIC instruction set and ability to utilize it in assembly language programming.

CO3: Understand real mode Memory addressing and ability to interface various devices to the microprocessor.

Core Practical
3: PIC

CO4: To familiarize with the assembly level programming

9 22MESP03 Microcontroller CO5: Design circuits for various applications using microcontrollers

CO1: Understand the basic FPGA concepts.

CO2: Understand and apply the digital techniques.

CO3: Understand and apply the sequential logic design.

Core Practical

CO4: Analyze the Combinational logic design

4: VHDL

10 22MESP04 Programming

CO5: Apply and analyze the digital system using Hardware Description Language.

CO1: Analyze the properties of signals and systems.

CO2: Apply Laplace transform, Fourier transform, Z transform and DTFT in signal analysis.

CO3: Apply and analyze continuous time LTI systems using Fourier and Laplace Transforms.

Elective I :
Signals and
Systems

11 22MESE01

CO4: Apply and analyze discrete time LTI systems using Z transform and DTFT.

CO5: Analyze the LTI systems in the Time domain and various Transform domains.

CO1: Understand the basics of Ad hoc networks and Wireless Sensor Networks.

CO2: Apply and identify the suitable routing algorithm based on the network and user requirements.

Elective I :
Adhoc and
Wireless
Sensor
Networks

12 22MESE02

CO3: Apply the knowledge to identify appropriate physical and MAC layer protocols.

CO4: Understand the transport layer and security issues possible in Ad hoc and sensor networks.

CO5: Understand and apply the OS used in Wireless Sensor Networks and build basic modules.

CO1: Understand the characteristics of transmission lines and its losses.

CO2: Understand and Apply the standing wave ratio and input impedance in high frequency transmission lines.

CO3: Analyze impedance matching by stubs using smith charts.

Elective I :
Transmission
Lines and RF
Systems

13 22MESE03

CO4: Analyze the characteristics of TE and TM waves.

CO5: Able to design and evaluate a RF transceiver system for wireless communication.

		CO1: Demonstrate the ability to identify, formulate and solve digital system design problems.
		CO2: To design and conduct experiments, analyze and interpret digital data
		CO3: Demonstrate the skills to use modern engineering tools
	Core Practical	
	5: Digital	CO4: To analyze the problems using Proteus
	System Design	
14	22MESP05	using Proteus CO5: Able to design and evaluate a digital system design
		CO1: Understand the discrete time signals and systems.
		CO2: Analyze and designing the IIR filters.
	Core 7:	CO3: Analyze and designing the FIR filters.
	Discrete Time	
	Systems and	CO4: Analysing and applying the finite word length effects on digital filters.
	Signal	
15	21MES301	Processing CO5: Analysing the DSP processor architecture
		CO1: Remember the architecture of processors and understand the architecture and features of ARM processor.
		CO2: Understand instructions set of ARM processor and also understand the functionalities of NAND flash controllers.
		CO3: Analysing the operations of timers and peripherals such as LCD ADC and touch screen.
		CO4: Analysing and applying the concept of serial data transfer using various modules present in ARM processor.
	Core 8: ARM	
	Processor and	
16	21MES302	Its Applications CO5: Analysing camera interface audio interface and applying their usage in real world .
		CO1: Understand the data network fundamentals.

		CO2: Analysing the serial communication to the data network.
		CO3:Analysing the HART protocol and its communication.
	Core 9: Industrial Data	CO4:Analysing and applying the MOD bus and Profi bus protocol structures on communication.
17	21MES303	Communication CO5:Analysing the industrial Ethernet and wireless communication on industries.
		CO1: Understand the addressing modes of DSP.
		CO2: Analysing the arithmetic operations of DSP.
	Core Practical 6: DSP	CO3:Analysing the DFT and FFT computations.
	Programming using	CO4:Analysing the convolution and Correlations of discrete signals.
18	21MESP06	MATLAB CO5:Analysing and designing of IIR and FIR filters.
		CO1: Remembering the concepts of LED ,Relay and keyboard and writing programs using Arm processo to interface these devices.
		CO2:Understanding the concept of DAC and ADC used in ARM processor
	Core Practical	CO3: Analysing serial communication and stepper motor interface through ARM processor.
	7 : ARM	CO4: Analysing CCP modules and configuring the module to generate PWM output .
	Processor	
19	21MESP07	Programming CO5:Understanding and analysing the concepts of multitasking and priority scheduling .
		CO1: Remember the concepts of MATLAB with Matrix commands, variables and functions fo computations.
		CO2: To understand the concepts of I/O Statements and MATLAB graphics.

		CO3: Analyze the various control structures for MATLAB programming.
	Elective II: MATLAB	CO4: Analyze the Simulink software model for MATLAB computations.
20	21MESE04	Programming
		CO5: Apply the MATLAB concepts for Digital Signal Processing Applications.
		CO1: Understand the architecture of software defined radios.
		CO2: To understand the functions of software defined radio functions.
	Elective II: Cognitive Radio	CO3: Analyze the various techniques on Cognitive radio.
21	21MESE05	
		CO4: Analyze the architecture of Cognitive radio.
		CO5: Analyze the next generation wireless networks.
		CO1: To understand the image fundamentals and mathematical transforms necessary for image Processing.
		CO2: To understand the image segmentation and representation techniques.
	Elective II: Advanced Digital Image Processing	CO3: Analyze the feature extraction techniques on images.
22	21MESE06	
		CO4: Analyze the image fusion techniques.
		CO5: To analyze the constraints in image processing when dealing with 3D data.
		CO1: To understand the PLC and SCADA architecture.
		CO2: To understand the PLC Programming.
		CO3: Analyze the PLC Programming Languages.

	Core 10 : PLC and Distributed	CO4: Analyze the architecture of distributed control system.
23	21MES401 Control System	CO5: To analyze and apply the advancement techniques in automation.
		CO1: Remember the concepts of Light waves and Solid state physics for Optical devices.
		CO2: To understand the concepts display devices and LASER's and its applications.
		CO3: Analyze the Photo devices performance for Opto electronics.
	Core 11 : Optoelectronic	CO4: Analyze the various Opto electronic modulators.
24	21MES402 Devices	CO5: Apply the Opto electronic integrated circuits for various applications.
		CO1: To understand the classification of nano structures.
		CO2: To analyze the nano materials and its characterization.
		CO3: Analyze the various microscopy techniques for nano technology.
	Elective III: Nano Technology and	CO4: Analyze the nano electronics.
25	21MESE07 Applications	CO5: Analyze the nano devices and applications.
		CO1: Understand the properties of MOS switches.
		CO2: To understand the concepts data conversion circuits.
		CO3: Analyze the Precision techniques on analog IC Design.
	Elective III:	CO4: Analyze the various ADC/DAC architectures.

26 21MESE08	CMOS Analog IC Design	CO5: Analyze the sampling converters on analog IC design.
		CO1: To Remember the basic concepts of IoT.
		CO2: To Understand the IoT Domain Specifics.
		CO3: Understand the concepts of IoT Devices Management.
27 21MESE09	Elective III: Internet of Things (IoT)	CO4: Analyze the embedded and cloud usages in IoT.
		CO5: Apply the IoT tools in various applications.
		Co1:Apply relevant knowledge and skills, within the main area, to a given problem.
		Co2:Get to know the hardware and software co design issues and testing methodology of related Project.
		Co3:Work in multidisciplinary environments
		Co4:Reflect on, evaluate critically analyze and assess own result with and others scientific results.
28 21MESPR1	Project: Project and Viva-Voce	Co5:To report and present the findings of the study conducted in the preferred domain and to able write Technical report/thesis.

MBA

The ability to apply and understand the business acumen gained in practice solves managerial issues.
The ability to communicate and negotiate effectively and upgrade their professional and managerial skills in their workplace.

The ability to take up challenging assignments even in a dynamically unstable environment.

To understand one's own ability to set achievable targets and complete them.

To acquire in-depth knowledge of business management and entrepreneurship embedded with ethics and a fulfilling business career pursue lifelong learning.

Demonstrate the knowledge of management science to solve complex corporate problems using limited resources

Identify business opportunities, design and implement innovations in work space. Function effectively as an individual, and as a member or leader in diverse teams and in multidisciplinary settings.

Adapt and develop research acumen

PROGRAMME OUTCOME (PO): To have a fulfilling business career and pursue lifelong learning.
To guide and channelize the transformation process of every management graduate by providing in-depth knowledge of business management and entrepreneurship embedded with ethics and a sense of social responsibility.
To ignite a passion for multidisciplinary approach for problem solving, critical analysis and decision making by giving due importance for lateral thinking so that management graduates see things from a perspective.
To have an understanding of the global arena and competitive environment which are bringing paramount changes in business practices.
To give in-depth knowledge in the areas of generic electives (ie) marketing, finance, human resource, supply chain and logistics management, operation and business analytics.
To demonstrate leadership and team membership skills which are ardently required for effective implementation and coordination of organizational activities and gain communication skills to communicate

PROGRAMME SPECIFIC
OUTCOME (PSO):
Course

S.No	Code	Course Name	Course Outcome
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Best knowledge about the environment that impact the business decision

Awareness about important concept and terminology used in business

Understand the value and Do's and Don'ts of Ethics in business environment

Better understand the concepts that used in international perspective

	Business	
1	21MBA301 Environment	<p>Understand the role and functions of regulatory agencies</p> <p>Understand the Basics of Law of Contract.</p> <p>Understand the Functionality of the Business through Partnership Act and Sales of good.</p> <p>Know about the Agency, Principal Parties Involved to the Other</p> <p>Better Awareness about the Law that Pertained to Company Act.</p>
	Legal Aspects	
2	21MBA302 of Business	<p>Understand Various Terminology and Techniques that are used in Business.</p> <p>Know the Brands and challenges and opportunities around it</p> <p>Understand the Brand positioning methods</p> <p>An insight about Brand Image.</p> <p>Awareness about Brand architecture and Brand portfolio management</p>
	21MBAEA Brand	
3	1 Management	<p>Understand the Brand challenges in global aspects.</p> <p>An overview about Retail Industry</p> <p>Understand the evolution in retail industry</p> <p>An insights about setting of retail stores</p> <p>understand the concepts of pricing in retail industry</p>
	21MBAEA Retail	
4	2 Management	<p>Understand the mean of communication and supply of goods in retailing</p>

Insight into the Role of Integrated Marketing Communication and its Challenges

Awareness on Advertising Campaigns, Gain an overall Understanding about Advertising Agencies

Knowledge about Advertising Budget Preparations and its Research

21MBAEA Integrated Marketing Communication
5 3 In Depth Knowledge on Indian Mode of Advertising with International Advertising and Promotion
Understanding on Emerging Concepts and Issues in Marketing Communications.

Understand the Foundation of Recruitment, Concepts of Job Analysis and Job Design

Aware of the Various Sources of Recruitment

Understand the Concepts of Selection, Types of Tests in Selection, Interviewing Hurdles

Understand the Concepts of Induction, Socialization Tactics, Trends in Recruitment

21MBAEB Recruitment and Selection
6 1 Prepare the CV, Interview Etiquettes

Understand about industries and composition of industry

Awareness about the problems of employee in industrial settings

Understand the basics of law that pertained to wages

21MBAEB Labour Welfare and Industrial Relations
7 2 Understand the various retirement benefits for employee
Understand the rule that pertained to special service industry establishment

An outline of Performance Management System and its Challenges

		Understand about the Performance Managing System and the Performance Planning Process in an Organization
		Explore and Apply Innovative ways of Rewarding Employee by Appraising and Monitoring the Employees
21MBAEB 8 3	Performance Management	Identify the Issues in the Employees and Perform Counseling and Implementation of the Changes. Analyze Critical Ethical Issues Relating to Performance Management and the Future Role of HR Professionals in Performance Management
		To Understand Investment Alternatives Choice and Evaluation and its Risk and Return Concepts.
		To Get Depth Knowledge about Securities Markets and Methods of Floating New Issues through IPO
		To Know the Factors Influencing Fundamental Analysis and Applied Valuation Techniques.
21MBAEC 9 1	Security Analysis and Portfolio Management	This Unit will Help to Know the Factors Influencing Technical Analysis through Charting Methods. On Completion of the Course, the Students are Expected to be Familiar with Different Concepts of Portfolio Management. They would Understand How to Develop an Efficient Portfolio based Upon Risk and Return The students will have enhanced awareness of Indian Financial System & Non Banking Financial Companies (NBFCs), Financial Inclusion, Micro finance and its implication on the economy. This course
		Compare Hire-Purchasing and Leasing concepts.
		This unit will help to know about the Process of Mutual Funds and RBI Guidelines.
21MBAEC 10 2	Advanced Financial Services	This course will help the students meaningfully participate in the Stages of Venture Capital and its risk. This unit will help to know the Reasons, Difference between Mergers & Acquisition Understanding of the tax, its nature and characteristics, and the basic concepts in tax, analyzing tax evasion tax avoidance and tax planning. Understanding the various sources of income for an individual and applying the concept to calculate the total income and tax liability of an individual

		Understanding the sources of income for HUF, Firms, AOP etc., and the tax structure for various persons.
21MBAEC 11 3	Taxation	Understanding the computation of corporate tax and its implications, MAT Understanding the concept of GST, its implications on revenue on central and state governments, and collection of CGST and SGST
		Understand the concepts of Supply chain management
		Students Aware about the strategic issues in supply chain management
		Understand the basics of supply chain network performance
21MBAED 12 1	Supply Chain Management	The students understand the Introduction to transportation in supply chain management Understand the ERP implementation and its design. Ability to analyze and make decisions that impact the performance of the firm as well as the entire Logistic system.
		Analyze the strengths and weaknesses of various transportation modes and warehousing materials handling To develop the strategies that can be taken to find the best paths to route vehicles to deliver and collect goods at multiple stops To develop the strategies that can be taken to manage inventories, including deciding the timing and quantities for replenishments without hurting the level of product availability along with costs of warehousing and To use computing software to solve various logistics decision-making problems, including inventory policies and vehicle routing.
21MBAED 13 2	Logistics Management	The students understand the Analytics in supply chain management Students Aware about the Strategic fit in supply chain Understand the basics of bullwhip effect and time series analysis

21MBAED 14 3	Supply Chain Analytics	<p>The students understand the Multi echelon inventory management</p> <p>Understand the Network design in supply chain</p> <p>To inculcate Research interest among students.</p> <p>Demonstrate a systematic understanding of project contents.</p> <p>Enable students to implement Project Planning in their Industrial In-plant Training Project work.</p>
21MBAPR 15 1	Summer Internship	<p>Apply the theoretical concepts to solve industrial problems with multidisciplinary approach.</p> <p>Understand methodologies and professional way of documentation and communication.</p> <p>To gain hands on experience related to the field. Be acquainted with the contemporary issues, latest trends and thereby innovate new ideas and solutions to existing problems. Ability to comprehend and write effective project reports in multidisciplinary environment in the context of changing technologies.</p>
21MBAPR 16 2	Major Project & Viva voce)	<p>Demonstrate an ability to present and defend their research work to a panel of experts.</p> <p>Understand methodologies and professional way of documentation and communication.</p> <p>Understand the basic concepts of Entrepreneurship</p> <p>Understand the scope of entrepreneurship</p> <p>understand the project selection procedure</p>
	Entrepreneurshi	Awareness about the financial institution in rendering financial services

	p and Project	
17	21MBA401 Management	<p>Awareness about schemes that available for retriving sick industry</p> <p>The students are able to learn the fundamentals of strategic management using the case method. To understand the fundamental principles of and relationships among business functions such as: finance human resources, marketing, and operations.</p> <p>understand the relationships of business to individuals, other organizations, government and society</p> <p>Analyze the integrative nature of strategic management & Create strategy -implementation plans. opportunity to develop skills for strategic thinking and analysis, leadership and design strategic contr system.</p>
18	21MBA402 Strategic Management	<p>Demonstrate an extended understanding of the unique characteristics and challenges of services marketing.</p> <p>Demonstrate knowledge of the extended marketing mix for services Demonstrate integrative knowledge of marketing issues associated with service productivity, perceive quality, customer satisfaction and loyalty.</p>
19	21MBAEA Services Marketing	<p>Prepare, communicate and justify marketing mixes and information systems for service-based organizations.</p> <p>Critically appraise the way in which this theory can be practically applied in the service sector. Understand what social media is, the various channels through which it operates and its role in marketin strategy Use principles of consumer and social psychology to develop social media content and campaigns th: engage consumers Draw on knowledge about word-of-mouth marketing to develop effective approaches for propagating idea messages, products, and behaviors across social networks</p>
20	21MBAEA Digital and Social Media Marketing	<p>Measure the impact of a social media campaign in terms of a specific marketing objective</p> <p>Implement the camping strategy</p>

		The students understand the Agricultural marketing concepts.
		Students Aware about the marketing agencies & institutions.
		Understand the basics of rural marketing concepts and environment.
21MBAEA 21 6	Agricultural and Rural Marketing	The students understand the various product strategies.
		Understand the distribution strategy and distribution channels.
		Understand about the self-concepts & Strategies.
		Know about the concepts of human personality, assertive training and emotional intelligence of people.
		Understand the concept of personal change, Creativity and innovation.
21MBAEB 22 4	Personal Growth and Interpersonal Effectiveness	Understanding the concepts & Application of Transactional Analysis tools and techniques.
		Get to know about counseling and its methods and counseling in organizations
		Best knowledge about the coaching and mentoring as performance management & its phases.
		Awareness about key roles and responsibilities of mentor/coach
		Understand the value successful coach and foundation for successful performance
		Better understand the models of coaching and mentoring.
21MBAEB 23 5	Coaching and Mentoring	Understand the role of Performance development program in team performance.
		Adequate Knowledge in Modern Theory concept

		Capable to do planning for productivity
		Clear Knowledge in Investment Approach
21MBAEB 24 6	Human Resource Accounting	In depth knowledge in HR Accounting concepts and Managements Trained to use HRA Software to do accounting and auditing Help to understand Indian Banking system and structure in India. This unit focused Banker and customer relationship, Obligation. Help to know the Banking Technology as MICR, Cheque Transaction, ECS, EFT, NEFT & RTGS.
21MBAEC 25 4	Principles and Practices of Banking	How Asset Liability Management (ALM) in banks are working. To know the International banking Techniques in Facilities for Exporters and Importer. Risk identification and Risk management techniques in Life & Health. This unit focused Property and liability risk Management. Help to know the Risk Management of Auto owners and Home owners' policy coverage.
21MBAEC 26 5	Risk Management & Insurance	This unit focused Health Insurance, Annuities and Employees benefit. Recent scenario in Life and General insurance industry in India, IRDA. Understand the empirical and theoretical implications of the financial investments. Apply portfolio theory and evaluate the risk and returns associated with individual and collective stocks.

		Evaluate stock price using fundamental analysis and technical analysis tools.
21MBAEC 27 6	Wealth Management	To learn valuation of equity, debt and mutual funds. Analyze the fundamental drivers of diversification as an investment strategy for investors and create optimal portfolio.
		The students understand the Preliminary for starting export business.
		Students Aware about the Different categories of exports.
		Understand the basics of Export documentation.
21MBAED 28 4	Export Trade and Documentation	The students understand the Introduction to export finance. Understand the Pre shipment finance and post shipment finance To understand how Logistics, Supply Chain, Operations, Channels of Distribution fit in to various types of Business viz., Manufacturing, Service and Project. Analyze Warehouse Management and, other functions in Logistics fits into Logistics & Supply Chain Management. To understand how Managers, take decisions for inventory control and how they are taken in warehouse management functional area.
21MBAED 29 5	Warehouse Management	Examine systematically the planning mechanisms in materials handling. Best knowledge about modern warehousing methods and its advantages. Make basic use of Enterprise software, and its role in integrating business functions Examine systematically the planning mechanisms in an enterprise, and identify all components in an ERP system and the relationships among the components Design the ERP implementation strategies.

30 6	Enterprise 21MBAED Resource Planning	<p>Analyze the strategic options for ERP identification and adoption.</p> <p>Create reengineered business processes for successful ERP implementation</p>
		<p>Understand the role of women in society.</p> <p>Foster entrepreneurship and innovation among women. Offer idea to business journey with the help of financial aids in a structured way through the various government schemes.</p>
31 2	21MBAVA Women and Leadership	<p>Impart actionable awareness regarding the systematic process of developing leadership in women.</p> <p>Stimulate the managerial, financial and interpersonal skills through the role models and success stories.</p>
		<p>Understanding the concept of business, forms of business</p> <p>Knowing the concept of management, Evolution of management, functions of a manager.</p>
32 21MBA101	Business Organisation and Management	<p>Understanding the concept of planning, process of planning, forms of organisational structure. Understanding staffing, recruitment and selection process, Knowing the leadership qualities, application of case studies. Know about controlling techniques, the concept of organisational change and development, application of case studies.</p>
		<p>Understanding of dynamics of OB, Opportunities of OB</p> <p>Know the concept of intelligence, awareness of personality types, application of psychometric tests.</p> <p>Knowing the concept of perception, attitude formation and learning theories. Understanding individual behavior, dynamics of groups and effective team building, conflicting situation Ethical issues in organisational culture.</p>

33 21MBA102	Organizational Behavior	Awareness on Organisational change, organisational politics, coping with stress and the motivational theories.
		<p>Understand the relative importance of Managerial Economics Introduce the microeconomic concepts - demand, pricing, cost determination, entry into and exit from markets, price - output decisions. Evaluate features of different kinds of markets & discuss on cost price behavior in each structures, Be equipped with the various tools for analyzing pricing strategies.</p>
34 21MBA103	Managerial Economics	<p>Understand the concept of profits and analysis of profits. Know about Macro economic variables and its real time impact on economy and government policies.</p>
		<p>Apply the comprehensive treatment of accounting principles, techniques and practices Infer the circumstances providing for increased exposure to final accoutns and depreciation preventative internal control measures</p>
35 21MBA104	Accounting for managers	<p>Develop Budget and analyse Cost variances. Basic concepts of Management Accounting & Interpret the financial statements and report the findings. enable students will acquire the knowledge of Mathematics of finance and Mathematica concepts c</p>
		<p>Differentiation and integration Analyze real world scenarios and determine the appropriate type of analytical problem solving techniques t utilize</p>
36 21MBA105	Quantitative Methods for Management	<p>Gain knowldege on statistical concepts of correlation and regression equations for business Make the students to understand the concepts of Time series , Trend analysis and Index numbers fo Business analysis Develop the knowledge of statistical analysis for research in order to write the interpretation and solving th hypothesis</p>

		Understand the basics of communication process
		Gain knowledge about the non-verbal communication techniques
		Understand the various types of business letters
		Develop job application letter, bio data, preparation for Interview
37	21MBASB Executive communication	Basic concepts of meetings, agenda preparation and communications in an organisation Improving their conceptual skills, understanding and application of tools and techniques of operation management in business practices in real time. Understanding and application of factors in the design of effective operating systems based on location and layout.
		Understand the concept of material management & its strategies
		Apply Quality control Techniques to attain productivity optimization
38	21MBA201 Operations Management	Analyze the finances of individual corporations both in terms of their performance and capital requirements
		Gain a solid understanding of key marketing concepts and skills. Develop the students' skills in applying the analytic perspectives, buyer behaviour decision tools, and concepts of marketing to decisions involving segmentation, targeting and positioning. Develop an understanding of the underlying concepts, strategies and the issues involved in product life cycle new product development Develop strong marketing promotion plans and persuasively communicate your recommendations with rationale
39	21MBA202 Marketing Management	Understand the channel of distribution to reach the target audience. Recent Marketing terms. Understand both the theoretical and practical role of financial management in the business firm

		Apply financial management concepts and tools to the Problems faced by a manager in Budgeting decisions Understand the outside influences of economic and political factors on various sources of funds with the costs
		Justify the contemporary financial management strategies which are preferred to specific projects
40	21MBA203	Financial Management Analyze the finances of individual corporations both in terms of their performance and capital requirements
		Develop a meaningful understanding of HRM theory, functions and practices. Apply Human Resource Planning, Recruitment and Selection and skills across various types o organizations.
		Know about the Interview process, Induction and Orientation, Training techniques.
41	21MBA204	Human Resource Management Develop understanding on performance appraisal and its methods Educate on the process of handling disputes, laws pertaining to Employees welfare and employment in the Organization.
		Understand the basic framework of research process
		To formulate the hypothesis for business problems ,know the scaling techniques.
		Understand the sampling techniques, preparation of questionnaire and coding techniques
42	21MBA205	Research Methods for Management Apply various parametric tests to test hypothesis Develop necessary critical thinking skills in order to formaulate the report writing enable students will acquire the knowledge of Operations research and Resource Management Analyze real world problems and decision making for Transpotation Problems and Assignment Problems

Quantitative
43 21MBA206 Techniques

Gain knowledge on Game theory and Dominance Property for business management

Make the students to understand the concepts of Inventory Models Probability Inventory Models concept.

Develop the knowledge of Simulation and Queuing Theory for decision making.

Able to demonstrate the basic working knowledge in Microsoft excel

Able to use in-built functions in Excel for simple decision making, perform investment analysis using Excel. Gain practical knowledge to work in Exce. This will give you a great set of tools which you will be able to apply in many different situations, limited only by your imagination

Advanced
21MBASB Excel for
44 2 Managers

Understand data keeping, applying functions to the data stores, and data analysis. Knowing Conditional formatting, Data validation, Paste special, Pivot table and charts, Excel tables, Exce charts and graphs can be placed in the next level of the organisation.

Understanding personal ethics with help to overcome real problems in life.

Evaluate situations and apply ethical principles in professional life.

Give importance to the core purpose of the institution.

Apply workplace etiquettes in different environments,

21MBAVA Professional
45 1 Ethics

Create awareness among employees rights privacy and cyber crime

M.Sc Mathematics

Have the ability to pursue inter-departmental research.

Understand the importance of critical thinking, social interaction, effective citizenship, ethics, environment and sustainability.

Acquire a holistic professional carrier
 To build the necessary competencies and creativity and prepare them to undertake entrepreneurship as desirable and feasible career option.

Able to work effectively as a team member and leader in an ever changing professional environment.
 Equip the student with skills to analyze problems, formulate an hypothesis, evaluate and validate results, and draw reasonable conclusions there of.

Prepare students for pursuing research or careers in industry in Mathematical sciences and allied fields

Imbibe effective scientific and/or technical communication in both oral and writing.
 Apply the underlying unifying structures of mathematics (i.e. sets, relations and functions, logical structure and the relationships among them

PROGRAMME OUTCOME (PO): Students will be able to define fundamental concepts, Principles and theories of science
 Identify and analyze the real life problems using the principles of Mathematics and apply the Mathematic concepts in all the fields of learning including higher research.
 Able to crack competitive exam, lectureship and fellowship exams approved by UGC Like CSIR-NET and SET.
 Develop the thinking capability that meets the specified needs with appropriate consideration to meet the needs of the society, work and communicate effective teams.
 Provides the knowledge of wide range of Mathematical techniques and application of Mathematic methods/tools in other scientific and engineering domains.

PROGRAMME SPECIFIC

OUTCOME (PSO):

Course

S.No Code Course Name Course Outcome

Assist students in preparing (personal guidance, books) for competitive exams

Remember the groups, ring, homomorphism and automorphism of fields.

Understand the concept of Euclidean ring, polynomial rings, factorization and ideal theory

		Apply Gauss lemma, Einstein criterion for irreducibility of polynomials over rational
		Analyze different fields, finite fields, extension of fields, Galois theory
21MMA10		
1 1	Algebra	Evaluate Trace, Transpose and understand Hermitian, unitary and normal Transformations
		Remember the techniques of the basic stepping stones to contemporary research.
		Understanding the sequences of functions which are point wise convergent and uniform convergent
		Apply the basic results to classical theorems in advanced real analysis.
		Analyze the concept of Lebesgue measure which is later used in developing the theory of Lebesgue integration
21MMA10		
2 2	Real Analysis	Apply Lebesgue measure to get the theory of Riemann integration
		Remember the second order linear equations with ordinary points
		Understand the concept of Systems of first order equations
		Analyze linear systems with constant coefficients
	Ordinary	Apply Successive approximation.
21MMA10	Differential	
3 3	Equations	Evaluate Elementary linear and non linear oscillations
		Remember Numerical differentiation and integration
		Apply some methods for solving system of linear and non- linear equations
		Understand the Solution of ordinary differential equations

21MMA10 4 4	Numerical Methods	<p>Analyze Boundary value problems and characteristic value problems</p> <p>Evaluate partial differential equations</p> <p>Remember divisibility and about primes</p> <p>Apply the concept of congruence</p> <p>Understand the Solution of ordinary differential equations</p>
21MMA10 5 5	Number Theory	<p>Analyze Quadratic reciprocity</p> <p>Evaluate Arithmetic functions</p> <p>Remember Limits and continuity</p> <p>Understand Complex Integration</p> <p>Evaluate definite integrals using residuals</p>
21MMA20 6 1	Complex Analysis	<p>Apply the concept of partial fractions</p> <p>Analyze Riemann Mapping on Polygons and rectangle</p> <p>Remember Second order equations in two independent variables</p> <p>Understand Cauchy problem, Homogeneous wave equation and Non-homogeneous wave equation</p> <p>Evaluate vibrating string problem</p>
	Partial	<p>Apply the concept of Maximum and minimum principles</p>

21MMA 7 202	Differential Equations	Analyze the delta function and Green's function
		Remember energy and momentum
		Understand calculus of variation
		Evaluate the examples of Lagrange's equations of motion
21MMA20 8 3	Mechanics	Apply the concept of separability
		Analyze the transformations
		Remember vector operation
		Understand arrays and matrices
		Apply the Conditions and loops
21MMA20 9 4	R- Programming Theory	Analyze Writing and saving data objects to file in R
		Evaluate Mean, Median, Mode, S.D, Correlation, regression and Time series analysis using R- Graphs
		Understand arrays and matrices
		Learn the commands to create a 3x3 matrix
		Apply R- program to draw R- Pie, Bar charts
21MMAPO 10 1	R- Programming- Practical	Analyze Time series using data objects in R
		Evaluate Mean, Median, Mode, S.D, Correlation, regression and Time series analysis using R- Graphs

		Remember shortest path using Dijkstra's algorithm
		Apply the concept of Fractional cut Method.
		Analyze simulation modeling and Generation of random numbers
21MMAE0	Advanced Operations	Understand Dynamic Programming
11 1	Research	Evaluate quadratic Programming
		Remember Electromagnetism – Fundamental Laws
		Understand the Stress tensor – Navier-stokes equations
		Evaluate Alfven waves in incompressible MHD.
21MMAE0	Magneto hydro	Analyze incompressible viscous flows in the presence of magnetic field
12 2	Dynamics	Apply the concept of Stability and gravitational instability.
		Remember Mathematical Neuron Model
		Analyze Perceptron Architectures
		Understand Hebb Rule, Pseudo inverse Rule and Variations of Hebbian Learning
21MMAE0	Neural	Apply the concept of Taylor series
13 3	Networks	Evaluate Directional Derivatives
		Apply the concept of continuous functions

		Understand about the Topological spaces.
		Remember closed sets and limit points.
		Analyze Connectedness and Compactness.
19MMA30		
14	1	Topology
		Know the concept of countability and separation Axioms.
		Apply the concept of boundary conditions
		Understand about the Two dimensional functions
		Remember energy equation, rate of change of circulation.
		Analyze Couette flow, Plane Poiseuille flow
19MMA30		
15	2	Fluid Dynamics
		Know the Boundary layer concept
		Apply the concept of Subgraphs and Trees
		Understand about the Connectivity and Hamilton cycles
		Remember Matchings and Edge colourings
		Analyze Independent sets, Cliques and Vertex Colourings
19MMA30		
16	3	Graph Theory
		Know the types of Planar Graphs and Directed Graphs
		Apply the concept of Moments.
		Understand about the Characteristic Functions.

		Remember distribution functions.
19MMA30	Mathematical	Analyze Limit Theorems.
17 4	Statistics	Evaluate the different types of tests.
		Apply the concept of Arc Length, Tangent, Osculation plane
		Understand about the Evolutes and Involutives
		Remember Elementary theory of surface
19MMAE0	Differential	Analyze Second fundamental form
18 4	Geometry	Evaluate the Geodesic curvature and Geodesics.
		Apply the concept of Encryption and Secrecy
		Understand about the Square free factorization
		Remember Modular arithmetic
19MMAE0		Analyze Pseudo random numbers and sequences
19 5	Cryptography	Evaluate Public key cryptography
		Apply the concept of Automata
		Understand about the Regular Set
		Remember converting NFA to DFA

19MMAE0 20 6	Automata Theory	<p>Analyze Ambiguous context free language</p> <p>Know the Ambiguous context free language</p> <p>Apply the concept of combining HTML and PHP Code on a Single Page</p> <p>Understand about the Arrays</p> <p>Remember Operators and Expressions</p> <p>Analyze with Strings, Dates, and Time Formatting Strings with PHP</p>
19MMAED 21 1	Web Designing	<p>Know Working with Cookies</p> <p>Apply the concept of linear transformations.</p> <p>Understand about Hilbert spaces.</p> <p>Remember operators.</p>
21MMA40 22 1	Functional Analysis	<p>Analyze determinants and the spectrum of an operator.</p> <p>Know the Regular and singular elements.</p> <p>Apply the concept of Fourier sine and cosine Transform</p> <p>Understand about the Hankel transforms</p> <p>Analyze Integral equation</p> <p>Know the Applications of integral equation</p>

23	2	21MMA40 Mathematical Methods	Remember Calculus of Variation
			Apply the concept of TEX and its offspring
			Understand about Command names and arguments
			Remember Document Layout and Organization
			Analyze Printing literal text
24	3	19MMASB Latex(Theory)	Know the main elements of math mode
			Apply the concept of Software evolution and Oriented Programming
			Understand about the Tokens, Expressions and Control structure
			Remember the functions in C++
			Analyze Classes and Objects
25	4	19MMASB C++ Programming (Theory)	Know the Operators Overloading
			Apply the concept of Fuzzy Union and Fuzzy Intersection
			Understand about fuzzy relations
			Remember fuzzy measures
			Analyze types of uncertainty
26	7	19MMAE0 Fuzzy sets and Fuzzy Logic	Know the Applications of fuzzy logic in different fields.

Apply the concept of Stochastic Approach.

Understand about States and chains.

Remember Poisson processes and their Extensions.

19MMAE0 Stochastic
27 8 Differential
Equation

Analyze Renewal process

Know the Queueing system

Apply the concept of linearization

Understand about Amplitude and frequency estimates

Remember Perturbation Methods

19MMAE0 Non Linear
28 9 Differential
Equation

Analyze general linear system and Floquet theory

Know the Stability of linear systems

M.Com

Acquire strong knowledge inputs in Commerce which caters the Local, National and Global requirements
Acquire skill set to enter into a career either in Academics, Research or alternatively in other professional
areas of Commerce and Finance such as Taxation, Human Resources, Marketing and Financial services

Inculcate the knowledge of business and the techniques of managing the business.

Enhance the analytical skills and capability of making business decisions

Select and apply modern statistical tools for effective decision making

Strengthen the skill components and inculcate entrepreneurial capacity

Function effectively as an individual and as a member of teams in an organisation.

Inculcate sense of ethical responsibility and contribute to the society through active research

Acquire contemporary knowledge of business that will enhance the skills for lifelong learning

PROGRAMME OUTCOME (PO): Develop professional knowledge and interpersonal skills that fosters holistic development
Impart the students with higher level knowledge and understanding of contemporary trends in Commerce
Business Finance, Laws and regulations, Business operations, Capital Budgeting and Investment Decisions
Prepare the students to apply statistical methods for analyzing Business data, Investments and Portfolio
Management
Enables the students to demonstrate progressive learning of various tax issues related to individuals and corporate.

Develop the skill to manage portfolios and make appropriate decision in the area of portfolio management

PROGRAMME SPECIFIC

OUTCOME (PSO):

Course

Demonstrate the ability to plan and undertake independent research in chosen discipline

S.No Code Course Name Course Outcome

Prepare final accounts of companies

Provide knowledge on amalgamation , absorption and external reconstruction

Prepare the accounts of holding companies and gain idea of liquidation of companies

Apply accounts of banking company and insurance company

21MCM10 Corporate
1 1 Accounting

Develop the knowledge on Human Resource Accounting, Government Account and Responsibility Account

		Interpret HR Policies
	Human Resource Management	Summarize the various functioning of HR Department
		Design tools for Performance Appraisal
		Demonstrate appropriate HR Competencies at the workplace.
21MCM10		Gain knowledge on emerging trends in HR
2 2		Understand the basic concepts of International Business and factors affecting international Trade
		Learn the various international business environment and various risks in international business Gains the knowledge regarding EXIM policy, Balance Of Payments and the problems faced in international trade
		Understand the basic procedure for conducting an Export business
21MCM10	International Business	Gain the knowledge of conducting an Import business
3 3		Understand the basics of banking law and the rights of the customers.
		Familiarize with the instruments in bank and its practical application.
		Gain Knowledge on the various advancements in banking sector and the tools of online banking.
	Legal Aspects in Banking and Insurance	Understand essential elements of contracts and its application in insurance industry
21MCM10		Understand the nature of regulation in the Insurance industry.
4 4		Identify the perception and significance of business environment and realize the types of environment impact of environment of business and public responsibilities of business

Classify the different economic systems, economic planning and develop the new industrial policy.

Recognize and describe the Globalization and FDI and know the social ethics of the Business.
Categorize the different technological environment and to develop the awareness of Constitution environment.

21MCM10 Business
5 5 Environment

Classify the different technological and management technology and the impact of technology in business.

Define and learn the importance of Managerial Economics in Decision Making in Business.
Understand the Supply and its Determinants, Production functions and Cobb-Douglas function, Cost concepts, Economies and diseconomies of scale.
Distinguish the types of Competition in Market Structure such as Perfect, Monopoly, Monopolistic and Oligopoly competitions, Methods of Pricing and Government intervention in Pricing.
Understand the meaning of Profit and Profit Policies besides Planning, Cost volume profit analysis and Investment analysis

21MCM10 Managerial
6 6 Economics

Educate the importance of National income and Business Cycle, inflation and deflation, Balance of payments, Monetary and Fiscal policies.
Understand the fundamentals of cost accounting, cost sheet preparation, Reconciliation of Cost and Financial Accounts

Gains the knowledge on various stock levels and material issuing techniques.

Demonstrate wage calculation and overheads absorption techniques

Apply the Process costing, Job costing, Service costing

21MCM20 Advanced Cost
7 1 Accounting

Apply Marginal costing techniques and cost audit.

Recognize the essential principles underlying the Indirect Taxation Statutes
Identify and analyze the technical aspects under disparate relevant statutes related to indirect taxation and to know the kinds of GST.

		Scrutinize the concepts used in indirect tax, assessment, powers, duties, offences, penalties etc. and categories of GST exemptions
21MCM20	Indirect	Discriminate the registration procedure and to analyse the Goods and Service Tax System
8 2	Taxation	Examine Practice the application of GST and Mechanism of GST, Implementation of GST. Understand the nature, scope and importance of Marketing, marketing environment and its components and market segmentation Gain knowledge on production, production decisions, product mix and factors affecting the price determination
		Demonstrate the various channels of the distribution
21MCM20	Marketing	Aware of promotional techniques and prepare advertising budget
9 3	Management	Acquire the knowledge regarding social, ethical and legal aspects of marketing
		Define and identify the concepts of Financial Management
		Understand Cost of Capital and Capital Budgeting techniques for strategic Financial Decision Making Understand types of leverages and analyze in-depth principles of capital structure theories like net income approach, net operating income approach and MM hypothesis.
21MCM20	Financial	Explain the concept of leasing and various dividend theories
10 4	Management	Familiarize with various types of management- working capital, cash, receivables Management.
		Remember the Scope and significance of Business research
		Understand the concepts of sampling techniques
		Evaluate correlation and regression

11	5	21MCM20	Business Research Methods	<p>Apply the test of Hypothesis</p> <p>Analyze the test of significance for attributes</p> <p>Identify the Foreign Exchange Markets and its exchange rates</p> <p>Examine the future contract, Forward contract, Exchange trade and OTC options</p> <p>Determine the supply and Demand of Exchange rate and modern theories of Exchange rates</p>
12	1	21MCME0	Foreign Exchange Management	<p>Analyse the exchange rate and strategies for exposure management techniques</p> <p>Interpret different forms of taxes and treatment of foreign exchange gains and losses. Gain the knowledge regarding Export Promotions in India, Government and State Trading Corporations and State Export</p> <p>Learn the Concept of role of RBI in Export finance , role of Commercial Banks, EXIM Bank and ECGC</p> <p>Understand the concept of GATT, WTO Functions , TRIMS and TRIPS objectives</p>
13	2	21MCME0	Institutional Facilitating International Trade	<p>Able to Gain the knowledge of IMF objectives Resource facilities , SDR and World Bank</p> <p>Learn the Concept regarding IDA objectives, IFC objectives, features , ADB and UNCTAD functions</p> <p>Understand the growing importance of Logistics management</p> <p>Understand fundamental supply chain management concepts.</p> <p>Apply knowledge to evaluate and manage an effective supply chain.</p>
			Logistics and	Understand the foundational role of logistics as it relates to transportation and warehousing.

21MCME0	Supply Chain		
14 3	Management	To align the management of a supply chain with corporate goals and strategies.	
		Evaluate the concepts and schedule of tax rates, tax liability, penalties and prosecution	
		Know the total taxable income of an assessee	
		Apply and practice the computation of total income.	
		Know the Determination of Cost of Acquisition and Deduction of Tax at Source.	
19MCM30			
15 1	Direct Taxes	Analyse the Computation of Tax Liability, deductions , E-Filing & its Procedures.	
		Know the scope and importance of investment.	
		Understand the patterns of investment in different schemes.	
		Acquire knowledge about the various stock exchanges and Securities market.	
		Gather knowledge about valuation risk and returns in securities.	
19MCM30	Investment		
16 2	Management	Acquire complete knowledge about portfolio management.	
		Know the importance and concepts of Industrial Relations.	
		Know the impact and causes of Industrial Conflicts.	
		Know the concepts and education of Labour Welfare Measures	
	Labour Law		
19MCM30	And Industrial	Know the categories of Labour Welfare Act.	
17 3	Relations	Acquire a complete knowledge about Employee benefit schemes.	

			Acquire knowledge about e-commerce applications.
			Gain skills about online payments and models of e-commerce applications.
			Know the importance and role of Management information systems.
			Understand the concepts and categories of Information System.
18	4	19MCM30 E-Commerce and MIS	Gain knowledge about functional Management and business process.
			To train the students to attain basic practical skills
			To train the students to attain practical skill essential for modern office MS-WORD.
			To train the students to attain practical skill essential for modern office MS-EXCEL.
			To train the students to attain practical skill essential for modern office MS – POWERPOINT.
19	1	19MCMP0 Computer Application In Business	To train the students to attain practical skill essential for MS - ACCESS
			Know and understand the concepts of investment Environment.
			Understand the methodology of Industrial analysis.
			Know the risk and returns of management of Securities.
			Understand the impact of Portfolio theory.
20	4	19MCME0 Security Analysis And Portfolio Management	Evaluate the revision of Portfolio and Time Weighted Returns.
			Understand the concept of various security analysis and its risk, return

		Know the factors influencing technical analysis and its tools.
		Know the market analysis, NSE and BSE
19MCME0 21 5	Fundamental And Technical Analysis	Analyse the various theory and its use in Investments. Provide technical to get an overall idea of the trends in moving average related to commodity market Provide knowledge the concept of derivative market Give knowledge about the index movement Nifty and Sensex Understand the forward market and future market
19MCME0 22 6	Futures And Options	Analyse the Hedging ,Speculation and arbitrage in commodity market. Evaluation of commodity market in India and other countries. Acquire a basic and clear understanding of philosophical ethics Understand the principles of moral decision-making in global business. Identify the trade-offs that face an ethical manager.
19MCMED 23 1	Business Ethics	Understand how competitive advantage maps on to corporate social responsibility. Acquire ethical frameworks, so as to attack moral problems critically and comprehensively. Understanding the basics of Cost Audit and maintenance of Cost Audit Inculcate knowledge about Cost Audit Report.

		Understand the rules and procedure of cost accounting.
19MCMAC	Cost Audit and Operational Audit	<p>Know the techniques and operations of Audit</p> <p>Learn the various types of Audit.</p> <p>Identify differences between various forms of accounting—Financial, Managerial and Cost and the role of Management Accountant.</p>
24 2		<p>Understand various financial statement Analysis.</p> <p>Evaluate ratio analysis for measuring the financial performance.</p>
19MCM40	Management Accounting	<p>Analyze the fund flow and cash flow statements.</p> <p>Understand about Different Budgets and budgetary control.</p>
25 1		<p>Understand the concept of strategic management and formulation of strategic management.</p> <p>Know about the Competitive Advantage of Nations and its implication on Indian Business.</p> <p>Understand about the Mergers and Acquisitions, Takeovers, Joint Ventures, Diversification, Turnaround Liquidation</p>
19MCM40	Strategic Management	<p>Gather knowledge regarding various Strategy Evaluation and Control.</p> <p>Know about Corporate Social Responsibility in India.</p> <p>Know about Entrepreneur ial Environment</p> <p>Know about Role of Consultancy Organizations in Promoting Entrepreneurs.</p> <p>Understand about preparation of project report and presentation</p>
26 2		

	Entrepreneurship And Small Business Management	Understand about Small Business Paths and Plans. Provide Knowledge about Role of Marketing and Finance in the Small business.
19MCME0 27 7		Acquire knowledge about the concepts and approaches of micro finance Analyse financial statement of managing financial performance and the role of subsidies know about the market evaluation and pricing of financial service Understand the governance and constitutions of MFI and its intermediaries
19MCME0 28 8	Micro Finance Management	Study the emerging issues and women empowerment in micro finance. Know the concepts and Trends in Retailing Acquire knowledge about segmentation in retailing Understand about retail merchandising management
19MCME0 29 9	Retail Marketing Management	Know about development and growth of e –tailing Understand about Global retail markets retailing and Global retailing strategic.

M.Sc(Computer Science)

- Get core competence in various subjects of Computer Science.
- Recognize the organizational need and to engage themselves in continuing professional development.
- Apply knowledge of computing and mathematics appropriate to the discipline.

Design, implement, and evaluate a computational system to meet the desired needs within realist constraints.

Apply mathematical foundations, algorithmic principles, and computer science theory in the modeling and design of computational systems in a way that demonstrates comprehension of the tradeoffs involved in

Function effectively on teams to accomplish shared computing design, evaluation, or implementation goals.

Recognize the need for and ability to engage in continuing professional development.

Use appropriate techniques, skills, and tools necessary for computing practice.

Identify, formulate, develop solutions to computational challenges. Understand professional, ethical, legal, security, and social issues and responsibilities for the computing profession.

PROGRAMME OUTCOME (PO): Apply design and development principles in the construction of software systems of varying complexity

Able to handle any kind of software development

Able to maintain the software network to handle the technological challenges.

Able to develop strong analytical skills, critical thinking and experimental skills.

Able to solving on Computational problems, system networking knowledge, use of technology.

To Enhance skills and adapt new computing technologies for attaining professional excellence and carrying out research

PROGRAMME SPECIFIC
OUTCOME (PSO):

Course

S.No	Code	Course Name	Course Outcome
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CO1 Identify the space and time complexity of various algorithms.

CO2 Analyze the algorithms using divide and conquer methodology.

CO3 Evaluate the algorithms using dynamic programming mechanism.

	Core 1:Design and Analysis of	CO4 Apply the backtracking methodology to solve the problems.
1	21MSC101 Algorithms	CO5 Know the basic concepts of NP-Hard and NP-Complex Problem and construct it.
		CO1 Describe and explain the fundamental components of a computer operating system. CO2 Define, restate, discuss, and explain the policies for scheduling, deadlocks, memory management synchronization, system calls, and file systems.
	Core 2:Advanced Operating	CO3 Describe and extrapolate the interactions among the various components of computing systems. CO4 Design and construct the following OS components: System calls, Schedulers, Memory management systems, Virtual Memory and Paging systems.
2	21MSC102 Systems	CO5 Measure, evaluate, and compare OS components through instrumentation for performance analysis. CO1 Develop understanding on various kinds of research, objectives of doing research, research process and research designs.
		CO2 Understand and describing the method of collecting data and sampling it. CO3 Have adequate knowledge on measurement & scaling techniques as well as the quantitative data analysis.
	Core 3:Research	CO4 Have basic awareness of data analysis-and hypothesis testing procedures.
3	21MSC103 Methodology	CO5 Formulate and writing practices in research report.
		CO1 Able to know the evolution of object model
		CO2 Applying the different notations for classes and objects.
	Core 4:Object Oriented	CO3 Analyzing the important concepts like polymorphism, inheritance and virtual functions using classes. CO4 Able to construct the standard template library classes.

4	21MSC104 Design	Analysis and	CO5 Evaluate the STL algorithms using string and numeric classes CO1 Able to understand the different stages of compiler as well as the working principles of lexical analysis. CO2 To evaluate the mechanism of different types of parsing techniques. CO3 To realize the techniques for creating intermediate code generation.
5	21MSC105	Core 5:Principles of Compiler Design	CO4 Identify the issues at the time of designing code generator CO5 Analyze the optimization techniques to the principle sources of code generation. CO1 Understand basic Structure of the C-Programming, declaration and usage of variable. CO2 Create the C programs using operators.
6	21MSCP01	Core Practical 1:Object Oriented Analysis and Design Lab	CO3 Exercise the conditional and iterative statements to write C programs. CO4 Designing the C programs using Pointers to access arrays, strings and functions. CO5 Develop the C programs using pointers and allocate memory using dynamic memory management functions.
7	21MSC201	Core 6:Advanced Software Engineering	CO1 Ability to analyze, design, verify, validate, implement, apply, and maintain software systems CO2 Ability to design a system, component, or process to meet desired needs within realistic constraints CO3 Ability to identify, formulate, and solve engineering problems CO4 An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice CO5 Ability to work in one or more significant application domains

		CO1 To apply the various standards on data communication.
		CO2 To understand the functionality of datagram delivery and error.
	Core 7:Networking and Communication	CO3 Ability to analyze the various layers of different protocols. CO4 Choose key Internet applications and their protocols, and apply to develop their own applications (e.g Client Server applications, Web Services) using the sockets API. CO5 To develop effective communication mechanisms using techniques like online connecti
8	21MSC202	Technologies establishment, queuing theory, recovery, etc.
		CO1 Ability to understand enterprise edition of java and database connectivity
		CO2 Grasp the knowledge about servlet activities
		CO3 Understanding the ability to apply java to develop web pages
	Core 8:Advanced Java	CO4 Explore programming techniques of Java beans and swing
9	21MSC203	Programming CO5 Know about Java Persistence Query Language CO1 Understand the multi-tier architecture of web-based enterprise applications using Enterprise JavaBean (EJB).
		CO2 Learn to access database through Java programs, using Java Data Base Connectivity.
	Core Practical 2:Advanced Java Programming	CO3 Create dynamic web pages, using Servlets and JSP. CO4 Evaluate a full set of UI widgets and other components, including windows, menus, buttons checkboxes, text fields, scrollbars and scrolling lists, using Abstract Windowing Toolkit (AWT) & Swings. CO5 Applying the Map Java classes and object associations to relational database tables with Hibernate
10	21MSCP02	Lab mapping files
		CO1 Ability to understand the distributed system and available resources.

		CO2 Identify the important issues in threads and clusters.
		CO3 Finding the importance of naming and clusters in distributed systems.
	Elective I : Distributed	CO4 Examine the reasons for getting faults and making reliable communications.
11	21MSCE01 Computing	CO5 Applying the core concepts of distributed systems by which several machines orchestrate to correctl solve problems in an efficient, reliable and scalable way.
		CO1 Able to appreciate the necessity of grid computing and thus its evaluation
		CO2 Ability to understand the architecture of grid computing
		CO3 To Understand and explain the key concepts of open architecture
		CO4 To identify the resource selection for Grid environment
	Elective I :Grid	CO5 To understand the recent versions of Globus toolkit
12	21MSCE02 Computing	CO1 Describe and explain the fundamental components of a wireless communication.
		CO2 Define, discuss, and explain the Wireless Transmission: Frequencies for radio transmission Regulations, Antennas, Signal Propagation, Path loss of radio signals, Additional signal propagation effects.
		CO3 Describe and extrapolate the interactions among the various components of computing systems.
		CO4 Design and construct the following Satellite Systems: Basics ,GEO, LEO, MEO, Routing Localization, Handover, Examples
	Elective I :Mobile	CO5 Wireless LAN, Infrared vs radio transmission ,Infrastructure and ad-hoc network , IEEE 802.11 ,System Protocol Architecture, Physical Layer, Medium Access Control Layer, MAC Management
13	21MSCE03 Computing	CO1 Describe the Python language syntax including control statements, loops and functions to writ programs for a wide variety problem in mathematics, science, and games.
		CO2 Examine the core data structures like lists, dictionaries, tuples and sets in Python to store, process anc sort the data.

14 21MSCP03 Lab Core Practical 3:Python Programming

CO3 Interpret the concepts of Object-oriented programming as used in Python using encapsulation, polymorphism and inheritance.

CO4 Discover the capabilities of Python regular expression for data verification and utilize matrices for building performance efficient Python programs.

CO5 Identify the external modules for creating and writing data to excel files and inspect the file operator to navigate the file systems.

15 19MSC301 INTERNET OF THINGS

CO 1: Understand the technology and standards relating to IoT.

CO 2: Understand IoT in real world perspective

CO 3: Analyze basic protocols of IoT.

CO 4: Understand the critical parts of the ICT ecosystem required to mainstream IoT.

CO 5: Acquire ideas about IoT in cloud computing strategies

16 19MSC302 INFORMATION SECURITY

CO 1: Describe what Information Security and Authentication is.

CO 2: Appreciate the value of Biometrics

CO 3: Understand the concepts of Cryptography and Steganography.

CO 4: The importance of Network Security and Firewalls

CO 1: Understand the functionalities of various data warehousing components

CO 2: Know about data mining analogies, effective and methodologies.

CO 3: Analyze the various data mining techniques such as classical, clustering and next generation techniques in detail.

	DATA MINING AND WAREHOUSI	CO 4: Describe the range of techniques for designing data mining systems for CRM applications
17	19MSC303 NG	CO 5: Aware of using text mining technologies and products
		CO 1: Understand the technology and standards relating to server side scripting languages
		CO 2: Understand the fundamentals of XML with data design
		CO 3: Know the basics of JavaScript and JQuery scripting language
	WEB TECHNOLOG	CO 4: Understand the basics of PHP scripting language with database connectivity
18	19MSC304 Y	
		CO 1: Analyze a web page and identify its elements and attributes.
		CO 2: Create web pages using XHTML and Cascading Style Sheets
		CO 3: Build dynamic web pages using JavaScript (Client side programming).
	PRACTICAL 3: WEB TECHNOLOG	CO 4: Create XML documents and Schemas
19	19MSCP03 Y LAB	CO 5: Analyze given assignment to select sustainable web development and design methodology
		CO 1: Gain knowledge and awareness of the basic principles and concepts of biology, computer science and mathematics
		CO 2: The students will be able to describe the contents and properties of the most important bioinformatic databases, perform text- and sequence-based.
		CO 3: searches, and analyze and discuss the results in light of molecular biological knowledge.
	ELECTIVE II:	CO 4: The students will be able to explain the major steps in pairwise and multiple sequence alignment
		explain the principle for, and execute pairwise sequence alignment by dynamic programming

	BIOINFORMA	
20	19MSCE04 TICS	CO 5: The students will be able to predict the secondary and tertiary structures of protein sequences CO 1: Understand basic knowledge of fuzzy sets and fuzzy logic. CO 2: Provide an emphasis on the differences and similarities between fuzzy sets and classical sets theories
	ELECTIVE II: NEURAL NETWORKS AND FUZZY	CO 3: Apply basic fuzzy inference and approximate reasoning CO 4: Understand principles of neural networks.
21	19MSCE05 LOGIC	CO 5: Apply basic fuzzy system modelling method CO 1: Understand fundamentals of wireless communications CO 2: Analyze security, energy efficiency, mobility, scalability, and their unique characteristics in wireless networks CO 3: Demonstrate basic skills for cellular networks design
	ELECTIVE II: WIRELESS APPLICATION PROTOCOL	CO 4: Apply knowledge of TCP/IP extensions for mobile and wireless networking. CO 5: To compare and contrast multiple division techniques, mobile communication systems, and existing wireless networks
22	19MSCE06	CO 1: The students should be able to Know and understand the basics and fundamentals of digital image processing, such as digitization, sampling, quantization, and 2D-transforms. CO 2: Operate on images using the techniques of smoothing, sharpening and enhancement. CO 3: Understand the restoration concepts and filtering techniques. CO 4: Learn the basics of segmentation, features extraction, compression and recognition methods for color models.
	DIGITAL IMAGE PROCESSING	CO 5: They can understand the need for image transforms different types of image transforms and their properties
23	19MSC401	

CO 1: Technical foundation of cracking and ethical hacking
CO 2: Identify and analyze the stages an ethical hacker requires to take in order to compromise a target system.

CO 3: Identify tools and techniques to carry out a penetration testing.

ELECTIVE III: CO 4: Critically evaluate security techniques used to protect system and user data.

ETHICAL CO 5: Demonstrate systematic understanding of the concepts of security at the level of policy and strategy in a computer system.

24 19MSCE07 HACKING

CO 1: Demonstrate fundamental understanding of the history of artificial intelligence (AI) and its foundations

CO 2: Apply basic principles of AI in solutions that require problem solving, inference, perceptual knowledge representation, and learning.

CO 3: Demonstrate awareness and a fundamental understanding of various applications of AI techniques in intelligent agents, expert systems, artificial neural networks and other machine learning models.

ELECTIVE III: CO 4: Demonstrate proficiency developing applications in an 'AI language', expert system shell, or data mining tool.

ARTIFICIAL INTELLIGENCE

25 19MSCE08 CE

CO 5: Demonstrate proficiency in applying scientific method to models of machine learning

CO 1: Apply modern software testing processes in relation to software development and project management.

CO 2: Create test strategies and plans, design test cases, prioritize and execute them

CO 3: Manage incidents and risks within a project.

CO 4: Contribute to efficient delivery of software solutions and implement improvements in the software development processes.

ELECTIVE III: SOFTWARE TESTING

26 19MSCE09 TESTING

CO 5: To gain expertise in designing, implementation and development of computer based systems and IT processes.

COMMON COURSES

HINDI

Course

S.NO	Code	Course Name	Course Outcome
			To Acquire Proficiency in Language and Communication Skills
1	21LAHI01	HINDI I (For all I year UG Programmes)	To enable the students to be competent in job sector. To build Confidence and develop personality. To develop Oral communication in the language
2	21LAHI02	HINDI II (For all I year UG Programmes)	To develop human and cultural values. Functional Hindi is given more weightage to have access to Official Language.
3	19LAH IO3	HINDI III (Only for II B.Sc (Math), II B.Sc (Viscomm)& II BA (Eng))	Syllabi include different trends in literature to obtain advanced knowledge. Great personalities and their teachings are introduced to instill ethics and human values for personal development Functional Hindi specifically designed for Banking and Government sector to enhance employability. Develop confidence and leadership quality by taking part in Out campus programs
		HINDI IV (Only for II B.Sc (Math), II B.Sc (Viscomm)& II BA (Eng))	Classic works in Literature and parts from Epics are introduced to imbibe the knowledge of culture and history, at the same time help to inoculate Competency in job sector is enhanced through promotion of communication skills- both written and verbal.
4	19LAHI04	BA (Eng))	Develop confidence and leadership quality by taking part in Out campus programs

TAMIL

S.NO	Course Code	Course Name	Course Outcome
			CO1 :Developing Poetry Skills.
			CO2 :Recognizing Literary Skills.
			CO3 :Developing Creative Skills.
1	21LATA01	TAMIL-I (For all I year UG Programmes)	CO4 :Developing The Common Skills.
			CO5 :Application Training.
			CO1 :Knowing Sangam literature.
			CO2 :Realizing The Glory of Thrukkural.
			CO3 :Encouraging Books Reading.
2	21LATA02	TAMIL -II (For all I year UG Programmes)	CO4 :Knowing Folk literature.
			CO5 : Knowing Novel Growth.
			CO 1: Recognizing Literary Skills.
			CO 2: Developing Imagination Skills.
3	19LATA03	TAMIL - III (Only for II B.Sc (Math), II B.Sc (Viscom) & II BA (Eng))	CO 3: Promoting literacy.
			CO 4: Recognizing Dramatical Skills.
			CO 5: Recognizing the common good.

CO 1: Knowing the merits of the devotional movement.

CO 2: Develop the ability to read quickly and without error.

TAMIL IV

(Only for II

B.Sc (Math), II

B.Sc (Viscom)

CO 3: Knowing grammar.

CO 4: Develop discussion skills.

4 19LATA04 & II BA (Eng)) CO 5: Practice writing essays.

CO1. Other Language Students Know Tamil

CO2. Reading stories and learning virtue.

BASIC TAMIL

(Only for those

who have not

studied Tamil

upto their HSC

CO3. Knowing the traditional festivals of Tamils.

CO4. Knowing the object by looking at the picture.

5 19BTA001 level) CO5. Discussion

CO1. Developing Imaginary Skills.

ADVANCED

TAMIL

(Only for those

who have not

studied Tamil

upto their HSC

CO2. Promoting reading skills.

CO3. Knowledge of Sangam literature.

CO4. Developing employment skills.

6 19ATA001 level) CO5. Developing the ability to write letters and essays.

FRENCH

S.No	Course Code	Course Name	Course Outcome
			Basic level of Comprehension
		FRENCH - I (For all I year UG Programmes Except B.Sc (CS & HM))	Understanding of tenses Exploring of Language translation Identification of Number in French Developing sentence Formation
1	21LAFR01		Understanding of Formation of Questions
		FRENCH- II(For all I year UG Programmes Except B.Sc (Cs & HM))	Change of sentence in Negative Understanding Future Tense Gender Identification and Allocation
2	21LAFR02		Acquire Grammatical skill
		FRENCH -III (only for II B.Sc. (Maths), II B.Sc FRENCH -III (only for II B.SC (Maths), II B.Sc(Viscomm) & II BA (Eng))	Develops communications skills Acquire linguistic skills Develops communications skills
3	19LAFR03		Developed their intellectual, personal and professional abilities
4	19LAFR04		

MALAYALAM

Course			
S.No	Code	Course Name	Course Outcome
			To know the beauty of the coherence of Language and Literature.
		MALAYALA M -I (For all I year UG Programmes)	To demonstrate the awareness of evolution theory of language by varied culture.
1	21LAMY0 1 1		To explore literary elements Understand the social, historical and political backgrounds of the world of the novelists and short stor writers through the elaborate and allegorical descriptions in the prescribed novels.
		MALAYALA M -II (For all I year UG Programmes)	To gain knowledge in the development of literature from man's physical exploration to social an psychological journeys.
2	21LAMY0 2 2		To enhance the Reading skills and understand, how to represent their experience and ideas critically creatively, and influentially through the medium of language.
		MALAYALA M -III (Only for II B.Sc (Math), II B.Sc (Viscom) & II BA (Eng))	To understand and appreciate poetry as a literary art form. To enhance their own creativity.
3	19LAMY0 3 3		To facilitate their writing skills Conceptualize various types of drama viz. Tragedy, Comedy, Farce, Melodrama, Historical Plays through the prescribed texts and analyze the effect they create in the audience or readers.
		MALAYALA M -IV (Only for II B.Sc (Math), II B.Sc (Viscom) & II BA (Eng))	Interpret literary texts in Malayalam by nurturing and utilizing their ability to understand drama in a skilled knowledgeable, and ethical manner.
4	19LAMY0 4 4		Become well acquainted with the rhetorical aspect of Drama, historical contexts and psycho-social aspects.

PART II - ENGLISH

Course			
S.No	Code	Course Name	Course Outcome
			Identify a variety of forms and genres of poetry from diverse cultures and historic periods, such as haiku sonnets, ballads, dramatic monologues, free verse, etc.

- English I (For all UG Programmes) Relate the literary effect and content.
- 1 21ENG001 Evaluate a theatrical performance for its effective use of music, dance, or visual arts.
Recognize the rhythms, metrics and other musical aspects of poetry.
- English II (For all UG Programmes) Apply active and passive vocabulary.
- 2 21ENG002 Make use of role plays after studying the one act plays with its strategies.
English III
(only for II B.SC Analyze the critical judgments about Shakespeare's works and develop a literary interpretation.
(MATHS), II Understand the textual analyses of one of the greatest tragedies of Shakespeare
B.Sc(Viscomm)
- 3 19ENG003 & II BA (Eng)) Analyse and interpret the masterpieces of R.K.Narayan
Inculcate the communicative behavior among students.
- English – IV(only for II B.SC Introduce the language learning methods through literature.
(MATHS), II Enable the students to realize the various contexts of English for their best usage of the Language
B.Sc(Viscomm)
- 4 19ENG004 & II BA (Eng)) Understand the basics of grammar

PART IV COMMUNICATIVE ENGLISH

- PAKI IV-
COMMUNICATIVE ENGLISH
(For all II year UG Science)
- 1 19EDC001 Enhance the learner's communication skills.
Help the learners to develop their listening skill.
Steer conversations and influence people.

PART IV ENVIRONMENTAL STUDIES

PART IV -

ENVIRONMENTAL
STUDIES

(All I year UG

1 19UFCA01 programmes)

Explain conservation and management of natural resources like forest, water, air, mineral, etc.

Analyze interrelationships between living organisms and the environments in which they live.

Apply knowledge and understanding of theories in the field of Biodiversity.

PART IV VALUE EDUCATION

PART IV -

VALUE
EDUCATION

(All I year UG

1 19UFCA02 programmes)

To develop an understanding of values education strategies

To consider the relation between values and personal behaviour affecting the achievement of sustainable futures;

To reflect on your futures awareness, commitment and actions

ALLIED: MATHEMATICS

Course

S.No Code Course Name Course Outcome

Co1: Remember set theory concepts and to analyze the applications of business problems

21BBAA01

/

BUSINESS

CO2 : To understand the concepts of Matrices, its types and to solve simultaneous equations

21BACA01

MATHEMATICS AND

CO3: Analyze the measures of central tendency and to apply its concepts

STATISTICS

CO4: To Analyze the measures of dispersion and to apply its concepts

(BBA & BBA

1

CA)

CO5: To correlation, Regression and its properties to apply its concepts

CO1: Understand the meaning, scope, Models of Operations Research and create mathematical formulation of LPP to solve Graphical method

21BBAA02		CO2: To understand the concept of Transportation and Assignment problems and its type
/		
21BACA02	OPERATIONS	CO3: To analyze the decision making using the concept of Game theory
	RESEARCH	CO4: Understand the CPM , Network concepts and its Types
	(BBA & BBA	
2	CA)	CO5: To understand the concepts of PERT to find the probability of completion of projects
/	NUMERICAL	
21BITA01/	METHODS	Co1: To understand the system of linear algebraic equations and to analyze the various method
21BCTA01	AND	
/	STATISTICS	Co2: To understand and analyze concepts of Numerical Intepolation, Numerical Integration and its types
21BCAA01	(B.Sc.	Co3: Analyze the measures of central tendency and to apply its concepts
	Computer	
	Science, BCA,	Co4 : To analyze the measures of dispersion
	B.Sc. IT &	
3	B.Sc. CT)	Co5: To understand the meaning of correlation, Regression and its properties
21BSCA02		C0 1: To understand the concepts of set theory, fundamental product and duality principle
/		Co2: To understand and analyze concepts of mathematical logic, proportional calculus and predicat
21BCTA02	DISCRETE	calculus
/	MATHEMATI	
21BITA02	CS	Co3: Analyze types of relation and types of functions to solve
	(B.Sc.	Co4: To understanding the concept of formal languages, Grammar, finite state automata and to apply it:
	Computer	concepts
	Science, B.Sc.	Co5: To understand the meaning of Graph , Types of graphs , its basic theorems and to apply its concepts to
4	IT & B.Sc. CT)	solve
21BCCA03		Co1: Remember set theory concepts and to analyze the applications of business problems
/		
21BCSA03	BUSINESS	CO2: To understands the concepts of Matrices, its types and to solve simultaneous equations
/	MATHEMATI	

	/	MA THEMA T I I	
21BCIA03	CS		Co3: Apply the concepts of limits and differentiation in Business problems
	(B.Com.,		
	B.Com. CA,		Co4: To solve Gauss elimination , Gauss Jordon and to analyze various methods of numerical integration
	B.Com. CS &		
5	B.Com. IT)		Co5: To understand the concepts of Interpolation
21BCCA04			
/			Co1: To understand the meaning, scope of statistics and its basic concepts
21BCMA0			
4/	BUSINESS		Co2: Analyze the measures of central tendency and to apply its concepts
21BCIA04	STATISTICS		
	(B.Com.,		Co3: To analyze the measures of dispersion
	B.Com. CA,		Co4: To understand the meaning of correlation, Regression, types and its properties
	B.Com. CS &		Co5: To understand the concepts of Time series, Method of least squares and Index numbers. And to
6	B.Com. IT)		analyze its methods
			Co1: To create the formulation of LPP and to evaluate various methods of LPP namely Graphical
/			method, Simplex method and Big-M method
21BITA04/			
21BCAA02	OPERATIONS		CO2: To understand the concept of Transportation and Assignment problems and its type
/21BSCA0	RESEARCH		
3	(B.Sc.		CO3: To analyze the decision making using the concept of Game theory
	Computer		
	Science, BCA,		Co4: To analyze the concept of Queing Theory and its methods
	B.Sc. IT &		
7	B.Sc. CT)		CO5: To understand the concepts of PERT to find the probability of completion of projects

ALLIED: ACCOUNTS

COPURSE COURSE

S.NO CODE NAME COURSE OUTCOME

Acquired some knowledge about accounting

		Know about subsidiary books
	Business Accounting	Getting knowledge about branches of accounting
21BCAA03 (BCA & B.Sc. / Computer Science)	21BSCA04	Preparation of Accounts from incomplete records
1		Get some ideas about organisation Business and Account Model

DETAILS OF TOTAL COURSES

NO OF COURSES UNDER UG PROGRAMMES

SL. NO.	NAME OF THE PROGRAMME	NO. OF COURSES
1	B.B.A.	37
2	B.B.A. (CA)	37
3	B.Com.	37
4	B.Com. CS	38
5	B.Com. IT	38
6	B.Com. CA	39
7	B.Com. PA	31
8	B.Sc. ECS	36
9	B.Sc. CS	35

10	B.Sc. IT	36
11	B.Sc. CT	36
12	B.SC. MATHS	36
13	B.Sc. VISCOM	35
14	B.Sc. CDF	33
15	B.Sc. CS&HM	40
16	BCA	34
17	B.A. ENGLISH	25
	SUB TOTAL	603

NO OF COURSES UNDER PG PROGRAMMES

	M.Sc. ELECTRONICS AND COMMUNICATION	28
18		
19	M.Sc. MATHEMATICS	28
20	M.B.A.	45
21	M.Com.	29
22	M.Sc. COMPUTER SCIENCE	26
	SUB TOTAL	156

COMMON COURSES
SEPERATELY SHOWN 33
COMMON
COURSES

18	BBA / BBA-CA B.Com. / B.Com. CA /	23
19	B.Com. CS / B.Com. IT B.Com. CA / B.Com. IT/	1
20	B.Com. B.Com. CA / B.Com. IT/	1
21	B.Com. CS	2
22	B.Com. CA / B.Com.	1
23	B.Com. PA / B.Com.	1
24	B.Com. PA / B.Com. CA	1
25	B.Com. IT/ B.Com. CS B.Sc. CS / B.Sc. IT / B.Sc.	4
26	CT / BCA	1
27	B.Sc. IT / B.Sc. CT / BCA	2
28	B.Sc. CS / B.Sc. CT	1
29	B.Sc. CS / BCA	1
30	B.Sc. IT / B.Sc. CT	26
SUB TOTAL		65

TOTAL COURSES

857

