# VLB JANAKIAMMAL COLLEGE OF ARTS AND SCIENCE AUTONMOUS

## STUDENT PERFORMANCE AND LEARNING OUTCOMES

#### BBA

			Develop the knowledge skill and attitude to creativaly and evetamatically to calve the management and to the state of the
			Develop the knowledge, skill and attitude to creatively and systematically to solve the management problems and work effectively in modern business organizations
	ppoci	NAME OF COME (BO):	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.
	PROGI	RAMME OUTCOME (PO):	Analytical, logical and managerial skills with the technical aspects to resolve real world issues.
			The main objective of the programme is to understand the student about the business and people in the society.
			The programme intends to train the students to become competent enough for entry level management professionals.
			Graduates will be capable of making a positive contribution to business, trade and industry in the national and global context.
	PROGRAMM	ME SPECIFIC OUTCOME (PSO)	Graduates will be able to apply frameworks and tools to arrive at informed decisions in profession and practice, striking a balance between business and social dimensions.
			The programme provides the student to understand the basics of business, skill and variety of disciplines.
S.No	Course Code	Course Name	Course Outcome
			Understanding the concepts of management and administration
			know about various functions of management
1	18BBA101	PRINCIPLES OF MANAGEMENT	Acquired knowledge in MBO
			Getting knowledge about Management process
			Understand about Budgetary control and auditing in an organisation
			Acquired some knowledge about accounting
2	18BBA102	FINANCIAL ACCOUNTING	Know about subsidiary books
			Helps to Prepare final accounts
			Getting knowledge about branches of accounting
			Preparation of Accounts from incomplete records
	18BBA201		Clearly know about organisation and its functions
			Helps to know Perception and motivation concepts
3		ORGANIZATIONAL BEHAVIOUR	Know about different leadership styles
			Getting knowledge about group and managing conflicts
			Get some ideas about organisation climate and culture
			Helps to understand business firm
			Understand demand elasticity
4	18BBA202	BUSINESS ECONOMICS	Know about production functions
			Know about cost and revenue
			Understand different Pricing and structure
			Understanding Marketing
			Know about buyer behaviour
5	15BBA301	MARKETING MANAGEMENT	
			Get to know Products and its types
			Understand Pricing Policies
			Know about different advertising medias
			should have acquired knowledge about production management
_	1500 1000	PRODUCTION AND OPERATION	Understand Recruitment planning
6	15BBA302	MANAGEMENT	Know about Purchasing Procedures
			understanding inventory functions
			Know about ISO and AGMARK
			Understanding about information system
			Know the MIS concepts

7	18BBA303	MANAGEMENT INFORMATION SYSTEM	
	100071303	WILLIAM THE ORIGINATION STSTEM	Know about transaction of documents
			Understanding the Data base design and techniques
			Know about different Networking systems
			Understand about cost accounting
			Know about material control and FIFO ,LIFO
8	15BBA304	COST ACCOUNTING	Understand to know about systems of Wage payment
			Know about process of costing
			Understand the marginal cost
			Should have acquired knowledge about Tax
			Know about heads of income
9	18BBAID3	BUSINESS TAXATION	Understanding about computation of income
			Getting some knowledge about Capital gains
			Know about VAT,TNVAT
			The students should understand the key features of Multimedia techniques .
			To impact of the animation development for future applications.
10	18BBAED1	MULTIMEDIA AND ITS APPLICATIONS	To learn the animation graphics and working with drawing tools in flash.
			To Learn the animation development for future development of application.
			To Learn the animation development for future development of application.
			White the state of
			Understand the functions of HRM
11	15BBA401	HUMAN RESOURCE MANAGEMENT	Differentiate Job analysis and job descriptions
			Understand about employee welfare systems
			Know about wages and salary
			Know about Grievances
			Understand to know Research
12	15BBA402	RESEARCH METHODS FOR MANAGEMENT	Know the Hypothesis and types
12	15BBA402	RESEARCH METHODS FOR MANAGEMENT	Clear about sampling design
			Know about Test of significance
			Understand to write report
			Understand about finance functions
			Know about Capital, Equity, Debt and Preference Shares
13	15BBA403	MANAGEMENT ACCOUNTING	Understanding Capital budgeting
			Know about the capital structure
			Understand about Working capital Management
			Understand to know the consumer needs
			Getting to understand Consumer perception and Learning
14	15BBA404	CONSUMER BEHAVIOUR	Differentiate the groups
			acquired to know about family and its roles in decision making
			Aware about consumer protection act 1986
			To know about Law of contract
			Understand about law of agencies
15	15BBAID4	LEGAL ASPECTS OF BUSINESS	Know about sale of goods act
			Understand to know about companies act
			Understand about Meeting and winding up of companies
			Understand to know basic of office
I			Know about office environment and communication

16	15BBAA04	MODERN OFFICE MANAGEMENT	
10	IJBBAA04	MODERN OFFICE MANAGEMENT	Get some ideas about office correspondence and record management
			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
17	15BBA501	FINANCIAL MANAGEMENT	Understanding Capital budgeting
			Know about the capital structure
			Understand about Working capital Management
			Understand to know about new product development
			Know the concepts of brands
18	17BBA502	BRAND AND BUSINESS	Understand the brand positioning
			Get some ideas about relevance model
			Know about packing and labeling
			Getting knowledge about entrepreneur
		The The Photo I was a state of the photo I was a	Know about entrepreneurial motivation
19	15BBA503	ENTREPRENEURSHIP AND PROJECT MANAGEMENT	Understanding about Project and selection
			Know about preparing report
			Know about different financial assistance
			Understand about business ethics
			Know about ethical values
20	15BBA504	BUSINESS ETHICS AND CORPORATE GOVERNANCE	Understand About culture and ethical leadership
			Know about corporate governance
			Understand to Corporate social responsibility
			Understand about advertising and its functions
			Know about creativity of advertisement
21	15BBAE01	ADVERTISING AND SALES PROMOTION	Know different advertising media
			Clearly know about promotion mix
			Understand the sales promotion
			Know about world economy
			Understand about business environment
22	15BBA601	INTERNATIONAL BUSINESS MANAGEMENT	Understand international trade theories
			Know about strategies of international business
			Know about WTO
			Know about concepts of strategy
			Understand the environmental analysis
23	15BBA602	BUSINESS STRATEGY	Know about strategic decision framework
			Understand about role of top management
			Know about Core competencies
			Understand to know about risk and its classifications
			Know about life insurance and its principles
24	15BBA603	INSURANCE FOR BUSINESS PROCESS	Understand about general insurance and fire insurance
			Get some knowledge about marine insurance
			Know about Miscellaneous insurance and motor insurance
			Know about E-Commerce  Know about E-Commerce
1			ALION ROOM D'COMMINICO
			Understand about Internet consumer and market research

25	15BBA604	ECOMMERCE	Know about Advertisement in E-Commerce
			Get some clear knowledge about B2B in E-Commerce
			Know about Policies and Seller Protection in EC
			Understand about Event and event management
			Know about 5C s in Event marketing
26	26 15BBAE04 EVENT MARKETING	Know about event planning and team management	
		Understand about Marketing of events	
			Know about the future of event marketing
			Understand to know concept of training
			Know the different training methods
27	15BBAE09	TRAINING AND DEVELOPMENT	Understand the learning concepts
			Understand the different evaluation in training methods
			Understand to know about the environments

## BBA(BANKING)

			Develop the knowledge, skill and attitude to creatively and systematically to solve the management problems and work effectively in modern business organizations
			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.
PROGRAMME OUTCOME (PO):			Analytical, logical and managerial skills with the technical aspects to resolve real world issues.
			The main objective of the programme is to understand the student about the business and people in the society.
			The programme intends to train the students to become competent enough for entry level management professionals.
			Graduates with flair of self-employment will be able to initiate and build upon entrepreneurial ventures or demonstrate Intraprenuership for their employer organizations
	PROGRAMM	IE SPECIFIC OUTCOME (PSO):	To acquire required knowledge for practical banking operations.
			To acquire requires intowedge for practical outsing operations.  To prepare professional quality business documents and deliver a professional quality business presentation and to develop a global perspective towards various legal issues.
S.No	Course Code	Course Name	Course Outcome
			Understanding the concepts of management and administration
			know about various functions of management
1	18BAB101	PRINCIPLES OF MANAGEMENT	Acquired knowledge in MBO
			Getting knowledge about Management process
			Understand about Budgetary control and auditing in an organisation
			Acquired some knowledge about accounting
			Know about subsidiary books
2	18BAB102	B102 FINANCIAL ACCOUNTING	Helps to Prepare final accounts
			Getting knowledge about branches of accounting
			Preparation of Accounts from incomplete records
			Clearly know about organisation and its functions
			Helps to know Perception and motivation concepts
3	18BAB201	ORGANIZATIONAL BEHAVIOUR	Know about different leadership styles
			Getting knowledge about group and managing conflicts
			Get some ideas about organisation climate and culture
			Helps to understand business firm
			Understand demand elasticity
4	18BAB202	18BAB202 BUSINESS ECONOMICS	Know about production functions
			Know about cost and revenue
			Understand different Pricing and structure

			Understanding Marketing
			Know about buyer behaviour
5	15BAB301	MARKETING MANAGEMENT	Get to know Products and its types
			Understand Pricing Policies
			Know about different advertising medias
			Know about banking
			Understand the functions of RBI
6	18BAB302	BANKING LAW AND PRACTICE	Aware about the relationships in banking and custmer
			Know about collection and payment of cheque
			Aware about internet banking
			Understanding about information system
			Know the MIS concepts
7	18BAB303	MANAGEMENT INFORMATION SYSTEM	Know about transaction of documents
			Understanding the Data base design and techniques
			Know about different Networking systems
			Understand about cost accounting
			Know about material control and FIFO ,LIFO
8	15BAB304	COST ACCOUNTING	Understand to know about systems of Wage payment
			Know about process of costing
			Understand the marginal cost
			Should have acquired knowledge about Tax
9	18BABID3	BUSINESS TAXATION	Know about heads of income
			Understanding about computation of income
			Getting some knowledge about Capital gains
			Know about VAT,TNVAT
			The students should understand the key features of Multimedia techniques .
10	18BABED1	MULTIMEDIA AND ITS APPLICATIONS	To impact of the animation development for future applications.
	102.02.2	MULTIMEDIA AND ITS AFFICATIONS	To learn the animation graphics and working with drawing tools in flash.
			To Learn the animation development for future development of application.
			Understand the functions of HRM
11	15BAB401		Differentiate Job analysis and job descriptions
	133.13.101	TOWN IN ADDOCKED MILE TO DEVELO	Understand about employee welfare systems
			Know about wages and salary
			Know about Grievances
			Understand to know Research
12	15BAB402	DESEADOU METHODS FOR MANAGEMENT	Know the Hypothesis and types
12	IJDAB402	RESEARCH METHODS FOR MANAGEMENT	Clear about sampling design
			Know about Test of significance
			Understand to write report
			Understand about finance functions
	15BAB403		Know about Capital, Equity, Debt and Preference Shares
13		MANAGEMENT ACCOUNTING	Understanding Capital budgeting
			Know about the capital structure
			Understand about Working capital Management

			To know about Law of contract
			Understand about law of agencies
15	15BABID4	LEGAL ASPECTS OF BUSINESS	Know about sale of goods act
			Understand to know about companies act
			Understand about Meeting and winding up of companies
			Understand to know basic of office
			Know about office environment and communication
16	15BABA04	MODERN OFFICE MANAGEMENT	Get some ideas about office correspondence and record management
			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
17	15BAB501	FINANCIAL MANAGEMENT	Understanding Capital budgeting
			Know about the capital structure
			Understand about Working capital Management
			Getting knowledge about entrepreneur
			Know about entrepreneurial motivation
18	17BAB502	ENTRENEURSHIP AND PROJECT MANAGEMENT	Understanding about Project and selection
		MILWOLDINI	
			Know about preparing report
			Know about different financial assistance
			Understand the functions of money
19	15BAB503	MONEY AND BANKING	Know the different kinds of banks in india
			Understand the economic development of the country
			Understand the organisied and in unorganised money market
			Know about inflation and deflation
			Understand about business ethics
20	15BAB504	BUSINESS ETHICS AND CORPORATE	Know about ethical values
	1321.12307	GOVERNANCE	Understand About culture and ethical leadership
			Know about corporate governance
			Understand to Corporate social responsibility
		E01 ADVERTISING AND SALES PROMOTION	Understand about advertising and its functions
21	15BABE01		Know about creativity of advertisement
21	135.15201	TE TENTION OF THE STREET THOSE THOSE	Know different advertising media
			Clearly know about promotion mix
			Understand the sales promotion
			Understand the nature of foreign exchange management
22	15BAB601	EODEICN EVCHANCE MANACEMENT	Know about international financial markets
22	13DVB001	FOREIGN EXCHANGE MANAGEMENT	Aware about international payments
			Getting knowledge about exchange rate determination
			Aware about foreign exchange risks
			Know about concepts of strategy
22	15D + Doors	Discourage of the con-	Understand the environmental analysis
23	15BAB602	BUSINESS STRATEGY	Know about strategic decision framework
			Understand about role of top management
<u> </u>			Know about Core competencies

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			Know about internet banking
			Know about mobile banking
24	15BBA603	INNOVATIVE BANKING	Understand to diffrentiate whlosale and retail banking
			Know about the universal and narrow banking
			Know about Offshore and multi national banking
			Know about E-Commerce
			Understand about Internet consumer and market research
25	15BAB604	ECOMMERCE	Know about Advertisement in E-Commerce
			Get some clear knowledge about B2B in E-Commerce
			Know about Policies and Seller Protection in EC
	15BBAE04	EVENT MARKETING	Understand about Event and event management
			Know about 5C s in Event marketing
26			Know about event planning and team management
			Understand about Marketing of events
			Know about the future of event marketing
			Understand to know concept of training
		ABE09 TRAINING AND DEVELOPMENT	Know the different training methods
27	15BABE09		Understand the learning concepts
			Understand the different evaluation in training methods
			Understand to know about the environments

## BBA (CA)

			Develop the knowledge, skill and attitude to creatively and systematically to solve the management problems and work effectively in modern business organizations
			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.
	PROG	RAMME OUTCOME (PO):	Analytical, logical and managerial skills with the technical aspects to resolve real world issues.
			The main objective of the programme is to understand the student about the business and people in the society.
			The programme intends to train the students to become competent enough for entry level management professionals.
			To impart conceptual grounding in computer usage as well as its practical business application will be provided.
	PROGRAMN	ME SPECIFIC OUTCOME (PSO):	Has an ability to apply knowledge of computing and business application appropriate to the discipline.
			Enable students to take up higher education to become business professionals, researchers, consultants and teachers with core competencies and skills.
S.No	Course Code	Course Name	Course Outcome
			Understanding the concepts of management and administration
			know about various functions of management
1	18BAC101	PRINCIPLES OF MANAGEMENT	Acquired knowledge in MBO
			Getting knowledge about Management process
			Understand about Budgetary control and auditing in an organisation
			To understand about processor to create ,edit and format documents.
2	18BAC102	INTRODUCTION TO INFORMATION TECHNOLOGY	On successful completion of this introduction of computers students will have the knowledge about computer system
		TECHNOLOG I	To develop creativity among students in designing a presentation of powerpoint which helps them to create a basic presentation.
			To develop technical and communication skills of students by using internet and it is common userfriendly.
			Acquired some knowledge about accounting
			Know about subsidiary books
3	18BAC201	FINANCIAL ACCOUNTING	Helps to Prepare final accounts

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			Getting knowledge about branches of accounting
			Preparation of Accounts from incomplete records
			Understanding Marketing
			Know about buyer behaviour
4	15BAC301	MARKETING MANAGEMENT	Get to know Products and its types
			Understand Pricing Policies
			Know about different advertising medias
			should have acquired knowledge about production management
			Understand Recruitment planning
5	15BAC302	PRODUCTION AND OPERATION MANAGEMENT	Know about Purchasing Procedures
			understanding inventory functions
			Know about ISO and AGMARK
			Students should have understood the concept of system analysis and design
6	15BAC303	SYSTEM ANALYSIS AND DESIGN	Knowledge of System development life cycle.
			To understand of how to analyse the system design and techniques.
			Knowing the knowledge of Input and Output design concept
			Should have acquired knowledge about Tax
7	18BACID3	BUSINESS TAXATION	Know about heads of income
,	TOBACIDS	BUSINESS TAXATION	Understanding about computation of income
			Getting some knowledge about Capital gains
			Know about VAT,TNVAT
	18BACA01	RETAIL MANAGEMENT	Acquired to know about retailing and its functions
			Know about visual merchandising
8			
8	IODACAUI	RETTIL WILLYNGLIVLEYT	Understand about retail merchandising
8	ISBACAUI	KETAL MANAGEMENT	Understand about retail merchandising  Know about Price determination and policies
8	IOBACAUI	ALTHE MAN OCLAREN	
8	IODACAVI	ICHILI MANOCENEN	Know about Price determination and policies
9	18BACED1	MULTIMEDIA AND ITS APPLICATIONS	Know about Price determination and policies  Understand the Retail MIS
			Know about Price determination and policies  Understand the Retail MIS  The students should understand the key features of Multimedia techniques .
			Know about Price determination and policies  Understand the Retail MIS  The students should understand the key features of Multimedia techniques .  To impact of the animation development for future applications.
			Know about Price determination and policies  Understand the Retail MIS  The students should understand the key features of Multimedia techniques.  To impact of the animation development for future applications.  To learn the animation graphics and working with drawing tools in flash.
9	18BACED1	MULTIMEDIA AND ITS APPLICATIONS	Know about Price determination and policies  Understand the Retail MIS  The students should understand the key features of Multimedia techniques.  To impact of the animation development for future applications.  To learn the animation graphics and working with drawing tools in flash.  To Learn the animation development for future development of application.
			Know about Price determination and policies  Understand the Retail MIS  The students should understand the key features of Multimedia techniques.  To impact of the animation development for future applications.  To learn the animation graphics and working with drawing tools in flash.  To Learn the animation development for future development of application.  Understand the functions of HRM
9	18BACED1	MULTIMEDIA AND ITS APPLICATIONS	Know about Price determination and policies  Understand the Retail MIS  The students should understand the key features of Multimedia techniques.  To impact of the animation development for future applications.  To learn the animation graphics and working with drawing tools in flash.  To Learn the animation development for future development of application.  Understand the functions of HRM  Differentiate Job analysis and job descriptions
9	18BACED1	MULTIMEDIA AND ITS APPLICATIONS	Know about Price determination and policies  Understand the Retail MIS  The students should understand the key features of Multimedia techniques.  To impact of the animation development for future applications.  To learn the animation graphics and working with drawing tools in flash.  To Learn the animation development for future development of application.  Understand the functions of HRM  Differentiate Job analysis and job descriptions  Understand about employee welfare systems
9	18BACED1	MULTIMEDIA AND ITS APPLICATIONS	Know about Price determination and policies  Understand the Retail MIS  The students should understand the key features of Multimedia techniques.  To impact of the animation development for future applications.  To learn the animation graphics and working with drawing tools in flash.  To Learn the animation development for future development of application.  Understand the functions of HRM  Differentiate Job analysis and job descriptions  Understand about employee welfare systems  Know about Wages and salary  Know about Grievances
9	18BACED1	MULTIMEDIA AND ITS APPLICATIONS	Know about Price determination and policies  Understand the Retail MIS  The students should understand the key features of Multimedia techniques.  To impact of the animation development for future applications.  To learn the animation graphics and working with drawing tools in flash.  To Learn the animation development for future development of application.  Understand the functions of HRM  Differentiate Job analysis and job descriptions  Understand about employee welfare systems  Know about Wages and salary  Know about Grievances  Understand to know Research
9	18BACED1	MULTIMEDIA AND ITS APPLICATIONS  HUMAN RESOURCE MANAGEMENT	Know about Price determination and policies  Understand the Retail MIS  The students should understand the key features of Multimedia techniques.  To impact of the animation development for future applications.  To learn the animation graphics and working with drawing tools in flash.  To Learn the animation development for future development of application.  Understand the functions of HRM  Differentiate Job analysis and job descriptions  Understand about employee welfare systems  Know about Wages and salary  Know about Grievances  Understand to know Research  Know the Hypothesis and types
9	18BACED1	MULTIMEDIA AND ITS APPLICATIONS  HUMAN RESOURCE MANAGEMENT	Know about Price determination and policies  Understand the Retail MIS  The students should understand the key features of Multimedia techniques.  To impact of the animation development for future applications.  To learn the animation graphics and working with drawing tools in flash.  To Learn the animation development for future development of application.  Understand the functions of HRM  Differentiate Job analysis and job descriptions  Understand about employee welfare systems  Know about wages and salary  Know about Grievances  Understand to know Research  Know the Hypothesis and types  Clear about sampling design
9	18BACED1	MULTIMEDIA AND ITS APPLICATIONS  HUMAN RESOURCE MANAGEMENT	Know about Price determination and policies  Understand the Retail MIS  The students should understand the key features of Multimedia techniques.  To impact of the animation development for future applications.  To learn the animation graphics and working with drawing tools in flash.  To Learn the animation development for future development of application.  Understand the functions of HRM  Differentiate Job analysis and job descriptions  Understand about employee welfare systems  Know about Wages and salary  Know about Grievances  Understand to know Research  Know the Hypothesis and types  Clear about sampling design  Know about Test of significance
9	18BACED1	MULTIMEDIA AND ITS APPLICATIONS  HUMAN RESOURCE MANAGEMENT	Know about Price determination and policies  Understand the Retail MIS  The students should understand the key features of Multimedia techniques.  To impact of the animation development for future applications.  To learn the animation graphics and working with drawing tools in flash.  To Learn the animation development for future development of application.  Understand the functions of HRM  Differentiate Job analysis and job descriptions  Understand about employee welfare systems  Know about Wages and salary  Know about Grievances  Understand to know Research  Know the Hypothesis and types  Clear about sampling design  Know about Test of significance  Understand the concept of fundamentals & basic concepts in relational Data Base Management Systems.  Develop a clear understanding of the conceptual frameworks and definitions of specific terms that are integral to the
9	18BACED1	MULTIMEDIA AND ITS APPLICATIONS  HUMAN RESOURCE MANAGEMENT	Know about Price determination and policies  Understand the Retail MIS  The students should understand the key features of Multimedia techniques.  To impact of the animation development for future applications.  To learn the animation graphics and working with drawing tools in flash.  To Learn the animation development for future development of application.  Understand the functions of HRM  Differentiate Job analysis and job descriptions  Understand about employee welfare systems  Know about Wages and salary  Know about Grievances  Understand to know Research  Know the Hypothesis and types  Clear about sampling design  Know about Test of significance  Understand the concept of fundamentals & basic concepts in relational Data Base Management Systems.  Develop a clear understanding of the conceptual frameworks and definitions of specific terms that are integral to the Relational Database Management Systems
9 10	18BACED1 15BAC401	MULTIMEDIA AND ITS APPLICATIONS  HUMAN RESOURCE MANAGEMENT  RESEARCH METHODS FOR MANAGEMENT	Know about Price determination and policies  Understand the Retail MIS  The students should understand the key features of Multimedia techniques.  To impact of the animation development for future applications.  To learn the animation graphics and working with drawing tools in flash.  To Learn the animation development for future development of application.  Understand the functions of HRM  Differentiate Job analysis and job descriptions  Understand about employee welfare systems  Know about Wages and salary  Know about Grievances  Understand to know Research  Know the Hypothesis and types  Clear about sampling design  Know about Test of significance  Understand the concept of fundamentals & basic concepts in relational Data Base Management Systems.  Develop a clear understanding of the conceptual frameworks and definitions of specific terms that are integral to the Relational Database Management Systems  Understand the basic concepts of Concurrency Control & database security
9 10	18BACED1 15BAC401	MULTIMEDIA AND ITS APPLICATIONS  HUMAN RESOURCE MANAGEMENT  RESEARCH METHODS FOR MANAGEMENT	Know about Price determination and policies  Understand the Retail MIS  The students should understand the key features of Multimedia techniques.  To impact of the animation development for future applications.  To learn the animation graphics and working with drawing tools in flash.  To Learn the animation development for future development of application.  Understand the functions of HRM  Differentiate Job analysis and job descriptions  Understand about employee welfare systems  Know about Wages and salary  Know about Grievances  Understand to know Research  Know the Hypothesis and types  Clear about sampling design  Know about Test of significance  Understand the concept of fundamentals & basic concepts in relational Data Base Management Systems.  Develop a clear understanding of the conceptual frameworks and definitions of specific terms that are integral to the Relational Database Management Systems
9 10 11	18BACED1 15BAC401	MULTIMEDIA AND ITS APPLICATIONS  HUMAN RESOURCE MANAGEMENT  RESEARCH METHODS FOR MANAGEMENT	Know about Price determination and policies  Understand the Retail MIS  The students should understand the key features of Multimedia techniques.  To impact of the animation development for future applications.  To learn the animation graphics and working with drawing tools in flash.  To Learn the animation development for future development of application.  Understand the functions of HRM  Differentiate Job analysis and job descriptions  Understand about employee welfare systems  Know about Wages and salary  Know about Grievances  Understand to know Research  Know the Hypothesis and types  Clear about sampling design  Know about Test of significance  Understand the concept of fundamentals & basic concepts in relational Data Base Management Systems.  Develop a clear understanding of the conceptual frameworks and definitions of specific terms that are integral to the Relational Database Management Systems  Understand the basic concepts of Concurrency Control & database security

1 1			
			Understand demand elasticity
13	15BACID4	BUSINESS ECONOMICS	Know about production functions
			Know about cost and revenue
			Understand different Pricing and structure
			Understand to know basic of office
			Know about office environment and communication
16	15BACA04	MODERN OFFICE MANAGEMENT	Get some ideas about office correspondence and record management
			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
17	15BAC501	FINANCIAL MANAGEMENT	Understanding Capital budgeting
			Know about the capital structure
			Understand about Working capital Management
			Understand to know the consumer needs
18	15BAC502	CONSUMER BEHAVIOUR	Getting to understand Consumer perception and Learning
		CONSUMER BEHAVIOUR	Differentiate the groups
			acquired to know about family and its roles in decision making
			Aware about consumer protection act 1986
		VISUAL PROGRAMMING	Students should have implict visual programming environment.
10	150 4 0500		The students understand the knowledge of basic toolbars and database tools.
19	15BAC503		To introduce and apply the concepts program development using a contemporary programming language
			To develop creativity among students in designing forms by tool box.
			Students are create procedures that are accessible from multiple form modules.
			Understand about advertising and its functions
			Know about creativity of advertisement
20	15BACE01	ADVERTISING AND SALES PROMOTION	Know different advertising media
			Clearly know about promotion mix
			Understand the sales promotion
			Understand about cost accounting
			Know about material control and FIFO ,LIFO
22	15BAC601	COST AND MANAGEMENT ACCOUNTING	Understand to know about systems of Wage payment
			Know about process of costing
			Understand the marginal cost
			Know about concepts of strategy
			Understand the environmental analysis
23	15BAC602	BUSINESS STRATEGY	Know about strategic decision framework
			Understand about role of top management
			Know about Core competencies
			To update the knowledge of internet and webapplication concepts.  To update the importance of the web and creation of web pages.
24	15BAC603	INTERNET AND WEB DESIGN	To understand the importance of the web and creation of web pages.
	15BAC603		Students should implicit the knowledge of text wrapping and cell spacing and cell padding.
			To develop technical and communication skills of students by using internet and it is common userfriendly.
	i l		Understand about Event and event management

	25	15BACE04	EVENT MARKETING	Know about 5C s in Event marketing
				Know about event planning and team management
ı				
				Understand about Marketing of events
ı				Know about the future of event marketing

#### BACHELOR OF COMMERCE (B.Com)

			The graduates will be able to
			Have complete knowledge of Finance, Accounting, Taxation, Information Technology, Business laws and other
	PROGI	RAMME OUTCOME (PO):	Equip with professional, inter personal and entrepreneurial skills.
	111001	unani 00100ii (10).	Gear up with updated knowledge in implementing business practices
			Evaluate environmental factors that influence business operation.
			Prepare for post graduate studies and to achieve success in their professional careers
			Students shall experience problem solving skills related to Accounting, Costing & Analyse Financial Statements of Companies.
	PROGRAM	SPECIFIC OUTCOMES (PSO)	
			Reveal knowledge of forms of organization and key areas of marketing & Apply laws pertaining to Business
S.NO	COURSE CODE	COURSE NAME	Demonstrate knowledge of key concepts in Entrepreneurship, Direct & Indirect taxes.  COURSE OUTCOME
S.NO	COURSE CODE	COURSE NAME	COURSE OU I COME
			To Enrich the students in the basic concepts of Accounting
1	17BCM101	Financial Accounting -I	Familiarize the students with the steps involved in locating errors and make them understand the relationship between Profit & Loss Account and Balance Sheet.
•	1750.1101	Thanks Teessaning 1	Grasp the accounting treatments relating to issue, acceptance, discounting, maturity and endorsement of bills and notes in the books of drawer and drawee
			Interpret and explain the performance of branches.
2	18BCM102	Essentials of Commerce	To understand Technologies supporting e-commerce, including Web services and electronic payment systems.
			To understand Scenarios for B2B in commerce
			Policy and regulatory issues in commerce.
			Understand and apply supply and demand analysis to relevant economic issues;
3	16BCMID1	Business Economics and Economic Development	Apply marginal analysis to the "firm" under different market conditions;
			Understand the causes and consequences of different market structures;
			Apply economic models to examine current economic issues and evaluate policy options for addressing these issues;
	17BCM201	T' '14 '' T	Define & examine the accounting principles, underlying financial statements and their implementation in partnership firms.
4	17BCM201	Financial Accounting - II	Interpret the financial result after admission, retirement and death of a partner and explain different accounting policies.
			Understand and explain the conceptual framework of banking
5	18BCM202	Principles of Banking and Insurance Law	Classify and Demonstrate the types of deposit, cheques, loans and advances
			Illustrate the various electronic payment methods
			Acquire the conceptual knowledge of the fundamentals of corporate accounting
6	18BCM301	Corporate Accounting	Understand the concepts and standards underlying the accounting procedures used to measure business performance
			Have a comprehensive knowledge about the latest provisions of the Companies Act.
7	17BCM302	E-Commerce	Discuss modern computing infrastructures from the perspective of the internet and organisations
,	17BCM302	D-Connicte:	Discuss and explain theoretical and practical issues of conducting business over the internet and the Web  Reflect on general principles revealed through practical exploration of specific tools, techniques and methods in e- business.
			To state the law relating to Indian Contract Act and define the concept of contract
8	15BCM303	Commercial Law	To understand the different elements of contract, performance of contract and different modes of discharge of contract
			To explain the concept of special contracts
			Define the core concepts of marketing and discuss the role of marketing in business and society.
9	17BCM304	Principles of Marketing	Explain the modern marketing techniques and discuss how it is used to pursue new marketing opportunities
l			Define grading and Illustrate the opportunities for graded agricultural and commercial products

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			Identify the marketing mix elements and describe the components of market mix.
			Explain and illustrate the social, cultural and economic trends and transformation related to digitalized marketing environment.
			Describe laws governing cyberspace and analyze the role of Internet Governance in framing policies for Internet security
10	17BCMA02	Cyber Law	Discuss different types of cybercrimes and analyze legal frameworks of different countries to deal with these cybercrimes
			Explain the importance of jurisdictional boundaries and identify the measures to overcome cross jurisdictional cyber crimes
			Understand the corporate practice in valuing shares and goodwill.
			Acquaint with the legal formats and special items and adjustments pertaining to Banking companies and Insurance companies.
11	15BCM401	Higher Corporate Accounting	Develop the skills in preparation of consolidated Balance Sheet of Holding company and Subsidiary company
			To learn the latest provisions relating to Government accounting and Human Resources accounting
12	17BCM402	Company Law and Secretarial Pracitce	Understand the formation and kinds of companies.
		. ,	Acquire knowledge on basic documents in a company and various methods of raising of capital.
			Examine the provisions of Companies Act relating to meetings, resolutions and Company Management
			To provide an overview of Prerequisites to Business Communication.
			To put in use the basic mechanics of Grammar.
13	16BCM403	Corporate Communication	To provide an outline to effective Organizational Communication.
			To underline the nuances of Business communication.
			To impart the correct practices of the strategies of Effective Business writing.
			Understand the basic principles underlying the Indirect Taxation Statutes
14	17BCMA04	Indirect Taxation	Identify and analyze the procedural aspects under different applicable statutes related to indirect taxation
			Examine the concepts used in indirect tax, assessment, powers, duties, offences, penalties etc.
			Explain the basic concept of cost and how costs are presented in financial statements.
15	15BCM501	Cost Accounting	Demonstrate how materials, labor and overhead costs are added to a product at each stage of the production cycle.
			Demonstrate how materials, labor and overhead costs are added to a product at each stage of the production cycle.  Analyze the basic cost flow model and be able to assign costs in a job cost system.
			Demonstrate critical thinking when presented with managerial problems and express their views and opinions on managerial issues in an articulate way.
16	15BCM502	Management Principles and Practice	Understand the major internal features of a business system and the environment in which it operates.
			Identify and explain the importance of the management process and identify some of the key skills required for the contemporary management practice.
			Examine the basic concepts of schedule of rates of tax, tax liability, penalties and prosecution
17	15BCM503	Income Tax Law and Practice	Explain the total taxable income of an assessee
			Apply and practice the computation of total income
18	15BCM504	Principles of Auditing	Understand the basic auditing principles, concepts, planning an audit and due diligence.  Illustrate the steps required to perform Internal control and Internal check, Vouching and Verification and Valuation of
			Assets and Liabilities.  Gain expert knowledge on current auditing practices and procedures and apply them in auditing engagements as well as
			detection of frauds
			Understand the concept, origin and growth of entrepreneurship
19	15BCM505	Entrepreneurial Development	Examine the various governmental and non-governmental support offered to the entrepreneurs
			Understand the process of starting a new venture
			Prepare a business plan  Familiarize the basic concepts of human resource management, framework and its role to play in effective business
			administration
20	15BCME01	Human Resource Management	Interpret the elements relate to various aspects of HRM, such as recruitment, placement, evaluation, compensation and development
			Understanding the goals of HRM and organizational outcomes, and apply this understanding in practical situations
			Find and Apply tools and techniques used to plan, control and decision making
21	15BCM601	Management Accounting	Prepare budgets and demonstrate budget control techniques
			Illustrate and Build the knowledge of break-even analysis and profit maximization
			To understand and identify the concepts of Business Fiancé
22	15BCM602	Business Finance	Understand Capital Structure, Cost of Capital for strategic Financial Decision Making
			Apply and practice the Theories for financial planning

23	15BCM603	Marketing Research	Understand the process of marketing research and its different processes identify sources of information  Understand different research methods  Apply selected research methods  Analyse and interpret both qualitative and quantitative data
24	17BCME05	Business Environment	Discuss the supply and demand theory and its impact on insurance.  Explain the effects of government policy on the economic environment and insurance industry.  Outline how an entity operates in a business environment.  Describe how financial information is utilized in business.  Explain the legal framework that regulates the insurance industry.
25	18BCME08	Indian Capital Market	Analyse factors affecting the formulation of accounts receivable and accounts payable policies  Explain the objectives of inventory inventory management and application of simple inventory control techniques  To prepare students with a good understanding of the theoretical foundation of capital market
26	15BCME07	International Financial Reporting Standards	To enable the Students to understand the need International Financial Reporting Standards  To Enable the students to understand the method of presentation of Financial Statements in accordance with International standards
27	15BCM E09	Brand Management	To help Students understand the concepts of Brand Management  To Familiarise the practices of Brand Management

## $BCOM (Corporate\ Secretary ship)$

			The graduates will be able to
			Have complete knowledge of Finance, Accounting, Taxation, Information Technology, Business laws and other
	Pro	gramme Outcome (PO):	Equip with professional, inter personal and entrepreneurial skills.
			Gear up with updated knowledge in implementing business practices
			Evaluate environmental factors that influence business operation.
			Prepare for post graduate studies and to achieve success in their professional careers
			Serving as bases for Professional programmes such as ACS, ICWA and CMA.
	Program	nme Specific Outcome (PSO):	Create the students well versed in few areas of interest such as Accounting, Labor Legislation, Company Law and
	Frogram	nne specinc Outcome (FSO):	Taxation.
			Build in student transcribing skills needed in positions such as Executive Secretary
S.No	Course Code	Course Name	Course Outcome
	15BCS101	Core 1 Fundamentals of Accounting	Develop and understand the nature and purpose of financial statements in relationship to decision making
			Develop the ability to use the fundamental accounting equation to analyze the effect of business transactions on an organization's accounting records and financial statements.
1			Develop the ability to use a basic accounting system to create (record, classify, and summarize) the data needed to solve a variety of business problems
			Develop the ability to use accounting concepts, principles, and frameworks to analyze and effectively communicate information to a variety of audiences
			Develop the ability to use accounting information to solve avariety of business problems
			Understand the concepts related to Business.
			Demonstrate the roles, skills and functions of management.
2	15BCS102	BCS102 Core 2 Management Concepts	Analyze effective application of PPM knowledge to diagnose and solve organizational problems and develop optimal managerial decisions
			Understand the complexities associated with management of human resources in the organizations
			Integrate the learning in handling the complexities.
			Understand the roles of managers in firms
			Understand the internal and external decisions to be made by managers
3	15BCSID1	IDC 1 Managerial Economics	Analyze the demand and supply conditions and assess the position of a company
			Make optimal business decisions by integrating the concepts of economics, mathematics and statistics.
			Analyze real-world business problems with a systematic theoretical framework.

			Develop and understand the nature and purpose of financial statements in relationship to decision making
			Are able to understand the Accounting Standards.
4	15BCS201	Core 3 Financial Accounting - I	Develop the ability to use a basic accounting system to create (record, classify, and summarize) the data needed to
			solve a variety of business problems  Develop the ability to use accounting concepts, principles, and frameworks to analyze and effectively communicate
			information to a variety of audiences
			Able for the preparation of financial statements
			Provide an overview of theworking of the domestic insurance sector
			To enable students to acquire knowledgeand skill aboutthe working of theinsurance system
5	15BCS202	Core 4 Insurance for Business Process Service	Create the awareness of IRDA Act
			Understand the Calcualtion and valuation of premiums in diffrent types of insurance.
			To get an overview on non life General Insurance.
			Understand basic concepts and terminology of information technology
			Have a basic understanding of personal computers and their operations.
6	15BCSID2	IDC 2 – Fundamentals of Information Technology	Be able to identify issues related to information security
			An ability to analyze the local and global impact of computing on individuals, organizations, and society
			An ability to assist in the creation of an effective project plan  Employ critical thinking skills to understand the difference between the dissolution of the firm and dissolution of
			partnership.
7	15BCS301	Core 4 Financial Accounting-II	Prepare financial accounts for Fire Insurance Claims
			Prepare financial accounts for Insolvency Accounts
			Prepare financial accounts for partnership firms in different situations of retirement, death and insolvency of the partners.
	Communicate effectively using standard business and legal terminology.  Demonstrate recognition of the requirements of the contract agreement  15BC\$302  Core 6 Elements of Business Laws		
8			
			Demonstrate understanding of contract consideration and capacity
			Demonstrate recognition of the genuineness of assent in contract formation.
			Demonstrate understanding of legality and Statute of Frauds in contracts
			Understand the Kinds of Meetings , Requisites of a Valid Meeting , Preparation of Agenda and Minutes
	Identify the types of Directors , their Appointment and Qualification –   Core 7Company Law & Secretarial Practice – I   Know the Appointment of Auditors , Qualification of Auditors and preparation of Auditors and Preparatio	Identify the types of Directors , their Appointment and Qualification –	
9		Core 7Company Law & Secretarial Practice –I	Know the Appointment of Auditors , Qualification of Auditors and preparation of Auditors Report
			Understand Power of Board of Directors Regarding declaration of Dividend
			Analyse the different Modes of Winding Up
			Demonstrate understanding of marketing terminology and concepts
			Demonstrate knowledge of keybusinesscommunication strategies within the marketingfield
10	15BCS304	Core 8 Principles of Marketing	
		Core o Fincipies of Marketing	Identify the different promotionalmethods
			Identify wants and environmental factors that shape marketinga ctivities for certain targetmarkets
			Demonstrate knowledge of the online marketing and green marketing
			Ability to know the arithmetic techniques to solve the busiiness problems
			Understand and be able to communicate the underlying business concepts
11	15BCSID3	IDC 3 Business Mathematics	Ability to use order of operation in the solution of arithmetic application problems
			Ability to apply proprtion to rate ,base,and percentage problems
			Understand tosolve for unknowns
			Describe the functions of banking
12	15BC\$401/02	AOC I Practical Banking	Analyxe the functions of central banking
12	15BCSA01/02	AGE TITACHCAI DAIRNING	Describe the policy reforms in banking industry
			Describe the recent developments in banking
			Understand the regulatory environment in which the companies are formed and operate •
			Have a solid foundation in accounting and reporting requirements of the Companies Act and relevant Indian
1 1		I	Accounting Standards

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13	15BCS401	CORE X Corporate Accounting	Have a comprehensive understanding of the advanced issues in accounting for assets, liabilities and owner's equity	
			Understand the treatment regarding issue of bonus shares and treatment of prior period profits	
			Understandthe accounts related to liquidation of companies	
			Understand the valuation of goodwill	
			Understand the Kinds of Meetings , Requisites of a Valid Meeting , Preparation of Agenda and Minutes	
		CORE XI Company Law and Secretarial Practice	Identify the types of Directors, their Appointment and Qualification –	
14	15BCS402	-II	Know the Appointment of Auditors , Qualification of Auditors and preparation of Auditors Report	
			Understand Power of Board of Directors Regarding declaration of Dividend	
			Analyse the different Modes of Winding Up	
			Understand the Indian Constitution, Directive principles of state policy and provision relating to State Monopoly	
			Analyse the Properties Which Cannot Be Transferred and follow the Rule against Properties	
15	15BCS403	CORE XIII General Law	Decribe the various kinds of registration and Miscellaneous Provisions.	
			Understand the various types of stampduty and Impounding of Instruments	
			Describe the Exemption from disclosure are excluded and Appellate authorities	
			Aiming to enable the students to get the Know-how of corporate finance in its Wide aspects	
			To create an interest in investment habit keeping its wide scope	
16	15BCS404	Corporate Finance	To introduce the concept of Capital Market	
			To familiarize the concept of lease financing venture Capital and Mutual Fund	
			In order to equip the students with details about foreign collaboration and multinational corporates	
			To understand and demonstrate writing and speaking processes through invention, organization, drafting, revision, editing, and presentation.	
17	15BCSA03	Corporate Communication	To understand and appropriately apply modes of expression, i.e., descriptive, expositive, narrative, scientific, and self-expressive, in written, visual, and oral communication	
17			To participate effectively in groups with emphasis on listening, critical and reflective thinking, and responding.	
			To understand and practice writting various business letters	
			Enable the students to understand about amalgamation , absorption and external reconstruction	
	To make them aware about accounts of banking companies			
18		Core 13 Higher Corporate Accounting		
			Aimed to familiarize the concept of cost accountin	
		elps to gather knowledge on preparation of cost sheet in its practical point of view  17BCS502 Core 14 Cost Accounting of facilitate the idea and meaning of material control with pricing methods	·	
19	17BCS502			
				Develop the knowledge about remuneration and incentives  To introduce the concept of courbead cost.
			To introduce the concept of overhead cost	
			Understand the laws relating to Factories Act  Toenlighten the concept of Industrial disputes Act	
20	15BCS503	Core 15 Industrial and Labour Laws		
			To introduce the basic concept of Workmen compensation Act	
			To make them aware about Payment of Wages ACT	
			Describe Trade Unions Act	
			Describe Trade Unions Act  To understand the concept of Comparity Consumance	
			To understand the concept of Corporate Governance	
21	17BCS504	Core 16 Corporate Governance	To understand the concept of Corporate Governance  Helps to gather knowledge on Company and Secretarial Audit	
21	17BCS504	Core 16 Corporate Governance	To understand the concept of Corporate Governance  Helps to gather knowledge on Company and Secretarial Audit  To Describe the concept and amendements of Companies Act 2013	
21	17BCS504	Core 16 Corporate Governance	To understand the concept of Corporate Governance  Helps to gather knowledge on Company and Secretarial Audit  To Describe the concept and amendements of Companies Act 2013  Provide an overview on E-Governance	
21	17BCS504	Core 16 Corporate Governance	To understand the concept of Corporate Governance  Helps to gather knowledge on Company and Secretarial Audit  To Describe the concept and amendements of Companies Act 2013  Provide an overview on E-Governance  To make aware about Corporate Social Resposibility	
21	17BCS504	Core 16 Corporate Governance	To understand the concept of Corporate Governance  Helps to gather knowledge on Company and Secretarial Audit  To Describe the concept and amendements of Companies Act 2013  Provide an overview on E-Governance	

22	15BCSP01	IDC Lab I Ms Office and Tally	
		, , , , , , , , , , , , , , , , , , , ,	To Design the slides and charts in MS.Powerpoint
			Helps to create different database in Ms asscess
			Develop a knowledge about creation of companies and Working with tally
			To introduce the basic concept of Income Tax
	15BCSE01/		In order to familiarize the different know-how and heads of income with its components
23	15BCSE02/ 17BCSE03	Taxation I	It helps to build an idea about income from house property as a concept
	17200203		Toenlighten the concept of income from other source
			To determine the concept of assessment of individual  Acquire knowledge on Three primary purposes of management accounting namely, inventory valuation, decision
			support and cost control.
24	17BCS601	Core 17 Accounting For Management	Compare traditional and contemporary costing approaches for the above purposes.
24	1/60001	Core 17 Accounting For Management	Learn how costs are analysed for different product costing contexts such as job-order, process or joint-product systems
			Develop and apply standards and budgets for planning and controlling purposes
			Apply incremental analysis to a range of business scenarios.
			to encourage in students a critical appreciation of the important role of corporations and corporate law in modern society
			to give students an understanding of the principles and rules of Australian corporate law to a level that is sufficient to satisfy the requirements for admission to legal practice.
25	15BCS602	Core 18 Corporate Law	evaluate corporate problems, identifying appropriate legal obligations, duties, rights and remedies
			demonstrate competency with the use of statutory material and its integration with common law principles.
			develop an awareness of the socio-legal and economic dimensions of modern corporate law
	15BCS603	Core 19 Securities Law and Financial Markets	Understand the Financial and money market
			Toenlighten the concept of Securities regulation Act 1956
26			To introduce the basic concept of intermediaries and their roles
			To make them aware about SEBI and Mutual Fund
			Describe the concept of Depositories Act 1996
			To define various types of indirect taxes like, excise duty, customs duty(import and export),production linked tax, and Value Added Tax (VAT
			acquire knowledge on the sources of revenues of the government
27	15BCSE04/ 17BCSE05/	Taxation II	
	17BCSE06		To analyse and evaluate the effect of an indirect tax on consumers, producers and the government.
			Learn to differentiatebetween CST and VAT.
			Able to understand Tax liability and taxable entities. Accounting treatment (simple and trilateral transactions)  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
	17BCSE07/		understand to describe the various levels ofpersuasiveness of different types of audit evidence and explain the broad principlesof audit sampling techniques
28	15BCSE08/ 15BCSE09	Auditing Practice and Principles	Learn to explain methods used to obtain an understanding of internal control
		Jacobo, I	Learn to Determine the appropriate audit report for a given audit situation.
			Helps to understand auditors" legal liabilities,
	17BCSPR1		To acquire practical knowledge on the implementation of perceptions studied through the programme.
29		Project and Viva Voce	practical exposure in the Project work, knowledge which will equip the students in Research work.
-		Project and Viva Voce	acquire practical knowledge on the implementation of the programming concepts studied.
			acquire knowledge on framing of objective and defining the problem
			Practical exposure on presenting the project

#### B Com Information Technology

	The graduates will be able to
	Have complete knowledge of Finance, Accounting, Taxation, Information Technology, Business laws and other
PROGRAMME OUTCOME (PO):	Equip with professional, inter personal and entrepreneurial skills.
PROGRAMME OUTCOME (FO):	Gear up with updated knowledge in implementing business practices

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			Evaluate environmental factors that influence business operation.
			Prepare for post graduate studies and to achieve success in their professional careers
			Serving as bases for Professional programmes such as ACS, ICWA and CMA.
	PROGRAMM	IE SPECIFIC OUTCOME (PSO):	Create the students well versed in few areas of interest such as Accounting, Taxation,Software Developer, Tester and Web Designer.
S.No	Course Code	Course Name	Provide Framework for the students in Information Technology with tools that will assist  Course Outcome
			Develop and understand the nature and purpose of financial statements in relationship to decision making  Develop the ability to use the fundamental accounting equation to analyze the effect of business transactions on an
1	15BCI101	Core 1 Financial Accounting -I	organization's accounting records and financial statements.  Develop the ability to use a basic accounting system to create (record, classify, and summarize) the data needed to
1	тэвсти	Core 1 Pinanciai Accounting -1	solve a variety of business problems  Develop the ability to use accounting concepts, principles, and frameworks to analyze and effectively communicate
			information to a variety of audiences
			Develop the ability to use accounting information to solve avariety of business problems
			Understand basic concepts and terminology of information technology
			Have a basic understanding of personal computers and their operations.
2	15BCI102	Core 2 Introduction to Information Technology	Be able to identify issues related to information security
			An ability to analyze the local and global impact of computing on individuals, organizations, and society
			An ability to assist in the creation of an effective project plan
			Understand the roles of managers in firms
			Understand the internal and external decisions to be made by managers
3	15BCIID1	IDC 1 Managerial Economics	Analyze the demand and supply conditions and assess the position of a company
			Make optimal business decisions by integrating the concepts of economics, mathematics and statistics.
			Analyze real-world business problems with a systematic theoretical framework.
			Develop and understand the nature and purpose of financial statements in relationship to decision making
4	1500001	Con 2 Financial Assessment V	Are able to understand the Accounting Standards.  Develop the ability to use a basic accounting system to create (record, classify, and summarize) the data needed to
4	15BCI201	Core 3 Financial Accounting - I	solve a variety of business problems  Develop the ability to use accounting concepts, principles, and frameworks to analyze and effectively communicate
			information to a variety of audiences
			Able for the preparation of financial statements
			Understandsthe concept of Computer's Input/output devices, the concept of dynamic memory,
			Analyze problems, errors
5	15BCIP01	Core Lab 1 [Information Technology Lab]	Design flow-chart, algorithm and program logic.
			Apply programming concepts to compile and debug c programs to find solutions.
			Understand the concept of data types, loops, functions, array, pointers, string, structures and files.
			Demonstrate understanding of marketing terminology and concepts.
			Identify wants and environmental factors that shape marketing activitie for certain target markets.
6	15BCIID2	IDC 2 Principles of Marketing	Demonstrate knowledge of the individual components of a marketing mix.
			Demonstrate knowledge of key business communication strategies with in the marketing field.
			Identify the organisational processes involved in the planning, implementation and control of marketing activities
			Ability to define bookkeeping and accounting
7	15BCI301	Core 4 Financial Accounting-III	Develop the knowledge of the general purposes and functions of accounting
			Ability to know the differences between management and financial accounting
			Develop the knowledge of main elements of financial accounting information – assets, liabilities, revenue and expenses
			Ability to identify the main financial statements and their purposes.
			Develop the knowledge of network management and the network management architecture
			Ability to know the various functions of network management.
8	15BCI302	Core 5 Networking Management	Gain in-depth theoretical and practical knowledge of network management, and in particular of SNMP (Simple Network Management Protocol)
			Ability to Compare a number of variations of the network management architecture.

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			Ability to know how to manage multiple operating systems, systems software, network services and security
9			Understand the procedural and object oriented paradigm with concepts of streams, classes, functions, data and objects.
			Understand dynamic memory management techniques using pointers, constructors, destructors, etc
	15BCI303	Core 6 Programming With C++ [Theory]	Ability to know the concept of function overloading, operator overloading, virtual functions and polymorphism.  Ability to Classify inheritance with the understanding of early and late binding, usage of exception handling, generic programming.
			Ability to Demonstrate the use of various OOPs concepts with the help of programs.
			provides a thorough introduction to the C programming language
		Core Lab 2Computer Application	Understand basic structure of the C-Programming ,declaration and usage of variables
11	15BCIP02	Practical's [C++]	Write C programs using operators
			Exercise conditional and iterative statements to write C programs
			write C programs using Pointers To Access, Arrays, Strings And Functions
			Ability to know the arithmetic techniques to solve the busiiness problems
			Understand and be able to communicate the underlying business concepts
12	15BCIID3	IDC 3 Business Mathematics	Ability to use order of operation in the solution of arithmetic application problems
			Ability to apply proprtion to rate ,base,and percentage problems
			Understand tosolve for unknowns
			Understandung basicinstitutional and practical knowledge in the field of banking
13	15BCIAO1/O2	AOC I Practical Banking	Ability to know the banking law besides fundamental legal knowledge
		Not I Hadden Banking	Ability to carry out financial analysisof banks
			Understand to use computer sofftware and communication technologies required in bankking
	15BTA001/		Ability to identify and use the elements and principles of design in multimedia
14	15ATA001/	BT/AT / EDC –Multimedia#	Able to identify terminology associated with theconcepts and techniques
	15BCIED1		Able to identify the basic hardware and software requirements for the multimedia development
			Able to know about strategic and legal issues in mergers and acquisitions
			Understand accounting for inter-corporate investments
15	15BCI401	Core 7 Corporate Accounting	Able to know about takeovers through asset purchases and share purchases
			Able to know about foreign currency transactions and translation
			Student can understand disclosure and financial analysis issues
		CI402 Core 8 Company Law & Secretarial Practice	Summarize Procedure for incorporation of the company
			Analyze Sources of raising capital.
16	15BCI402		Evaluate Role and importance of Company Secretary and key managerial personnel
			Discuss Matters to be stated in the prospectus.
			Able to Define Demat and Re-mat of securities
			Able To describe data models and schemas in DBMS
			Able To understand the features of database management systems and Relational database
17	15BCI403	Core 9 Database Management System	Able To use SQL- the standard language of relational databases.
			Able To understand the functional dependencies and design of the database.
			Able To understand the concept of Transaction and Query processing
			Describe the fundamental elements of relational database management systems
			Explain the basic concepts of relational data model, entity-relationship model, relational database design, relational algebra and SQL
18	15BCIP03	Core Lab 3 Database Management System Lab	Design ER-models to represent simple database application scenarios
			Improve the database design by normalization.
			Familiar with basic database storage structures and access techniques: file and page organizations, indexing methods
			including B tree, and hashing.

19	15BCIID4	IDC 4 Business Statistics	
			Able To Compute measures of location and dispersion.
			Apply discrete and continuous probability distributions to various business problems.
			Able To Develop the skill of performing the calculations needed for various methods of analysis.
			Able to Define the nature and importance of auditing
20	15BCIAO3/O4	AOC II Principles of Auditing	Able to know the various audit services and related practices
			Able to Design and apply an audit plan
			Able to know the role of auditing in the modern economy as well as on various external/internal audit techniques
21	15BCIED2	EDC: Communicative English #	students are able to make accurate use of English Language in their respective fields
			The students could communicate effectively in their various business situations.
			The verbal and non-verbal skills of communication are developed.  UnderstandCost accounting Knowledge such as terminology ,Fundamentalprinciples classifications, generalisation and methods.
			Identify cost volume profit relationships and solve CVP functions.
22	15BCI501	Core 10 Cost Accounting	Solve problems and make decisions based on results of the solution of problems.
			Analyse inventory costing and capacity
			Identify and determine cost behaviour
			To make aware of the provisions of direct tax with regard to IT act.
			To make an aware about agriculturalincome residential status and charge of tax.
23	17BCI502	Core 11 Taxation -I	To understand the provisions and procedure to compute total income under five heads salary,house property,profits and gains from business and profession,Capital gains and income from other sources
			To understand the provisions and procedures for clubbing & aggreation of incomes and set off & carry forward losses.
			understand the various deductions to be made from gross total income us80 C to 80 U comuting total income.
			To make aware of Sources of Law , Essentials of Valid Contract , Intention to create Legal Relations
			To understand the Capacity to a Contract Fraud Coercion and Undue Influence
24	17BCI503	Core 12 Legal Business Concepts	Helps to give proper idea on Lawful Object-Agreement not declared Void
			To understand the Indian Partnership Act 1932 ,duties and liabilities of partners.
			To understand the Consumer protection Act-1986
			To Understand the concept of menubar,toolbar and project explorer
			Understand the user defined data types and Control Structures
25	17BCI504	Core 13Software Development In Visual Basic	Helps to give proper idea on Creating and Using Standard Control
			To Understand the concept of Multiple Document Interface and Control arrays
			Helps to give proper idea on using of data controls to connect to databases
			Helps to give proper idea to compute, validate and display student marklist
			Understand the working of image controls with string functions
26	17BCIP04	Core Lab 4 Software Development In Visual Basic Lab	Understand the working of arrays to create bank database
			Helps to give proper idea to create super market billing using data controls to connect with database
			Helps to give proper idea to highlight budget using option button and animation
			Understand the concept of E-Commerceand Describe the opportunities and challenges offered by E-Commerce
			Understand the categories of E-Commerceand understandthe different applications of E-Commerce
27	17BCIE01	E-Commerce	To understand and identifysecurity issues of E-Commerce
			Able to handle electronic payment technology and requirements for internet based payments
			Understand the concept of WEB Based Business Understand the M-Commerce applications
			To enlighten the students thought and knowledge on management Accounting
			Helps to give proper idea on financial statement analysis in practical point of view
28	17BCI601	Core 14 Accounting for Management	Helps to give proper idea on Ratio Analysisin practical point of view
			Tointroduce the concept of fund flow and cash flow statement
			To provide knowledge about budget control keeping in mind the scope of the concept

29	15BCI602	Core 15 HTML	To Understand the concept of protocols used in internet  Helps to give proper idea on searching keywords in internet  To understand the basic Html Font Tags
			To understand about the table tag in HTML  To provide knowledge about frames and forms in HTML
			To Understand the concept of protocols used in internet  Helps to give proper idea on searching keywords in internet
30	15BCIP05	Core Lab 5 [HTML Lab]	To understand the basic Html Font Tags
			To understand about the table tag in HTML  To provide knowledge about frames and forms in HTML
			To enlighten the students about the software Development Life Cycle models  Helps to give proper idea of software planning and scheduling
31	17BCIE05	PBCIE05 Software Engineering	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
		IE08 Investment Management	To understand about the Factors Influencing Investments
32	17BCIE08		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

# B COM (CA)

			The graduates will be able to
			Have complete knowledge of Finance, Accounting, Taxation, Information Technology, Business laws and other
	PROGI	RAMME OUTCOME (PO):	Equip with professional, inter personal and entrepreneurial skills.
			Gear up with updated knowledge in implementing business practices
			Evaluate environmental factors that influence business operation.
			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
	PROGRAMM	ME SPECIFIC OUTCOME (PSO):	Students will demonstrate that they can present the results of their observations and research in a way that is objective, technically accurate, and legally acceptable
			Students will use effective technology appropriately, such as PowerPoint, slides, posters, handouts, and transparencies in oral presentations.
S.No	Course Code	Course Name	Course Outcome
			Define book keeping and accounting
			Decribe the elements of financial accounting information - assets , liabilities , revenue and expenses
1	15BCC101	Financial Accounting –I	Explain general purposes and functions of accounting
			Identify the main financial statements and their purposes.
			Knowledge about finalizing the accounts of a company.
			Identify the sourses of economic value.
2	15BCCID1	Managerial Economics	Create new market opportunities through differentiation
			Understand the mechanisms of and competitions and their business
			Anticipate future market trends and dynamics
			Know the basic components of the computer and working of each device
			Understand the representation of data in a computer
3	15BCC102	Computer Fundamental and C programming	Describe the reason why differenct decision making and control structures.

Description of the community of the data strategy encogen both functions	1 1	İ		
Particular Accounting — II   Describe the concept dispersacions receive and procisions				Demonnstrate the difference between iteration and recursion in team of C programming.
Accordance of Pricine Single cases September				Develop c programs for data stucture concepts with functions
Faminial According III  Knowledge short Soft Multi-may holyer accords  Explain the According Testement in Histographes and Installment System  Bothers the According Testement in Histographes and Installment System  Bothers the According Testement in Histographes and Installment System  Bothers the According Testement in Histographes and Installment System  Bothers the According Testement in Histographes and Installment System  Bothers the According Testement in Histographes and Installment System  Bothers the According Testement in Histographes and Installment System According to the control in a viriety of elementary of the According to the According to the According to the According to the According to the According to the According to the According to the According to the According to the According to the According Testement in According to the According to the According Testement in According to a price application.  Checken the Institute on the According Testement in A				Describe the concept depreciation , reserve and provisions
Noveledge from of this balancing theory occurs.				Ascertainment of Profit in Single entry System
Describe the concept of Branch accounts	4	16BCC201	Financial Accounting -II	Knowledge about Self balancing ledger accounts
Describe the concept of Branch accounts				Explain the Accounting Treatment in Hire purchase and Instalment System
Finalistic approaches in addressing issues of discretism.    Principles of Management   Principles of Management				
Determine the most effective action to take in specific disturbation				
Principles of Minosposest   Designation of Minosposest   Designation of the control of the con				
Assess global standam, including opportunities and discuss that will impact management of an expansion of Specific born the managedul task of planning cranicities, and controlling can be executed in a variety of circumstance.  Solve the problems, present the ideas, write the letters and exc., using MS office package.  Decing algorithms and flow charts  Ladestand the findamentals of a programming.  Covone the long and discision making untireness to oblive the pecificion.  Use the functions to when different problems.  Understand file operations in C programming for a given applications.  December the adjustment in administrat of one pactors.  Explain the Accounting—Tentrol in administrat of one pactors.  Explain the Accounting—Tentrol in administrat of one pactors.  Modern of Doubshiro and Interview.  Modern of Doubshiro and Interview.  December of Doubshiro and Interview.  To apply less fromwards and methods, and develop analytical skills to solve marketing problems.  To apply less fromwards and methods, and develop analytical skills to solve marketing problems.  To apply less fromwards and methods, and develop analytical skills to solve marketing problems.  To competend marketing decines to relate the impact of marketing and its integration with your own major or field of sucress.  To apply less fromwards and methods, and develop analytical skills to solve marketing problems.  To competend marketing decines to relate the impact of marketing and its integration with your own major or field of sucress.  To apply less fromwards and methods, and develop marketing and its integration with your own major or field of sucress and decisionams.  To competend marketing decines to relate the impact of marketing and its integration with your own major or field of sucress.  To competend marketing in certification the programming approach in connection with C++  Understand here are paid to expert of the programming in a proposed of all environmental of the politic extented for programming.  Marketinate the relative extent of	5	15BCCID2	Principles of Management	
Specify how the managerial task of planning organization, and controlling can be exceeded in a variety of circumstance.  Solve the problems, precent the ideas, write the interes and exusing MS office package  Design algorithms and flow change  Design algorithms and flow change  Comparer Fundamental & C Programming to  Comparer Fundamental & C Programming to  Comparer Fundamental & C Programming to  Understand file reportation in C programming for a given applications.  Procuration the afiguratory in administration for their partners.  Understand file reportation in C programming for a given applications.  Procuration the afiguratory in administration of other partner.  Marker of Dissolution and Bourbreay.  Describing about the innovence of Individual and partnership from  Ordining the Claims of Jose of stock in Fire innovence.  To understand how reganizations identify customers and their wantiviseds.  To provide you with a firm foundation in marketing. Consect.  Another covers depictive in to relate the impact of marketing and in integration with your own major or field of interest.  To compensate marketing desirated in both and develop analytical skills to other marketing problems.  To compensate marketing desirated in both and develop analytical skills to other marketing problems.  To compensate marketing desirated in the interest of marketing and in integration with your own major or field of interest.  To compensate marketing the carried out by an organization to meet the regionement of all environmental Understand bow C++ improve C with object-released formation of programming.  Understand because of C++ as an original programming improved in connection with C++  Understand because of C++ as an original programming improved in connection with C++  Understand advanced desires of C++ as an original programming improved in connection of programming improved in connection with C++  Understand advanced desires of C++ as an original programming improved in connection with C++  Understand advanced desires of				
Solve the problems, present the ideas, write the lemms and sec. using MS office package    Design algorithms and flow charts				Assess global situation , including opportunities and threats that will impact management of an organistion
Design algorithms and floor charts    Design algorithms and floor charts				Specify how the managerial task of planning organizing, and controlling can be executed in a variety of circumstances.
Discretated the fundamentals of a programming lab				Solve the problems, present the ideas, write the letters and etc using MS office package
Choose the loop and decision making statements to delive the problems  Understand file operations in C programming for a given applications  Determine the adjustment in admixion of new partner  Explain the Accounting Treatment in retirement of partner  Modes of Discolution and Incolvency  Describing about the involvency of Individual and partnership firm  Defining the Claims of loss of stock in Fire insurance  To understand how organizations identify extensives and their waterkineeds.  To agoth keer frameworks and methods, and develop analytical skills to solve marketing problems.  To growled you with a firm foundation in marketing Context  Another coaces objective is to rotate the impact of marketing Context  Another coaces objective is to rotate the impact of marketing or problems.  To understand marketing decisions, based upon the combination of product, price, promotion, and distribution elements.  To understand marketing is carried out by an organization to meet the requirements of all environmental  Understand how C++ improves C with object-oriented features.  Describe the object-oriented programming approach in connection with C++  Understand how to purply the marketing object oriented programming language  Understand how to purply the major object oriented programming language  Understand how to pupply the major object oriented or programming language  Understand how to pupply the major object oriented oriented programming  Apply the concepts of objects oriented programming  Municipales objects  Indigence advanced feet or supporting object oriented programming situations  Apply the concepts of objects oriented programming situations  Apply the concepts of objects oriented programming situations  Apply the concepts of objects oriented programming  Municipales objects  Understand how to implement cope constructors and class member functions  Understand the programming objects oriented or the basiness  Apply the concepts of objects oriented programming.  Demonstance as understanding of the logal environmen				Design algorithms and flow charts
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Understand how to apply the major object-oriented concepts to implement object oriented programs in C++, encapsulation, inheritance and polymorphism  Understand advanced features of C++ specifically stream I/O, templates and operator overloading  Apply the concepts of object-oriented programming  Manipulate objects  Implement advanced use of arrays in C++ programming.  Apply virtual and pure virtual function & complex programming situations  Apply how to implement copy constructors and class member functions  Illustrate the process of data file manipulations using C++  Demonstatre an understanding of the legal environment of the business  Apply basic legal knowledge to business transactions				Understand the relative merits of C++ as an object oriented programming language
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Implement advanced use of arrays in C++ programming.  Apply virtual and pure virtual function & complex programming situations  Apply how to implement copy constructors and class member functions  Illustrate the process of data file manipulations using C++  Demonstatre an understanding of the legal environment of the business  Apply basic legal knowledge to business transactions				Apply the concepts of object-oriented programming
Apply virtual and pure virtual function & complex programming situations  Apply how to implement copy constructors and class member functions  Illustrate the process of data file manipulations using C++  Demonstatre an understanding of the legal environment of the business  Apply basic legal knowledge to business transactions				Manipulate objects
Apply how to implement copy constructors and class member functions  Illustrate the process of data file manipulations using C++  Demonstatre an understanding of the legal environment of the business  Apply basic legal knowledge to business transactions	10	15BCCP02	C++ Programming Lab	Implement advanced use of arrays in C++ programming.
Illustrate the process of data file manipulations using C++  Demonstatre an understanding of the legal environment of the business  Apply basic legal knowledge to business transactions				Apply virtual and pure virtual function & complex programming situations
Demonstatre an understanding of the legal environment of the business  Apply basic legal knowledge to business transactions				Apply how to implement copy constructors and class member functions
11 16BCCA01 Company law Apply basic legal knowledge to business transactions				Illustrate the process of data file manipulations using C++
11 10BCCA01 Company raw				Demonstatre an understanding of the legal environment of the business
	11	16BCCA01	Company law	Apply basic legal knowledge to business transactions
Communicate effectively using standard business and legal terminalagy.		•	* * *	Communicate effectively using standard business and legal terminalagy.

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			Drafting of agenda and minutes of various meeting
			The paper includes that education remains a veritable means of human resource management
12	15BCCED1	Human Resourse Management	Human resource management has some specific roles to play in an organization  The goals of human resource management in education are to develop the workers and to contribute to goal achievement.
			Knowledge about the wages and welfare measures of employees
			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
13	15BCC401	Corporate Accounting	To develop the ability to research and write a Report
			To be effectively in writing minutes and on perparing agenda
			To develop the ability to research and write a documented paper
			Understand the functions of each layer in OSI and TCP/IP model.
			Understand the types of transmission media with real time applications.
14	15BCC403	Internet and HTML Programming	Design a responsive web site and Implement interactive web page(s).
			Demonstrate Rich Internet Application.
			Describe and differentiate different Web Extensions and Web Services.
			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
15	15BCC402	Corporate Communication	To develop the ability to research and write a Report
			To be effectively in writing minutes and on perparing agenda
			To develop the ability to research and write a documented paper
			To get familiar with basics of the Internet Programming.
			To acquire knowledge and skills for creation of web site.
16	15BCCP03	HTML Programming Lab	To gain ability to develop responsive web applications.
			To explore different web extensions and web services standards.
			Understand data link concepts designing with Form and frames.
			Demonstate and understanding of the legal environment of business
17	16BCCA03	Commercial Law	Define relavant legal terms in business
			Appreciate the relevance of business law to individuals and business
			Idendify the fundamental legal principles behind contractual aggrements
			Explains the purpose of cost accounting
			Defines the concept of cost, expense, loss and revenue
18	15BCC501	Cost Accounting	Calculate inventory cost according to the inventory vauation techniques
			Explain cost from the view point of the relationship with cost centers
			Caluculate Labour cost using various methods.
			Able to describe prvisions 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.
19	15BCC502	Income tax law and practice	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.
			Able to understand the rebates available under the act.
			Describe data models and schemas in DBMS
			Design ER-models to represent simple database application scenarios
20	15BCC504	DataBaseManagementSystem	Build indexing mechanisms for efficientretrieval of information from a database
			Understand the features of database management systems and Relational database
			Uses of SQL-the standard language of relational databases
			Understand the functional dependencies and design of the database

			Understand the concept of Transaction and Query processing
			Analyze the database using queries to retrieve records
			Populate and query a database using SQL DML/DDL commands
21	15BCCP04	DataBaseManagementSystem Lab	Define, develop and process single entity, 1:1, 1:M, and M:M database tables
			Design and implement a database schema for a given problem-domain
			Declare and enforce integrity constraints on a database using a state-of-the-art RDBMS
			Improve the database design by normalization
			Understand the commercial banking system and structure
			Decvelop better understanding on different types of deposits, their benefits etc
22	15BCCE01	Banking and Insurance Law	Know the procedural formalities in dealing with different types of customers
			Familiar with the basuc principles of insurance
			Demonstrate the characteristics of life and General Insurance  The ability to analyse complex issues, to formulate well reasoned and coherent arguments and to reach well considered
			conclusions.
23	15BCC503	Business Finance	The ability to prepare consolidated accounts for a corporate group.  An understanding of the accounting requirements for a corporate group and familiarity with the theory underlying the
			methods used to account for inter-company investments.
			Describe the their dimensions of performance and risk relevant to financial firms
			Evaluate investments in working capital and long term assets
			Explain the purpose and context of external audit and other assurance engagements
24	15DCCE07	Disciples of Audidon	Expalin the principles of good corporate governance and application of professional and ethical codes.
24	15BCCE07	Principles of Auditing	Expalin the nature of internal audit and its relationship with external audit.
			Demonstrate an audotor's plan to audit as per international standards of auditing.
			Evaluate the findings of the audit and assess their potential impact on auditor's report.
			Understand .NET Framework and describe some of the major enhancements to the new version of Visual Basic.  Describe the basic structure of a Visual Basic.NET project and use main features of the integrated development
			environment (IDE).
25	15BCC602	Visual Programming	Create applications using Microsoft Windows® Forms.
			Create applications that use ADO. NET.
			Using Crystal Reports.
			Working various VB.net Controls.
			Handling Mouse Events in Forms.
26	15BCCP05	Visual Programming Lab	Debugging VB .NET Applications.
			Working with Multiple Forms and MDI Applications.
			Working with Menus and Common Dialogs Date Time Picker, Month Calendar, Splitter Using the Status Bar.
			User Interfaces and Deployments Debugging Applications, Accessing with database and Generating Reports using Crystal Report
			Explain the importance of management accounting for business
			Analyzes the relationship betweeen the cost volume and profit
27	15BCC601	Management Accounting	Defining budgetting and operating budget concept
			Explains break-even sales price, contribution, margin of safety and profit margin concept.
			Describes determination of standard cost.
			Provide analytical tools to understand opputunities in unserved or under served new economy market
			Provide guiding principles behinf the design and strategy of the customer web inetrface.
28	15BCCE04	E-Commerce	Provide insights on how to implement in the new economy
			understand the fundamentals of financially valuing new economy companies
		1	Provide a fundamental understanding of the different types and key component on business models in the new economy.

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			The graduates will be able to
			Have complete knowledge of Finance, Accounting, Taxation, Information Technology, Business laws and other
	PROGI	RAMME OUTCOME (PO):	Equip with professional, inter personal and entrepreneurial skills.
	2 KOGI		Gear up with updated knowledge in implementing business practices
			Evaluate environmental factors that influence business operation.
			Prepare for post graduate studies and to achieve success in their professional careers
			The course enables the students to enrich themselves in various functional areas such as Accounting, Taxation, Banking, Insurance and Corporate Law.
	PROGRAM	1 SPECIFIC OUTCOME (PSO)	
			provides them with the ability to start entrepreneurial activities.
S.No	Course Code	Course Name	Enables the students to develop an ability to apply knowledge acquired in problem solving  Course Outcome
			Describe various accounting concepts and double entry system of book keeping.
			Understand on how to deal with adjustments in Final accounts and also about preparation of Bank Reconciliation
1	16BPS101	Einensiel Assessatine I	statement.  Acquired knowledge on various types of bill of exchange.
1	10BF3101	Financial Accounting-I	Describe about preparation of Consignment and Joint Venture.
			Understand the concepts of hire purchase and installment system.
			Understanding of the main working aspects of organizations, not only from an economic point of view but also
			Considering organizations as part of society.  Analysis of the economic environment of organizations by means of the development of conceptual areas such as
2	17BPS102	Principles of Business Organisation	industry, human resources and production.
			Knowledge of a comprehensive glossary of economic terms widely used in the analysis and discussion of behavior organization.
			Interpreting the meaning of the information emerging from the organization, particularly with regard to the management of human resources and production, industry and stock exchange
	_		Apply the economic way of thinking to individual decisions and business decisions.
3	16BPSID1	Managerial Economics	Understand how prices get determined in markets, how market participants benefit in the form of consumer surplus and producer surplus, and what are the consequences of government intervention
			Measure the responsiveness of consumers' demand to changes in the price of a good or service, the price of other goods and services, and income
			Advancing knowledge in preparing depreciation accounts
			Preparing the general ledger accounts with chart of accounts
4	16BPS102	Finance and Accounting For Business Process Service	Introducing the system of Account payable system with new technology.
		Service	Familiarizing the concept of Branch account and its system and departmental accounting system.
			Gaining knowledge about International Financial Reporting Standard and International Accounting Standards.
			Understanding the legal rules regarding contract.
			Gaining Knowledge on rules necessary for legal enforcement
			Describing about different kinds of performances of the contract.
5	17BPS202	Commercial Law	Familiarizing Special Contracts
			Identifying the rules and regulations of Sale of Goods Act.
			Understanding about the contract of agency
			Develop ideas of the basic characteristics of Indian economy, its economic growth and development.
6	16BPSID2	Economic Development and Planning	Understand agriculture as the foundation of economic growth and development; analyze the progress and changing nature of agricultural sector and its contribution to the economy as a whole.
			Understand the importance, causes and impact of population growth and its distribution, translate and relate them with economic development.
			Grasp the importance of planning undertaken by the government of India, have knowledge on the various objectives, failures and achievements as the foundation of the ongoing planning and economic reforms taken by the government.
			Employ critical thinking skills to understand the difference between the dissolution of the firm and dissolution of partnership.
7			Prepare financial accounts for Voyage Accounts
	16BPS301	Financial Accounting-II	Prepare financial accounts for Insolvency Accounts
	10213301	· manetai · coounting-ti	To provide an overview of Prerequisites to Business Communication.
			To put in use the basic mechanics of Grammar.
8	16BPS302	Campus to Corporate	To provide an outline to effective Organizational Communication.
			To underline the nuances of Business communication.

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			To impart the correct practices of the strategies of Effective Business writing.
			Understanding the legal rules regarding contract.
			Gaining Knowledge on rules necessary for legal enforcement
			Describing about different kinds of performances of the contract.
9	16BPS303	Commercial Law	Familiarizing Special Contracts
			Identifying the rules and regulations of Sale of Goods Act.
			Understanding about the contract of agency
			Recognize the impact of Information and Communication technologies, especially of the Internet in business operations
			Recognize the fundamental principles of e-Business and e-Commerce
			Distinguish the role of Management in the context of e-Business and e-Commerce
10	16BPS304	E-commerce	Explain the added value, risks and barriers in the adoption of e-Business and e-Commerce
			Examine applications of e-Commerce in relation to the applied strategic
			Use tools and services of the internet in the development of a virtual e-commerce site
			To disseminate knowledge among the students with theoretical structures about banking
			To train and equip the students with the skills of modern banking.
11		Banking Theory and Foreign Exchange	
	16BPSA01/ 16BPSA02		To gain knowledge about negotiable instruments, foreign exchange markets and its operations,
			Contribute to the development, implementation, and evaluation of employee recruitment, selection, and retention plans and processes.
			Administer and contribute to the design and evaluation of the performance management program.
12	16BPSED1	EDC 1 Human resource management	Develop, implement, and evaluate employee orientation, training, and development programs.
			Facilitate and support effective employee and labour relations in both non-union and union environments.
			Collaborate with others, in the development, implementation, and evaluation of organizational and health and safety policies and practices.
			Have a solid foundation in accounting and reporting requirements of the Companies Act and relevant Indian Accounting Standards
	16BPS401		Have a comprehensive understanding of the advanced issues in accounting for assets, liabilities and owner's equity
13		Corporate Accounting I	Understand the treatment regarding issue of bonus shares and treatment of prior period profits
			Understand the accounts related to liquidation of companies
			Understand the valuation of goodwill
			Analyze the various kinds of companies and the appointment of company secretary procedure
			Understand the forms and contents of MOA and AOA and prospectus
14	16BPS402		Structure the various kinds of companies, Transfer and transmission of shares
14	10013402	Company Law and Secretarial Practice	Identify the types of Directors , their Appointment and Qualification
			Analyze the different Modes of Winding Up
			To understand the overview of banking and its types.
			To gain knowledge of new technology for purpose of security
15	17BPS403	Banking For Business Process Service-I	Understanding the concepts of cards, processing, operations and prevention of fraud management in usage of cards.
			Analyzing the various types of customers and its account types.
			Describe the usage of computers and why computers are essential components in business and society.
			Utilize the Internet Web resources and evaluate on-line e-business system.
16	17BPS404	M.S. Office and Tally (Practical)	Solve common business problems using appropriate Information Technology applications and systems.
			Identify categories of programs, system software and applications. Organize and work with files and folders.
			Describe various types of networks network standards and communication software.
			To understand the legal rules and emerging trends in cyber law
17	17BPSA03/ 16BPSA04	A04 Cyber law	To know about the security aspects and evidence aspects in recent emerging laws
	100F3A04		To understand the concepts of electronic data interchange
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			The graduates will be able to
			Have complete knowledge of Finance, Accounting, Taxation, Information Technology, Business laws and other laws
	PROCE	RAMME OUTCOME (PO):	Equip with professional, inter personal and entrepreneurial skills.
	TROOF	AAMME OUTCOME (10).	Gear up with updated knowledge in implementing business practices
			Evaluate environmental factors that influence business operation.
			Prepare for post graduate studies and to achieve success in their professional careers
	PROGRAM	I SPECIFIC OUTCOME (PSO)	Serving as a launch pad for prfessional programmes like CA, ICWA and ACS  Moulding the students in such a way which will make them having superficial knowledge about everything in
		ISTECTIC OCTOME (190)	commerce and in depth knowledge about core subjects
			Provide several opportunities to engage with the accounting professionals
S.NO	COURSE CODE	COURSE NAME	COURSE OUTCOME
			To learn basic knowledge of Accounts
			These units abstract knowledge of Final accounts and BRS
1	18BCP101	Fundamentals of Accounting-I	Learners knowing Bills of exchange and Average due date
			To gain knowledge Consignment and Joint ventures
			To getting the information about Non-profit organisation
			To learn basic knowledge of Management principles
2	15000100	W	Enough knowledge of Planning of management
2	15BCP102	Management Principles and Practice	To get wide knowledge about Organising of Managements
			To gain knowledge of Directing the Organisation
			To getting the information about Coordinating and controlling of managements
			These unit getting information of objective of depreciation
			Learners to getting knowdege of single entry system
3	15BCP201	Fundamentals of Accounting-II	More information to learn about hire purchase trading accounts
			To enrich knowdege branch accounts  To got the knowdege international financial reporting standard
			To enrich the knowdege law of contract
			To Deprive knowdege of special contracts and indemnity and guarantee
4	15BCP202	Business Law	To acquire knowledge of performance of contract
			To getting information of the indemnity and guarantee
			To learn about law relating sales of goods
			Employ critical thinking skills to understand the difference between the dissolution of the firm and dissolution of partnership.
_	Lemone -		Prepare financial accounts for Fire Insurance Claims
5	15BCP301	Advanced Accountancy	Prepare financial accounts for Insolvency Accounts
			Prepare financial accounts for partnership firms in different situations of retirement, death and insolvency of the
			partners.
			Understand the formation and kinds of companies.
	15DODGGG	Comments	To acquire knowledge on documents of the company
6	15BCP302	Company Law and Secretarial Practice	Acquire knowledge on basic documents in a company and various methods of raising of capital.
			Examine the provisions of Companies Act relating to meetings, resolutions and Company Management
			To learn about law relating to winding Up of the company
			Understand and explain the conceptual framework of banking
7	15DCD202	Devoted Doub!	Classify and Demonstrate the types of deposit, cheques, loans and advances
7	15BCP303	Practical Banking	Illustrate the various electronic payment methods
			Acquire knowledge on Negoitable instruments
l	l l		Understand the roles of managers in firms

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				Understand the internal and external decisions to be made by managers
	8	15BCP304	General Economics	Analyze the demand and supply conditions and assess the position of a company
				Make optimal business decisions by integrating the concepts of economics, mathematics and statistics.
				Analyze real-world business problems with a systematic theoretical framework.
				Demonstrate understanding of marketing terminology and concepts
				Demonstrate knowledge of keybusinesscommunication strategies within the marketingfield
	9	15BCPA01	Principles of Marketing	Identify the different promotionalmethods
				Identify wants and environmental factors that shape marketinga ctivities for certain targetmarkets
				Demonstrate knowledge of the online marketing and green marketing
				Acquire the conceptual knowledge of the fundamentals of corporate accounting
				Understand the concepts and standards underlying the accounting procedures used to measure business performance
	10	15BCP401	Corporate Accounting - I	Have a comprehensive knowledge about the latest provisions of the Companies Act.
-				Demonstrate knowledge on issue of shares
				Explain the basic concept of cost and how costs are presented in financial statements.
	11	15BCP402	Cost Accounting	Demonstrate how materials, labor and overhead costs are added to a product at each stage of the production cycle.
				Analyze the basic cost flow model and be able to assign costs in a job cost system.
-				Understand the basic concept of process costing
				Understand the basic auditing principles, concepts, planning an audit and due diligence.  Illustrate the steps required to perform Internal control and Internal check, Vouching and Verification and Valuation of
	12	15BCP403	Practical Auditing	Assets and Liabilities.  Gain expert knowledge on current auditing practices and procedures and apply them in auditing engagements as well as
				detection of frauds
-				Illustrate the steps required to perform of Valuation of Assets and Liabilities.
		15BCP404	BCP404 Industrial and Labour Law	Understand the laws relating to Factories Act
				Toenlighten the concept of Industrial disputes Act
	13			To introduce the basic concept of Workmen compensation Act
				To make them aware about Payment of Wages ACT
-				Describe Trade Unions Act
				Understand the Financial and money market
		15BCPA03		Toenlighten the concept of Securities regulation Act 1956
	14		Management of Financial Markets and Services	To introduce the basic concept of intermediaries and their roles
				To make them aware about SEBI and Mutual Fund
				Describe the concept of Depositories Act 1996
				Enable the students to understand about amalgamation , absorption and external reconstruction
				To make them aware about accounts of banking companies
	15	15BCP501	Corporate Accounting - II	Keep them aware about accounts of insurance companies
				Enable the students to gain an idea of liquidation of companies
-				To introduce and develop knowledge of holding companies accounts
				The students are able to learn the fundamentals of strategic management using the case method.
	16	15BCP502	Strategic Management	Analyse 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.
-				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
			5BCP503 Business Ethics and Corporate Social Responsibility	Awareness about important concept and terminology used in business
	17	15BCP503		Understand the value and Do's and Don'ts of Ethics in business environment
				Better understand the concepts that used in international perspective

			Undestand the role and fuctions of regulatory agencies
			Examine the basic concepts of schedule of rates of tax, tax liability, penalties and prosecution
			Explain the total taxable income of an assessee
18	15BCP504	Taxation -I	Apply and practice the computation of total income
			Apply and practice the computation of salary
			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.
19	15BCP505	Research Methodology	Understand the sampling techniques, preparation of questionnaire and coding techniques
			Apply various parametric tests to test hypothesis
			Develop necessary critical thinking skills in order to formaulate the report writing
			Understand the basic concepts of Entreprenuership
			Understand the scope of entreprenuership
20	15BCPE01	Entrepreneurial Development	understand the project selection procedure
			Awareness about the financial institution in rendering financialservices
			Awareness about schemes that available for retriving sick industry
		Management Accounting	Acquire knowledge on Three primary purposes of management accounting namely, inventory valuation, decision support and cost control.
			Compare traditional and contemporary costing approaches for the above purposes.
21	15BCP601		Learn how costs are analysed for different product costing contexts such as job-order, process or joint-product systems
			Develop and apply standards and budgets for planning and controlling purposes
			Apply incremental analysis to a range of business scenarios.
			Understanding the concept of investment
			Acquire the conceptual knowledge of the risk and analysing the return on investment
22	15BCP602	Investment Management	Awareness about the security analysis and approches to security analysis
			Learn how price are analysed for stock and taking decisions for efficient market Hypothesis
			Awareness about the portfolio management
			Understand the basic principles underlying the Indirect Taxation Statutes
23	15BCP603	Taxation -II	Identify and analyze the procedural aspects under different applicable statutes related to indirect taxation
			Examine the concepts used in indirect tax, assessment, powers, duties, offences, penalties etc.
			Acquire knowledge on GST
			Acquire knowledge on GST and its procedure
			Understand both the theoretical and practical role of financial management in the business firm
24	18BCPE04	Financial Management	Apply financial management concepts and tools to the Problems faced by a manager in Budgeting decisions
2.	10201201	1 maiota Patingonosi	Understand the outside influences of economic and political factors on various sources of funds with their costs
			Justify the contemporary financial management strategies which are preferred to specific projects
			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.
25	15DCDE07	Human Bassayer Mercennet	Apply Human Resource Planning, Recruitment and Selection and skills across various types of organizations.
25	13BCPE0/	BCPE07 Human Resource Management	Know about the Interview process, Induction and Orientation, Training techniques.
			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.

## B.Sc (Computer Science)

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			Attain the core value in their respective area to meet out the global competitive edge.
			Apply and update their skills towards their employability, entrepreneurship and its sustainability.
	PROGI	RAMME OUTCOME (PO):	
			Realize their responsibility towards the society centre through ethical, social and human values.
			Recognize the opportunities towards their up gradation and professional development in all spheres.
			Ensure the quality in terms of all the aspects by the way of their contribution in work atmosphere.
			Serve as the Programmers or the Software Engineers or Hardware Designers with the sound knowledge of practical and theoretical concepts for developing software and Networking Concepts.
		IE SPECIFIC OUTCOME (PSO):	To Give Technical Support for the various systems and Serve as the Web Designers with latest web development technologies
S.No	Course Code	Course Name	Work as Consultant and Management officers for system management.  Course Outcome
			Bridge the fundamental concepts of computers with the present level of knowledge of the students.
		Core 1 Digital Commuter Fundamentals & C	Familiarise operating systems, programming languages, peripheral devices, networking, multimedia and internet.
1	18BSC101	Core 1- Digital Computer Fundamentals & C Programming	Understand binary, hexadecimal and octal number systems and their arithmetic.
			Understand how logic circuits and Boolean algebra forms as the basics of digital computer.
			Demonstrate the building up of Sequential and combinational logic from basic gates.
			Understand the concept of data types, loops, functions, array, pointers, string, structures and files.
2	18BSCP01	Core Lab I – C Programming lab	Design flow-chart, algorithm and program logic.
_		g	Analyze problems, errors and exceptions.
			Apply programming concepts to compile and debug c programs to find solutions.
			Write C programs using Pointers toaccess arrays, strings and functions.
			Understand the features of C++ supporting object oriented programming
			Understand how to produce object-oriented software using C++
4	15BSC201	Core 2: Object Oriented Programming in C++	Illustrate the process of data file manipulations using C++
			Apply virtual and pure virtual function & complex programming situations
			To analyze characteristics of OOPand implement OOP in various applications  Distinguish between Structured and Object Oriented problem solving approaches and apply them based on the problem
			given
			Identify classes and objects from the given problem description and able to create classes and objects using C++
5	18BSCP02	Core Lab 2 - C++ Programming Lab	Improve secured data processing by applying Abstraction, Encapsulation and Information hiding
			Achieve code reusability and extensibility by means of Inheritance and Polymorphism.
			Translate the informal description of an algorithm to solutions for problems in engineering, science and text processing using Object Oriented Programming.
			Access how the chains of data structures and algorithm design marks to impost the nonformance of a
			Assess how the choice of data structures and algorithm design methods impacts the performance of programs.
		Core 3: Data Structures	Choose the appropriate data structure and algorithm design method for a specified application.  Solve problems using data structures such as linear lists, stacks, queues, hash tables, binary trees, heaps, binary search
6	15BSC301	2 J. Dan Statutes	trees, and graphs and writing programs for these solutions
			Understandthe behavior of advanceddata structure
			Analyze and determine the appropriate data structure for aproblem.
			Apply the algorithms and design techniques to solve problems.
			Identifyclasses, objects, members of a class and relationships among them needed for a specific problem
			Use an integrated development environment to write, compile, run, and test simple object-oriented Java programs.
7	15BSC302	Core 4: Java Programming	
			Demonstratethe concepts of polymorphism and inheritance
			Identify and fix defects and common security issues in code
			Able to visualize layered approach to networking and understand various application layer protocols
			Able to understand transport layer concepts, protocols & services.
8	15BSC303	Core 5 : Computer Networks	Able to demonstratethe basic understanding of network layer, routing principles,IPv6.
			Able todevelope fundamental understanding of Link layer,multiple access protocol, ANaddresses & ARP, CSMA / CD, PPP details
			Able to describe basic concepts and algorithms of cryptography including Hash functions , digital signatures, SSL, SET & IPSec
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			Use the object oriented concepts of java for the given problem.
			Understand the enabling technologies for building internet applications.
9	15BSCP03	Core Lab 3: Java Programming Lab	Write Java programs for techniques and features of the networking and remote method development to Construct a internet application.
			Implement packages, access specifiers and interfaces in a program
			Write JAVA programs to demonstrate method overloading
			Developed understanding of technical aspect of Multimedia Systems.
			Able to Understand various file formats for audio, video and text media.
			Able to Develop various Multimedia Systems applicable in real time.
10	18BSCA01/ 18BSCA02	AOC I Multimedia Lab /Python Lab	Able to Design interactive multimedia software.
	102001102		
			To evaluate multimedia application for its optimum performance.
			Use the techniques, components and tools of a typical database management system.  Design a correct, new database information system for a business functional area and implement the design in either
			SQL or NoSQL
11	15BSC401	Core 6 : Data Base Management System	Understand the concepts of open source databases like MongoDB and MySQL.
			To Know the concepts of SQL, PL/SQL, Triggers , cursors and Normalization
			Understand, appreciate and effectively explain the underlying concepts of database technologies
			create a PHP web page that is unique to each visitor
			customise the theme for a WordPress site
12	15BSC402	Core 7: Web Designing	perform various MySQL database queries
12	13250102	Colo 7. Web Besigning	seek solutions to any PHP problems and further your knowledge.
			:use PHP-driven dynamic content in HTML5 animations
			Able todescribe process management and concepts of threading, multitasking,IPC.
			Able todifferentiation of various scheduling algorithms and identify the reasons of deadlock and their remedial measures in an operating system
13	15BSC403	Core 8: Operating Systems	Able todescribe various memory management techniques
			Able tounderstand representation of file system interface.
			Able to Analyze of disk scheduling algorithms for efficient utilization.
			Design, develop and host a userfriendly website.
			Knowthe usage of APIs
14	15BSCP04	Core Lab 4: Web Designing Lab	Layout management in line with current trend.
			Use fundamental skills to maintain web server services required to host a website.
			Select and apply markup languages for processing, identifying, and presenting of information in web pages.
			Describe Hardware and Software Technologies
			Analyze abstract problems and apply a combination of hardware and software to address the problem
15	18BSCA03/	AOC II :PC Hardware / Application Development	Study and enhance software/ hardware skills.
	15BSCA04	in Android	Demonstrate and build the project successfully by hardware requirements, coding, emulating and testing.
			Analyze the various tools in hardware
			Able to understand the different process models and project management concepts
			Able to develop skills for cost estimation for software development and understand the software risks.
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16	15BSC501	Con O. Software Facility since	
16	15B8C501	Core 9: Software Engineering	Able to enhance teamwork ability in project scheduling and apply the concepts of software quality assurance
			Able to relate and outline system engineering and product engineering process.
			Able toapply requirement mapping strategies for development of software.
			Understand the Microsoft .NET Framework and ASP.NET page structure
			Design web application with variety of controls
17	15BSC502	Core 10: ASP.Net Programming	Access the data using inbuilt data access tools
.,	13200302	Cole 10.1101 in tel 110gramming	Use Microsoft ADO.NET to access data in web Application
			Configure and deploy Web Application
			Develop secured web application
			demonstrate knowledge of the basic elements and concepts related to distributed system technologies;
			Demonstrate knowledge of the core architectural aspects of distributed systems;
18	15BSC503	Core 11: Distributed Computing	Design and implement distributed applications.
			Demonstrate knowledge of details the main underlying components of distributed systems (such as RPC, file systems)
			Use and apply important methods in distributed systems to support scalability and fault tolerance
			Have a basic understanding of the core concepts of computer graphics
			Be capable of using OpenGL to create interactive computer graphics.
19	15BSC504	Core 12: Computer Graphics	Understand a typical graphics pipeline.
			Have made pictures with their computer
			To make the students familiar with techniques of clipping, three dimensional graphics and three dimensional transformations.
			The computer graphics course prepares students for activities involving in design, development and testing of modeling, rendering, shading and animation.
			Upon successful course completion the conceptsof this third generation component model and thefirst component based language
			The standard of the control of the standard of
			The students able to create simple webapplications and window applications
20	15BSCP05	Core Lab 5: ASP.Net Programming Lab	You will be able to using XML in C#.NET specifically ADO.NET and SQL serve
20	15BSCP05	Core Lab 5: ASP.Net Programming Lab	You will be able to using XML in C#.NET specifically ADO.NET and SQL serve  To develop Assemblies and Deployment in .NET, Mobile Application Development
20	15BSCP05	Core Lab 5: ASP.Net Programming Lab	You will be able to using XML in C#.NET specifically ADO.NET and SQL serve
20	15BSCP05	Core Lab 5: ASP.Net Programming Lab	You will be able to using XML in C#.NET specifically ADO.NET and SQL serve  To develop Assemblies and Deployment in .NET, Mobile Application Development  To understand and be able to explain Security in the .NET framework and Deployment in the .NET.
20	15BSCP05	Core Lab 5: ASP.Net Programming Lab	You will be able to using XML in C#.NET specifically ADO.NET and SQL serve  To develop Assemblies and Deployment in .NET, Mobile Application Development  To understand and be able to explain Security in the .NET framework and Deployment in the .NET.  Create and analyze activity and state diagrams
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20	17BSCE01/ 15BSCE02/	Elective I: Open Source Technologies / System	You will be able to using XML in C#.NET specifically ADO.NET and SQL serve  To develop Assemblies and Deployment in .NET, Mobile Application Development  To understand and be able to explain Security in the .NET framework and Deployment in the .NET.  Create and analyze activity and state diagrams  Implementation of the diagrams in Unified Modeling Language  Documenting user requirements using the UML notation
	17BSCE01/		You will be able to using XML in C#.NET specifically ADO.NET and SQL serve  To develop Assemblies and Deployment in .NET, Mobile Application Development  To understand and be able to explain Security in the .NET framework and Deployment in the .NET.  Create and analyze activity and state diagrams  Implementation of the diagrams in Unified Modeling Language  Documenting user requirements using the UML notation  Description of the various components of UML
	17BSCE01/ 15BSCE02/	Elective I: Open Source Technologies / System	You will be able to using XML in C#.NET specifically ADO.NET and SQL serve  To develop Assemblies and Deployment in .NET, Mobile Application Development  To understand and be able to explain Security in the .NET framework and Deployment in the .NET.  Create and analyze activity and state diagrams  Implementation of the diagrams in Unified Modeling Language  Documenting user requirements using the UML notation  Description of the various components of UML  Principlesofsoftwaredevelopmentprocess
	17BSCE01/ 15BSCE02/	Elective I: Open Source Technologies / System	You will be able to using XML in C#.NET specifically ADO.NET and SQL serve  To develop Assemblies and Deployment in .NET, Mobile Application Development  To understand and be able to explain Security in the .NET framework and Deployment in the .NET.  Create and analyze activity and state diagrams  Implementation of the diagrams in Unified Modeling Language  Documenting user requirements using the UML notation  Description of the various components of UML  Principlesofsoftwaredevelopmentprocess  Understandingandimplementationofasoftwaredevelopmentproces
	17BSCE01/ 15BSCE02/	Elective I: Open Source Technologies / System	You will be able to using XML in C#.NET specifically ADO.NET and SQL serve  To develop Assemblies and Deployment in .NET, Mobile Application Development  To understand and be able to explain Security in the .NET framework and Deployment in the .NET.  Create and analyze activity and state diagrams  Implementation of the diagrams in Unified Modeling Language  Documenting user requirements using the UML notation  Description of the various components of UML  Principlesofsoftwaredevelopmentprocess  Understandingandimplementationofasoftwaredevelopmentproces  Create and analyze activity and state diagrams
	17BSCE01/ 15BSCE02/	Elective I: Open Source Technologies / System	You will be able to using XML in C#.NET specifically ADO.NET and SQL serve  To develop Assemblies and Deployment in .NET, Mobile Application Development  To understand and be able to explain Security in the .NET framework and Deployment in the .NET.  Create and analyze activity and state diagrams  Implementation of the diagrams in Unified Modeling Language  Documenting user requirements using the UML notation  Description of the various components of UML  Principlesofsoftwaredevelopmentprocess  Understandingandimplementationofasoftwaredevelopmentproces  Create and analyze activity and state diagrams  Implementation of the diagrams in Unified Modeling Language
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	17BSCE01/ 15BSCE02/	Elective I: Open Source Technologies / System	You will be able to using XML in C#.NET specifically ADO.NET and SQL serve  To develop Assemblies and Deployment in .NET, Mobile Application Development  To understand and be able to explain Security in the .NET framework and Deployment in the .NET.  Create and analyze activity and state diagrams  Implementation of the diagrams in Unified Modeling Language  Documenting user requirements using the UML notation  Description of the various components of UML  Principlesofsoftwaredevelopmentprocess  Understandingandimplementationofasoftwaredevelopmentproces  Create and analyze activity and state diagrams  Implementation of the diagrams in Unified Modeling Language  Documenting user requirements using the UML notation  Description of the various components of UML  Learn the Internet Programming, using Java Applets
21	17BSCE01/ 15BSCE02/ 15BSCE03	Elective I: Open Source Technologies / System Software/Unified Modeling Language	You will be able to using XML in C#.NET specifically ADO.NET and SQL serve  To develop Assemblies and Deployment in .NET, Mobile Application Development  To understand and be able to explain Security in the .NET framework and Deployment in the .NET.  Create and analyze activity and state diagrams  Implementation of the diagrams in Unified Modeling Language  Documenting user requirements using the UML notation  Description of the various components of UML  Principlesofsoftwaredevelopmentprocess  Understandingandimplementationofasoftwaredevelopmentproces  Create and analyze activity and state diagrams  Implementation of the diagrams in Unified Modeling Language  Documenting user requirements using the UML notation  Description of the various components of UML  Learn the Internet Programming, using Java Applets  Make a resusable software component, using Java Bean
	17BSCE01/ 15BSCE02/	Elective I: Open Source Technologies / System	You will be able to using XML in C#.NET specifically ADO.NET and SQL serve  To develop Assemblies and Deployment in .NET, Mobile Application Development  To understand and be able to explain Security in the .NET framework and Deployment in the .NET.  Create and analyze activity and state diagrams  Implementation of the diagrams in Unified Modeling Language  Documenting user requirements using the UML notation  Description of the various components of UML  Principlesofsoftwaredevelopmentprocess  Understandingandimplementationofasoftwaredevelopmentproces  Create and analyze activity and state diagrams  Implementation of the diagrams in Unified Modeling Language  Documenting user requirements using the UML notation  Description of the various components of UML  Learn the Internet Programming, using Java Applets  Make a resusable software component, using Java Bean  Demonstratethe concepts of polymorphism and inheritance
21	17BSCE01/ 15BSCE02/ 15BSCE03	Elective I: Open Source Technologies / System Software/Unified Modeling Language	You will be able to using XML in C#.NET specifically ADO.NET and SQL serve  To develop Assemblies and Deployment in .NET, Mobile Application Development  To understand and be able to explain Security in the .NET framework and Deployment in the .NET.  Create and analyze activity and state diagrams  Implementation of the diagrams in Unified Modeling Language  Documenting user requirements using the UML notation  Description of the various components of UML.  Principlesofsoftwaredevelopmentprocess  Understandingandimplementationofasoftwaredevelopmentproces  Create and analyze activity and state diagrams  Implementation of the diagrams in Unified Modeling Language  Documenting user requirements using the UML notation  Description of the various components of UML  Learn the Internet Programming, using Java Applets  Make a resusable software component, using Java Bean  Demonstratethe concepts of polymorphism and inheritance  Identify and fix defects and common security issues in code
21	17BSCE01/ 15BSCE02/ 15BSCE03	Elective I: Open Source Technologies / System Software/Unified Modeling Language	You will be able to using XML in C#.NET specifically ADO.NET and SQL serve  To develop Assemblies and Deployment in .NET, Mobile Application Development  To understand and be able to explain Security in the .NET framework and Deployment in the .NET.  Create and analyze activity and state diagrams  Implementation of the diagrams in Unified Modeling Language  Documenting user requirements using the UML notation  Description of the various components of UML  Principlesofsoftwaredevelopmentprocess  Understandingandimplementationofasoftwaredevelopmentproces  Create and analyze activity and state diagrams  Implementation of the diagrams in Unified Modeling Language  Documenting user requirements using the UML notation  Description of the various components of UML  Learn the Internet Programming, using Java Applets  Make a resusable software component, using Java Bean  Demonstratethe concepts of polymorphism and inheritance
21	17BSCE01/ 15BSCE02/ 15BSCE03	Elective I: Open Source Technologies / System Software/Unified Modeling Language	You will be able to using XML in C#.NET specifically ADO.NET and SQL serve  To develop Assemblies and Deployment in .NET, Mobile Application Development  To understand and be able to explain Security in the .NET framework and Deployment in the .NET.  Create and analyze activity and state diagrams  Implementation of the diagrams in Unified Modeling Language  Documenting user requirements using the UML notation  Description of the various components of UML.  Principlesofsoftwaredevelopmentprocess  Understandingandimplementationofasoftwaredevelopmentproces  Create and analyze activity and state diagrams  Implementation of the diagrams in Unified Modeling Language  Documenting user requirements using the UML notation  Description of the various components of UML.  Learn the Internet Programming, using Java Applets  Make a resusable software component, using Java Bean  Demonstratethe concepts of polymorphism and inheritance  Identify and fix defects and common security issues in code  Identifyclasses, objects, members of a class and relationships among them needed for a specific problem
21	17BSCE01/ 15BSCE02/ 15BSCE03	Elective I: Open Source Technologies / System Software/Unified Modeling Language	You will be able to using XML in C#.NET specifically ADO.NET and SQL serve  To develop Assemblies and Deployment in .NET, Mobile Application Development  To understand and be able to explain Security in the .NET framework and Deployment in the .NET.  Create and analyze activity and state diagrams  Implementation of the diagrams in Unified Modeling Language  Documenting user requirements using the UML notation  Description of the various components of UML.  Principlesofsoftwaredevelopmentprocess  Understandingandimplementationofasoftwaredevelopmentproces  Create and analyze activity and state diagrams  Implementation of the diagrams in Unified Modeling Language  Documenting user requirements using the UML notation  Description of the various components of UML  Learn the Internet Programming, using Java Applets  Make a resusable software component, using Java Bean  Demonstratethe concepts of polymorphism and inheritance  Identify and fix defects and common security issues in code

23	15BSC602	Core 14: Information Security	Gain familiarity with prevalent network and distributed system attacks, defenses against them, and forensics to investigate the aftermath.  Determine appropriate mechanisms for protecting information systems ranging from operating systems to database management systems and to applications.  Develop an understanding of information assurance as practiced in computer operating systems, distributed systems, networks and representative applications
24	15BSCP06	Core Lab 6: Application Development in Java Lab	Able to specify the types of inheritance and use them in programs.  WriteJava application programs using OOP principles and proper program structuring  WriteJava programs to implement error handling techniques using exception handling  Write JAVA programs to demonstrate method overloading  Identify usage of collection framework
25	15BSCE04/ 15BSCE05/ 15BSCE06	Elective II: Data Mining/ Artificial Intelligence/ Network Security and Cryptography	Demonstrate an understanding of the importance of data mining and the principles of business intelligence  Organize and Prepare the data needed for data mining using pre preprocessing techniques  Perform exploratory analysis of the data to be used for mining.  Implement the appropriate data mining methods like classification, clustering or Frequent Pattern mining on large data sets.  Student will be able to understand basic cryptographic algorithms, message and web authentication and security issues.  Ability to identify information system requirements for both of them such as client and server.  Ability to understand the current legal issues towards information security  Understand the various searching techniques, constraint satisfaction problem and example problems-game playing techniques in applications which involve perception, reasoning and learning  Acquire the knowledge of real world Knowledge representation.
26	15BSCE07/ 15BSCE08/ *17BSCE09	Elective III: Mobile Computing/ Cloud Computing/ Internet of Things	Evaluate the architecture and principles of operation of computer systems and networks.  Design and develop software systems for various application domains.  Manage the development of software systems through a variety of development processes and methodologies.  Synthesize new knowledge in the field of computer science by using appropriate research methodologies.  Demonstrate the ability to design a system, componentor process as per needs and specifications.  Apply the concepts of IOT.  Identify the different technology.  Apply IOT to different applications.  Analysis and evaluate protocols used in IOT.  Design and develop smart city in IOT.  Analysis and evaluate the data received through sensors in IOT.  Provide a good understanding of cloud computing and a systematic knowledge of the fundamental technologies, architecture, and security.  Core issues of cloud computing such as security, privacy, and interoperability

# B.Sc (INFORMATIONTECHNOLOGY)

	After the completion of the under graduate programme in Bachelor of Science (B.Sc Degree), the graduates will be able to
	Attain the core value in their respective area to meet out the global competitive edge.
PROGRAMME OUTCOME (PO):	Apply and update their skills towards their employability, entrepreneurship and its sustainability.
	Realize their responsibility towards the society centre through ethical, social and human values.
	Recognize the opportunities towards their up gradation and professional development in all spheres.
	Ensure the quality in terms of all the aspects by the way of their contribution in work atmosphere.
	Understand the field of Information Technology, to provide holistic knowledge about Software and analyze the relationship among storing, processing, securing and managing information.
PROGRAMME SPECIFIC OUTCOME (PSO):	sustainable development and Acquire the knowledge in the various fields of Information Technology including Networks, Testing, Information Security, Databases and Programming skills.

			B.Sc IT graduates are hired as Programmer, Database Administrator, IT Specialists, Technology Engineer, and Web Designer.
S.NO	COURSE CODE	COURSE NAME	COURSE OUTCOME
1	18BIT101	Core 1 – Programming in C	Develop conditional and iterative statements to write C programs
			Inscribe C programs that use Pointers toaccess arrays, strings and functions.
			Exercise user defined data typesincluding structures and unions to solve problems
			Inscribe C programs using pointers andto allocate memory using dynamic memorymanagement functions.
			Exercise files concept to show input andoutput of files in C
			Understand basic Structure of the C-PROGRAMMING, declaration andusage of variables
2	18BITP01	Coro Loh 1 Cloh	Write C programs using operators
2	186111701	Core Lab 1 - C Lab	Exercise conditional and iterativestatements to Write C programs
			Write C programs using Pointers toaccess arrays, strings and functions.
			Write C programs to implement concept of command line arguments
			Describe the procedural and object oriented paradigm with concepts of streams, classes, functions, data and objects.
		Core 2 - Object Oriented Programming with C++	Understand dynamic memory management techniques using pointers, constructors, destructors, etc
3	18BIT102		Describe the concept of function overloading, operator overloading.
			Classify inheritance with the understanding of early and late binding, usage of exception handling, generic
			programming.  Describe the concept of virtual functions and polymorphism.
			Student will Understand functions in C++ programming.
4	18BITP02	Core Lab 2 - C++ Lab	Understand the concept of function overloading ,operator overloading .
	102111 02	Core Lab 2 - C++ Lab	Demonstrate the use of classes and objects.
			Demonstrate the use of constructors, destructors, polymorphism, inline functions.
			Write, compile and execute c++ programs using virtual functions and files.  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, and JDeveloper 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
5	15BIT301	Core 3 – Java Programming	Write, compile, and execute Java programs using arrays and recursion.
			Write, compile, and execute Java programs manipulating Strings and text documents.
			Write, compile, execute Java programs that include GUIs and event driven programming.
			Select appropriate data structures as applied to specified problem definition.
	15BIT302	Core 4 - Data Structures	Implement operations like searching, insertion, and deletion, traversing mechanism etc. on various data structures.
6			Students will be able to implement Linear and Non-Linear data structures.
			Implement appropriate sorting/searching technique for given problem.
			Determine and analyze the complexity of given Algorithms.
			Describe basic organization of computer and the architecture of 8086 microprocessor.
		Core 5 - Computer Organization & Architecture	Implement assembly language program for given task for 8086 microprocessor.
7	15BIT303		Demonstrate control unit operations and conceptualize instruction level parallelism.
			Categorize memory organization and explain the function of each element of a memory hierarchy.
			Identify and compare different methods for computer I/O mechanisms.
	15BITP03	SBITP03 Core Lab 3 – Java Programming Lab	Know about new ideas and advances, techniques, and tools and to use them effectively
8			Implement Object Oriented Programming Concepts
			Use and create packages and interfaces in a Java program
			Use graphical user interface in Java programs

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			Create Applets and implementing exception handling and multithreading concepts.  Recognize contemporary MIS theory and how information systems support business strategy, business processes, and
			practical applications in an organization.
9	15BITA01	AOC I - Management Information System	Describe how the Internet and World Wide Web provide a global platform for e-business, business mobility and communications, collaboration, and cloud computing
		,	Express the proven value of, and relationship between business data, data management, and business intelligence
			Combine analytical thinking, creativity and business-problem-solving as applied to ongoing MIS challenges, future trends, and relevant case studies
			Define and differentiate various types of Ecommerce.
10	15BITA02	AOC I -E- Commerce	Describe Hardware and Software Technologies for Ecommerce.
10	13B11A02	AOC 1 -E- Commerce	Explain payment systems for E - commerce.
			Describe the process of Selling and Marketing on web.
			Describe the benefits and architecture of Client Server Technology.
			Understand the concepts of CORBA, RMI and .Net technologies
11	15BIT401	Middleware Technologies	Apply the components of C# .Net technology to given applications
			Classify the architecture of CORBA and mapping the CORBA with existing Programming languages like Java.
			Implement integration of component based architectures with Enterprise applications  Describe the functions of each layer in OSI and TCP/IP model.
			Describe the functions of each layer in OSI and TCP/IP model.  Explain the functions of Application layer and Presentation layer paradigms and Protocols.
			Explain the functions of Application layer and Presentation layer paradigms and Protocols.  Describe the Session layer design issues
12	15BIT402	Computer Networks	and Tenanner lavag protocols and
			analyze how to  Identify the various computer network protocol design models and the usage of various types of transmission media and
			working of LAN technology
			Familiarize the variouswireless LAN concepts and the design of adhoc wireless network
			Able to describe process management and concepts of threading, multitasking,IPC.  Able to differentiation of various scheduling algorithms and identify the reasons of deadlock and their remedial
13	15BIT403	Core 8 – Operating System	measures in an operating system.
15	13311403	core o Operating System	Able to describe various memory management techniques.
			Able to Analyze of disk scheduling algorithms for efficient utilization.
			Able to apply the concepts of operating system to study Linux.
			learn the Internet Programming, using Java Applets
			apply event handling on AWT and Swing components.
14	15BITP04	Middleware technologies lab	learn to access database through Java programs, using Java Data Base Connectivity (JDBC)
			create dynamic web pages, using Servlets and JSP.
			make a resusable software component, using Java Bean.
			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).
			Understand the principles of creating an effective web page, including an in-depth consideration of information architecture.
15	15BITA03	AOC II - Web Designing	Develop skills in analyzing the usability of a web site.
			Learn the language of the web: HTML and CSS.
			Be able to embed social media content into web pages.
			To introduce the embedded Hardware and Interfacing.
16	15BITA04	AOC II-Embedded System	To make the students familiar with software development & tools for embedded systems.
			The objective of the course is to cover the Hardware Design, Software Development & RTOS for the Embedded Systems.
			Ability to use ANSI C to develop embedded software.
		5BIT501 Core 9 Net Framework	Upon successful course completion the concepts of.NET framework
	15BIT501		The students able to create simple webapplications and window applications
17			Able to connect database using ADO.NET in C#.NET
			To develop Assemblies and Deployment in .NET, Mobile Application Development
			To understand and be able to explain Exception handling and Threads
			To understand and be able to explain Exception handling and Threads  Evaluate the architecture and principles of operation of computer systems and networks.

18	15BIT502	Core 10 – Mobile Computing	Design and develop software systems for various application domains.
			Manage the development of software systems through a variety of development processes and methodologies.
			Synthesize new knowledge in the field of computer science by using appropriate research methodologies.
			Demonstrate the ability to design a system, componentor process as per needs and specifications.
19	15BIT503		Able to understand the different process models and project management concepts
			Able to develop skills for cost estimation for software development and understand the software risks.
		Core 11 – Software Engineering	Able to enhance teamwork ability in project scheduling and apply the concepts of software quality assurance
			Able to relate and outline system engineering and product engineering process.
			Able toapply requirement mapping strategies for development of software.
			Understand, appreciate and effectively explain the underlying concepts of database technologies
			Design and implement a database schema for a given problem-domain
20	15BIT504	Core 12 – RDBMS	
			Populate and query a database using SQL DML/DDL commands
			Declare and enforce integrity constraints on a database using a state-of-the-artRDBMS
			To Know the concepts of SQL, PL/SQL, Triggers, cursors and Normalization
			Able to understand the console application creation and its implementation
21	15BITP05	Core Lab 5 - Net Framework Lab	Describe how to upload the document file in our own directory
21	13611103	Core Lao 5 - Net Framework Lao	Demonstrate the basic DML Operations
			Descirbes how to transact records in database
			Illustrate hot to generate a data report
			Students can able to Design the architecture for an agent
			Students can able to Design the agent in details in a view for the implementation
22	15BITE01	Elective I - Software Agents	Students can able to Design typical agents using a tool for different types of applications
			Able to understand the different types of agents.
			Know about the tools.
			Know about the tools.  Able to apply knowledge and awareness of the basic principles and concepts of biology, computer science and mathematics
			Able to apply knowledge and awareness of the basic principles and concepts of biology, computer science and
23	15BITE02	Elective I - Bio – Informatics	Able to apply knowledge and awareness of the basic principles and concepts of biology, computer science and mathematics  Existing software effectively to extract information from large databases and to use this information in computer
23	15BITE02	Elective I - Bio – Informatics	Able to apply knowledge and awareness of the basic principles and concepts of biology, computer science and mathematics  Existing software effectively to extract information from large databases and to use this information in computer modeling
23	15BITE02	Elective I - Bio – Informatics	Able to apply knowledge and awareness of the basic principles and concepts of biology, computer science and mathematics  Existing software effectively to extract information from large databases and to use this information in computer modeling  Problem-solving skills, including the ability to develop new algorithms and analysis methods the ability to speak the language of structure-function relationships, information theory, gene expression, and database
23	15BITE02	Elective I - Bio – Informatics	Able to apply knowledge and awareness of the basic principles and concepts of biology, computer science and mathematics  Existing software effectively to extract information from large databases and to use this information in computer modeling  Problem-solving skills, including the ability to develop new algorithms and analysis methods the ability to speak the language of structure-function relationships, information theory, gene expression, and database queries  Students will Create computer programs that facilitate biological data analysis
23	15BITE02	Elective I - Bio – Informatics	Able to apply knowledge and awareness of the basic principles and concepts of biology, computer science and mathematics  Existing software effectively to extract information from large databases and to use this information in computer modeling  Problem-solving skills, including the ability to develop new algorithms and analysis methods the ability to speak the language of structure-function relationships, information theory, gene expression, and database queries  Students will Create computer programs that facilitate biological data analysis  Describes basic data mining tasks, KDD process and various databases techniques
23	15BITE02	Elective I - Bio – Informatics  Elective I - Data Mining & Warehousing	Able to apply knowledge and awareness of the basic principles and concepts of biology, computer science and mathematics  Existing software effectively to extract information from large databases and to use this information in computer modeling  Problem-solving skills, including the ability to develop new algorithms and analysis methods  the ability to speak the language of structure-function relationships, information theory, gene expression, and database queries  Students will Create computer programs that facilitate biological data analysis  Describes basic data mining tasks . KDD process and various databases techniques  Describes why to preprocess the data and the concept of data cleaning, intergration
			Able to apply knowledge and awareness of the basic principles and concepts of biology, computer science and mathematics  Existing software effectively to extract information from large databases and to use this information in computer modeling  Problem-solving skills, including the ability to develop new algorithms and analysis methods the ability to speak the language of structure-function relationships, information theory, gene expression, and database queries  Students will Create computer programs that facilitate biological data analysis  Describes basic data mining tasks, KDD process and various databases techniques  Describes why to preprocess the data and the concept of data cleaning, intergration  Illustrate the social implications of Data Mining
			Able to apply knowledge and awareness of the basic principles and concepts of biology, computer science and mathematics  Existing software effectively to extract information from large databases and to use this information in computer modeling  Problem-solving skills, including the ability to develop new algorithms and analysis methods  the ability to speak the language of structure-function relationships, information theory, gene expression, and database queries  Students will Create computer programs that facilitate biological data analysis  Describes basic data mining tasks, KDD process and various databases techniques  Describes why to preprocess the data and the concept of data cleaning, intergration  Illustrate the social implications of Data Mining  Able to understand the various classification of algorithms like distance, decision tree based, neural network algorithms
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24	15BITE03	Elective I - Data Mining & Warehousing	Able to apply knowledge and awareness of the basic principles and concepts of biology, computer science and mathematics  Existing software effectively to extract information from large databases and to use this information in computer modeling  Problem-solving skills, including the ability to develop new algorithms and analysis methods  the ability to speak the language of structure-function relationships, information theory, gene expression, and database queries  Students will Create computer programs that facilitate biological data analysis  Describes basic data mining tasks, KDD process and various databases techniques  Describes why to preprocess the data and the concept of data cleaning, intergration  Illustrate the social implications of Data Mining  Able to understand the various classification of algorithms like distance, decision tree based, neural network algorithms  Defines the clustering and association rules followed in data mining  Understand how server-side programming works on the web.  PHP Basic syntax for variable types and calculations.
24	15BITE03	Elective I - Data Mining & Warehousing	Able to apply knowledge and awareness of the basic principles and concepts of biology, computer science and mathematics  Existing software effectively to extract information from large databases and to use this information in computer modeling  Problem-solving skills, including the ability to develop new algorithms and analysis methods the ability to speak the language of structure-function relationships, information theory, gene expression, and database queries  Students will Create computer programs that facilitate biological data analysis  Describes basic data mining tasks, KDD process and various databases techniques  Describes why to preprocess the data and the concept of data cleaning, intergration  Illustrate the social implications of Data Mining  Able to understand the various classification of algorithms like distance, decision tree based, neural network algorithms  Defines the clustering and association rules followed in data mining  Understand how server-side programming works on the web.  PHP Basic syntax for variable types and calculations.  Creating conditional structures
24	15BITE03	Elective I - Data Mining & Warehousing	Able to apply knowledge and awareness of the basic principles and concepts of biology, computer science and mathematics  Existing software effectively to extract information from large databases and to use this information in computer modeling  Problem-solving skills, including the ability to develop new algorithms and analysis methods  the ability to speak the language of structure-function relationships, information theory, gene expression, and database queries  Students will Create computer programs that facilitate biological data analysis  Describes basic data mining tasks, KDD process and various databases techniques  Describes why to preprocess the data and the concept of data cleaning, intergration  Illustrate the social implications of Data Mining  Able to understand the various classification of algorithms like distance, decision tree based, neural network algorithms  Defines the clustering and association rules followed in data mining  Understand how server-side programming works on the web.  PHP Basic syntax for variable types and calculations.  Creating conditional structures  Storing data in arrays
24	15BITE03	Elective I - Data Mining & Warehousing	Able to apply knowledge and awareness of the basic principles and concepts of biology, computer science and mathematics  Existing software effectively to extract information from large databases and to use this information in computer modeling  Problem-solving skills, including the ability to develop new algorithms and analysis methods the ability to speak the language of structure-function relationships, information theory, gene expression, and database queries  Students will Create computer programs that facilitate biological data analysis  Describes basic data mining tasks, KDD process and various databases techniques  Describes why to preprocess the data and the concept of data cleaning, intergration  Illustrate the social implications of Data Mining  Able to understand the various classification of algorithms like distance, decision tree based, neural network algorithms  Defines the clustering and association rules followed in data mining  Understand how server-side programming works on the web.  PHP Basic syntax for variable types and calculations.  Creating conditional structures  Storing data in arrays  Using PHP built-in functions and creating custom functions
24	15BITE03	Elective I - Data Mining & Warehousing  Core 13 - PHP Programming	Able to apply knowledge and awareness of the basic principles and concepts of biology, computer science and mathematics  Existing software effectively to extract information from large databases and to use this information in computer modeling  Problem-solving skills, including the ability to develop new algorithms and analysis methods  the ability to speak the language of structure-function relationships, information theory, gene expression, and database queries  Students will Create computer programs that facilitate biological data analysis  Describes basic data mining tasks , KDD process and various databases techniques  Describes why to preprocess the data and the concept of data cleaning, intergration  Illustrate the social implications of Data Mining  Able to understand the various classification of algorithms like distance, decision tree based , neural network algorithms  Defines the clustering and association rules followed in data mining  Understand how server-side programming works on the web.  PHP Basic syntax for variable types and calculations.  Creating conditional structures  Storing data in arrays  Using PHP built-in functions and creating custom functions  Understanding POST and GET in form submission.
24	15BITE03	Elective I - Data Mining & Warehousing	Able to apply knowledge and awareness of the basic principles and concepts of biology, computer science and mathematics  Existing software effectively to extract information from large databases and to use this information in computer modeling  Problem-solving skills, including the ability to develop new algorithms and analysis methods the ability to speak the language of structure-function relationships, information theory, gene expression, and database queries  Students will Create computer programs that facilitate biological data analysis  Describes basic data mining tasks, KDD process and various databases techniques  Describes why to preprocess the data and the concept of data cleaning, intergration  Illustrate the social implications of Data Mining  Able to understand the various classification of algorithms like distance, decision tree based, neural network algorithms  Defines the clustering and association rules followed in data mining  Understand how server-side programming works on the web.  PHP Basic syntax for variable types and calculations.  Creating conditional structures  Storing data in arrays  Using PHP built-in functions and creating custom functions  Understanding POST and GET in form submission.  Understand the basic concepts fo attacks, methods of defence and classification of backers
24	15BITE03	Elective I - Data Mining & Warehousing  Core 13 - PHP Programming	Able to apply knowledge and awareness of the basic principles and concepts of biology, computer science and mathematics  Existing software effectively to extract information from large databases and to use this information in computer modeling  Problem-solving skills, including the ability to develop new algorithms and analysis methods  the ability to speak the language of structure-function relationships, information theory, gene expression, and database queries  Students will Create computer programs that facilitate biological data analysis  Describes basic data mining tasks, KDD process and various databases techniques  Describes why to preprocess the data and the concept of data cleaning, intergration  Illustrate the social implications of Data Mining  Able to understand the various classification of algorithms like distance, decision tree based, neural network algorithms  Defines the clustering and association rules followed in data mining  Understand how server-side programming works on the web.  PHP Basic syntax for variable types and calculations.  Creating conditional structures  Storing data in arrays  Using PHP built-in functions and creating custom functions  Understanding POST and GET in form submission.  Understand the basic concepts fo attacks, methods of defence and classification of hackers  Demonstrate the basic cryptographic terms, data encryption standard, fundamentals concepts of DES

	15BITP06		Use HTML form elements that work with any server-side language
			Create a PHP web page that is unique to each visitor
27		Core Lab 6 - PHP Lab	Validate user input
			Create, back up and restore a MySQL database
			Perform various MySQL database queries
	15BITE04	Elective II : Distributed Computing	Describes the characteristics of Distributed systems and their models
			Defines the interprocess communication and internetworking
28			Identify the security issues in OS support and distribured file systems
			Identify the time and global states and coordinationa and agreement techniques
			Define detailly on distributed transactions
			To understand the routing algorithm used mobile adhoc network
			To understand the Transport protocol of mobile adhoc networks
29	15BITE05	Elective II :MANET	To understand the security mechanism used in mobile adhoc network
			To understand the quality of service .
			To understand & develop any existing or new protocol related to mobile environment
			Understand the fundamental concept of web services including client server systems, system models, networks of distributed system
			Able to identify analyse and solve broadly defined problems
30	15BITE06	Elective II :Client/server computing	Able to understand the multi tier client server computing
		Electric II. Calculosci et computing	Design and develop client server systems with better security and specifies how to perform optimally
			Can track and analyse advanced client server systems
			Can develop basic network code including sockets, streams for simple client server applications
	15BITE07		Have an ability to apply software testing knowledge and engineering methods.
		5BITE07 Elective III : Software Testing	Have an ability to design and conduct a software test process for a software testing projec.
31			Have an ability to understand and identify various software testing problems, and solve these problems by designing and selecting software test models, criteria, strategies, and methods
			Have an ability to design and conduct various types and levels of software testing for a software project.
			Have basic understanding, knowledge of contemporary issues in software testing and test planning.
			Have an ability to identify the needs of software test automation, and define and develop a test tool to support test automation
			Expand the student understanding of the various application of XML
			Describes XML schema and DTD and their infra strucutures
32	15BCTE08	Elective III :XML	Able to implement the XML data model and access XML Databases
			Demonstrates web services and SOAP concepts
			Understand the XML security framework, digital signature
		15BCTE09 Elective III :Multimedia	To understand the characteristics of different media; understand the representations of different multimedia data;
	15BCTE09		To understand different data formats; be able to take into considerations in multimedia system designs;
33			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;
			understand different compression principles, compression techniques, multimedia compression standards.
ш			To program multimedia data and be able to design and implement media applications;

#### B.Sc (COMPUTER TECHNOLOGY)

	After the completion of the under graduate programme in Bachelor of Science (B.Sc Degree), the graduates will be able to:
	Attain the core value in their respective area to meet out the global competitive edge.
PROGRAMME OUTCOME (PO):	Apply and update their skills towards their employability, entrepreneurship and its sustainability.
	Realize their responsibility towards the society centre through ethical, social and human values.
	Recognize the opportunities towards their up gradation and professional development in all spheres

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			Ensure the quality in terms of all the aspects by the way of their contribution in work atmosphere.
PROGRAMME SPECIFIC OUTCOME (PSO)			the theoretical foundations of information and computation with their implementation and application in Computer Systems
PROGRAMME SPECIFIC OUTCOME (PSO):			Networks, Information Security, Databases, and Programming and Comprehend the professional ethics in any science subject to help in the devleopment of interdisciplinary approach for sustainable developments.  B.Sc. (CT) graduates have great opportunity to enter the ever expanding software and IT fields as Programmers, Network Administrators and System Analysts.
S.NO	COURSE CODE	COURSE NAME	COURSE OUTCOME
1	I 18BCT101	Core 1 – Programming in C	Develop conditional and iterative statements to write C programs
			Inscribe C programs that use Pointers toaccess arrays, strings and functions.
			Exercise user defined data typesincluding structures and unions to solve problems
			Inscribe C programs using pointers andto allocate memory using dynamic memorymanagement functions.
			Exercise files concept to show input andoutput of files in C
			Understand basic Structure of the C-PROGRAMMING, declaration andusage of variables
2	18BCTP01	Coro Loh 1 Cloh	Write C programs using operators
2	188C1P01	Core Lab 1 - C Lab	Exercise conditional and iterativestatements to Write C programs
			Write C programs using Pointers toaccess arrays, strings and functions.
			Write C programs to implement concept of command line arguments
			Describe the procedural and object oriented paradigm with concepts of streams, classes, functions, data and objects.
			Understand dynamic memory management techniques using pointers, constructors, destructors, etc
3	18BCT102	Core 2 - Object Oriented Programming with C++	Describe the concept of function overloading, operator overloading.
			Classify inheritance with the understanding of early and late binding, usage of exception handling, generic programming.
			Describe the concept of virtual functions and polymorphism.
			Student will Understand functions in C++ programming.
			Understamd the concept of function overloading , operator overloading .
4	18BITP02	Core Lab 2 - C++ Lab	Demonstrate the use of classes and objects.
			Demonstrate the use of constructors, destructors, polymorphism, inline functions.
		D <sub>0</sub>	Write,compile and execute c++ programs using virtual functions and files.
		Core Lab 1 - C Lab  Core 2 - Object Oriented Programming with C++  Core Lab 2 - C++ Lab  Core 3 - Java Programming  Core 4 - Data Structures	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, and JDeveloper
	15BCT301		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
5			Write, compile, and execute Java programs using arrays and recursion.
			Write, compile, and execute Java programs manipulating Strings and text documents.
			Write, compile, execute Java programs that include GUIs and event driven programming.
			Select appropriate data structures as applied to specified problem definition.
		Γ302 Core 4 - Data Structures	Implement operations like searching, insertion, and deletion, traversing mechanism etc. on various data structures.
6	15BCT302		Students will be able to implement Linear and Non-Linear data structures.
			Implement appropriate sorting/searching technique for given problem.
			Determine and analyze the complexity of given Algorithms.
	15BCT303	03 Core 5 - Computer Organization & Architecture	Describe basic organization of computer and the architecture of 8086 microprocessor.
7			Implement assembly language program for given task for 8086 microprocessor.
			Demonstrate control unit operations and conceptualize instruction level parallelism.
			Categorize memory organization and explain the function of each element of a memory hierarchy.
			Identify and compare different methods for computer I/O mechanisms.
			Know about new ideas and advances, techniques, and tools and to use them effectively
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8	15BCTP03	Core Lab 3 – Java Programming Lab	Implement Object Oriented Programming Concepts
			Use and create packages and interfaces in a Java program
			Use graphical user interface in Java programs
			Create Applets and implementing exception handling and multithreading concepts.
			Recognize contemporary MIS theory and how information systems support business strategy, business processes, and practical applications in an organization.
9	15BCTA01	AOC I - Management Information System	Describe how the Internet and World Wide Web provide a global platform for e-business, business mobility and communications, collaboration, and cloud computing
	132011101	1100 1 Management mornation by sem	Express the proven value of, and relationship between business data, data management, and business intelligence
			Combine analytical thinking, creativity and business-problem-solving as applied to ongoing MIS challenges, future trends, and relevant case studies
			Define and differentiate various types of Ecommerce.
10	15BCTA02	AOC I -E- Commerce	Describe Hardware and Software Technologies for Ecommerce.
			Explain payment systems for E - commerce.
			Describe the process of Selling and Marketing on web.
			Understand the basics of computer graphics, different graphics systems and applications of computer graphics
			Discuss various algorithms for scan conversion and filling of basic objects and their comparative analysis
11	15BCT401	Core 6 - Computer Graphics & Multimedia	Use of geometric transformations on graphics objects and their application in composite form.
			Extract scene with different clipping methods and its transformation to graphics display device.
			Render projected objects to naturalize the scene in 2D view and use of illumination models for this
			Describe, remove, and replace select components of a laptop; upgrade components based on customer needs and perform preventive maintenance and advanced troubleshooting.
			Explain, install, and navigate an operating system; upgrade components based on customer needs and perform preventive maintenance and advanced troubleshooting.
			Apply good communication skills and professional behavior while working with customers.
12	15BCT402	Core 7 – PC Hardware	
			upgrade security components based on customer needs and perform preventive maintenance and advanced troubleshooting.
			Describe, remove, and replace select components of a printer/scanner; perform preventive maintenance and troubleshooting
			Able to describe process management and concepts of threading, multitasking,IPC.
			Able to differentiation of various scheduling algorithms and identify the reasons of deadlock and their remedial measures in an operating system.
13	15BCT403	Core 8 – Operating System	Able to describe various memory management techniques.
			Able to Analyze of disk scheduling algorithms for efficient utilization.
			Able to apply the concepts of operating system to study Linux.  Know various multimedia software tools.
			Design multimedia software that are suitable to Internet applications.
14	15BCTP04	Core Lab 4 - Multimedia Lab	Design flash animations and Prepare multimedia advertisement and Edit image.
			2D modeling and Implementation of illumination model for enablating 2D of the
			2D modeling and Implementation of illumination model for rendering 3D objects  Compute of 2D 8-3D object representation and Implementation of unique come 8-diagram also illuminations.
			Concepts of 2D & 3D object representation and Implementation of various scan & clipping algorithms  Understand the principles of creating an effective web page, including an in-depth consideration of information architecture.
			Develop skills in analyzing the usability of a web site.
15	15BCTA03	AOC II - Web Designing	Develop sams in analyzing the usatimty of a web site.  Learn the language of the web: HTML and CSS.
			Learn the tanguage of the web: H1ML and CSS.  Be able to embed social media content into web pages.
			To introduce the embedded Hardware and Interfacing.  To make the students familiar with coffware development & tools for embedded systems.
16	15BCTA04	AOC II-Embedded System	To make the students familiar with software development & tools for embedded systems.  The objective of the course is to cover the Hardware Design, Software Development & RTOS for the Embedded Systems.
			Systems.  Ability to use ANSLC to develop embedded software
			Ability to use ANSI C to develop embedded software.
			Upon successful course completion the concepts of NET framework  The analysis oble to greate simple subspace in the concepts of the course of window and institute of the course of the
17	15BCT501	Core 9 Net Framework	The students able to create simple webapplications and window applications
1 1			Able to connect database using ADO.NET in C#.NET

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			To develop Assemblies and Deployment in .NET, Mobile Application Development
			To understand and be able to explain Exception handling and Threads
			Describe the functions of each layer in OSI and TCP/IP model.
			Explain the functions of Application layer and Presentation layer paradigms and Protocols.
			Describe the Session layer design issues
18	15BCT502	Core 10 - Computer Networks	and Transport lower
			Identify the various computer network protocol design models and the usage of various types of transmission media and
			working of LAN technology
			Familiarize the variouswireless LAN concepts and the design of adhoc wireless network
			Familiarize the variouswireless LAN concepts and the design of adhoc wireless network
			Able to understand the different process models and project management concepts
			Able to develop skills for cost estimation for software development and understand the software risks.
19	15BCT503	Core 11 – Software Engineering	Able to enhance teamwork ability in project scheduling and apply the concepts of software quality assurance
			Able to relate and outline system engineering and product engineering process.
			Able toapply requirement mapping strategies for development of software.
			Understand, appreciate and effectively explain the underlying concepts of database technologies
20	15BCT504	Core 12 – RDBMS	Design and implement a database schema for a given problem-domain
		Core 12 - RDBIvis	Populate and query a database using SQL DML/DDL commands
			Declare and enforce integrity constraints on a database using a state-of-the-artRDBMS
			To Know the concepts of SQL, PL/SQL, Triggers, cursors and Normalization
			Able to understand the console application creation and its implementation
			Describe how to upload the document file in our own directory
21	15BCTP05	Core Lab 5 - Net Framework Lab	Demonstrate the basic DML Operations
			Descirbes how to transact records in database
			Illustrate hot to generate a data report
			Students can able to Design the architecture for an agent
22	15BCTE01	Elective I: Software Agents	Students can able to Design the agent in details in a view for the implementation
			Students can able to Design typical agents using a tool for different types of applications
			Able to understand the different types of agents.
			Know about the tools.
			Evaluate the architecture and principles of operation of computer systems and networks.
			Design and develop software systems for various application domains.
23	15BCTE02	Elective I: Mobile Computing	Manage the development of software systems through a variety of development processes and methodologies.
			Synthesize new knowledge in the field of computer science by using appropriate research methodologies.
			Demonstrate the ability to design a system, componentor process as per needs and specifications.
			Defines the working of cloud computing and their pros and cons
			Identifies centrallising email communications and mappind schedule in projects
24	15BCTE03	Elective I: Cloud Computing	
			Explore collaboration of scheduling, planning and event management and contact management
			Evaluate the web conference tools and how to create social networks
			Describe about groupware
			Understand how server-side programming works on the web.
			PHP Basic syntax for variable types and calculations.
25	15BCT601	Core 13 - PHP Programming	Creating conditional structures
			Storing data in arrays
			Using PHP built-in functions and creating custom functions
			Understanding POST and GET in form submission.
			p of the open services of the

			Understand the basic concepts fo attacks, methods of defence and classification of hackers
			Demonstrate the basic cryptographic terms, data encryption standard , fundamentals concepts of DES
26	15BCT602	Core 14 – Information Security	Identifies different types of flaws , kinds of malicious code and prevention of virus infection
			Able to understand the file protection mechanisms, user authentication
			Describes the security requirements, ethical issues in computer security
			Use HTML form elements that work with any server-side language
			Create a PHP web page that is unique to each visitor
27	15BCTP06	Core Lab 6 - PHP Lab	Validate user input
			Create, back up and restore a MySQL database
			Perform various MySQL database queries
			Describes the characteristics of Distributed systems and their models
			Defines the interprocess communication and internetworking
28	15BCTE04	Elective II : Distributed Computing	Identify the security issues in OS support and distribured file systems
			Identify the time and global states and coordinationa and agreement techniques
			Define detailly on distributed transactions
			Describes basic data mining tasks, KDD process and various databases techniques
			Describes why to preprocess the data and the concept of data cleaning, intergration
29	15BCTE05	Elective II :Data Mining & Warehousing	Illustrate the social implications of Data Mining
			Able to understand the various classification of algorithms like distance, decision tree based, neural network algorithms
			Defines the clustering and association rules followed in data mining
			Understand the AI branches and search process and their algorithms
			Describe various searching techniques
20	15DOTTO 6		Understand the knowledge representation issues
30	15BCTE06	Elective II :Artificial Intelligence	Describes various learinging procedures
			helps to deal with hidden variable
			Defines expert systems and their architecture
			Have an ability to apply software testing knowledge and engineering methods.
			Have an ability to design and conduct a software test process for a software testing projec.
			Have an ability to understand and identify various software testing problems, and solve these problems by designing
31	15BCTE07	Elective III : Software Testing	and selecting software test models, criteria, strategies, and methods
			Have an ability to design and conduct various types and levels of software testing for a software project.
			Have basic understanding, knowledge of contemporary issues in software testing and test planning.  Have an ability to identify the needs of software test automation, and define and develop a test tool to support test
			rave an ability to tuentify the needs of software test automation, and define and develop a test tool to support test automation
			Expand the student understanding of the various application of XML
			Describes XML schema and DTD and their infra strucutures
32	15BCTE08	Elective III :XML	Able to implement the XML data model and access XML Databases
			Demonstrates web services and SOAP concepts
			Understand the XML security framework, digital signature
			Understand the fundamental concept of web services including client server systems, system models, networks of distributed system
			Able to identify analyse and solve broadly defined problems
33	15BCTE09	Elective III :Client / Server Computing	Able to understand the multi tier client server computing
			Design and develop client server systems with better security and specifies how to perform optimally
			Can track and analyse advanced client server systems
			Can develop basic network code including sockets, streams for simple client server applications

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			After the completion of the under graduate programme in Bachelor of Science (B.Sc Degree), the graduates will be able to
			Attain the core value in their respective area to meet out the global competitive edge.
	PROGI	RAMME OUTCOME (PO):	Apply and update their skills towards their employability, entrepreneurship and its sustainability.
			Realize their responsibility towards the society centre through ethical, social and human values.
			Recognize the opportunities towards their up gradation and professional development in all spheres.
			Ensure the quality in terms of all the aspects by the way of their contribution in work atmosphere.
			After completion of the Programme the graduates will be able to
	PROGRAMM	IE SPECIFIC OUTCOME (PSO):	Apply the knowledge of Mathematics, logical thinking to analyze complex problems and real world problems to meet the needs of the society.
			To formulate and develop modern mathematical ideas that provides a solid foundation for future learning.
I			Acquire a holistic professional carrier and opportunities to gain knowledge in Teaching Methodologies to create an environment that supports outstanding research.
S.No	Course Code	Course Name	Course Outcome
			Trigonometric formulas and Understand the concept of Inverse Trigonometric functions
			Understand the expansions of trigonometric functions and nature of Hyperbolic
1	15BMA101	Core I- Trigonometry and Fourier series	To understand the Inverse Hyperbolic functions.
			Analyse the Logarithm of complex quantities and to evaluate summation of series.
			Apply Fourier series concepts to find its expansion of periodic functions and to analyse odd and even functions.
			Analyze Half range Fourier series and interval.
			Understand the concepts of curvature and its types, to evaluate total differentiation and to verify Euler's theorem.
			Analyse the types of integration.
2	15BMA102	Core II-Calculus	Remember the Reduction formula and Evaluate the double, triple integral and its application.
			Evaluate change of order of integration and change of variables.
			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 Measures of Central Tendency
	18BMAID1	Allied I- Mathematical Statistics-I	Apply joint probability mass function, two dimensional distributions, its types Mathematical Expectations and analyze the theorems based on mathematical expectations
3			Remember moment generating functions, properties, and analyze the uniqueness theorem of Moment Generating Functions, Chebychev's Inequality and Weak Law of Large Numbers.
			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
4	18BMA201	Core III- Analytical Geometry and Vector Calculus	To apply the concepts and results based bon 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
5	16BMA202	Core 4: Classical Algebra	Analyse the concepts of Logarithmic Series
			Examine the convergence and Divergence of sequences and series.
			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.
6	18BMAID2	IDC 2:Mathematical Statistics-II	Understand the concepts of testing of Hypothesis and Likelihood Ratio Test.
			Analyse the concepts of Method of Estimation and Method of Least Square.
			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
7	15RMA301	Core 5 :Statics	To acquire knowledge about the parallogram of forces, Triangle of forces, varigons theorem of moments

. ,	120001201	1 Core 5 source	
			To find the resultant of coplanar couples equilibrium of couples and the equation to the line of action of the resultant
			To understand the concept of equlibrium of strings and to derive the tension at any point
			To discuss the geometrical properties of a catenary
			To examine the general, particular and complete solution of differtial equations
			Understand the concept of ordinary differential equations and to evaluate ODE.
8	15BMA302	Core 6:Differential Equations and Laplace Transforms	Understand the concept of partial differential equations and lagrange's method
			To analyze the types of equations solvable for x,y and p
			To understand and apply the concept of laplace transforms and inverse laplace transforms
			To create the formulation of LPP and to evaluate various methods of LPP namely Graphical method, Simplex method and Big-M method
			To understand and apply the concept of duality
9	15BMAA01	AOC I:Operations Research –I	To understand and apply the methods of transportation
			To solve the assignment problems and travelling salesmen problem
			To analyze the concept of game theory and its methods
			To understand and apply the concepts of Mathematical Modeling relating to linear and Noon-linear Growth and Decay Models.
			To understand the basic terms for the description of the Population Dynamics and Compartment Models.
10	15BMAA02	Mathematical Modeling	To know about Planetary ,Circular Motion and Motion of Statellites.
			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.
			To understand and apply the concepts of kinematics and kinetics
			To understand the basic terms for the description of the motion of particles vector functions and fundamental laws
		Core 7 :Dynamics	To solve dynamical problems in one dimension that involve one or more of the forces of gravity and friction
11	16BMA401		To understand and apply the concept of the path of the projectile and its characteristics
			To understand simple harmonic motion and its related geometrical representation
			To understand and apply the principle of central orbit
			To understand the direct and oblique impact of smooth elastic spheres and its related loss og kinetic energy
			To understand and apply the concepts of Fourier Transform Properties and Inverse Fourier Transform.
12	15BMA402	Core 8: Fourier Transforms, z Transforms and	To understand and apply the concepts of Fourier Sine Transform ,Fourier Cosine Transform and its properties.
	13BNIA402	Theory of equations	To understand and apply the concept of Z-Transforms of basic functions and few inverse Z Transform methods.
			To know about Theory of equations, Transformation of equations and formation of euations.  To understand symmetric function of roots, Sum of the powers of the root's of an equation, Newton's theorem, Reciprocal equation and Honer's Method.
			Co1:To formulate and solve decision analysis problems
			To solve sequencing problems and plan accordingly
13	15BMAA03	AOC II: Operations Research-II	To acquire knowledge about replacement problems to find the optimal repllacement period
			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 understanding the concepts of Fuzzy set theory and its basic operations.
14	15BMAA04	AOC II:Fuzzy logic and Neural Networks	To acquire knowledge about Fuzzy systems ,Fuzzy logic ,quantifiers and inference concepts.  To understand the converte of Fuzzy Associate countries.
			To understand the concepts of Fuzzy Associate members
			To acquire knowledge about covering and compact subsets of a Metric space
			To apply the back probagation networks to create the perception model.
			To understanding the concepts of Real and Complex number systems
15	15BMA501	Ol Core 9: Real Analysis-I	To acquire knowledge about axioms
15			To understand the concepts of point set topology and to apply the Bolzana Weiertress and Cantor Intersection theorem.
İ			To acquire knowledge about covering and compact subsets of a Metric space
			To understand the concept of cauchy sequence and complete spaces

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			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
16	15BMA502	Core 10:Complex Analysis-I	To analysize the convergence of power series
			To determine the harmonic finctionand map the functions in complex plane
			To eveluate 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
17	15BMA503	Core 11: Modern Algebra-I	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
			To analyze the concept of syllowis 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
18	15BMA504	Core 12:Programming in C	To understand and apply the looping statements
			Will learn about the concept of arrays, strings and string handling functions
			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
			To develop a program to generate Pascal's Triangle.
19	15BMAP01	Core 13:Programming in C-Practical	To develop a program to sort a given set of numbers
			To develop a program to find the sum of the digits of a given number.
			To develop a program to sort a given set of names.
			To develop a program to find the product of two given matrices.
			To develop a program to prepare pay list for a given data.
			To develop a program to find the factorial of a given number using ponter's.
			To gain knowledge about solar system and spherical trignometry
			To know about telestial sphere
20	15BMAE01	Elective I:Astronomy-I	To understand the concepts of Dip,Twilight and Geometric Parallex
			To apply refraction tangent and cassinis formulas
			To learn keplers laws and relation between true eccentric and mean anamolies
			To solve algebraic and trancentendal equation
			To find the solution of system of linear algebraic equations
21	15BMAE02	Elective I: Numerical Methods-I	To understand and apply the concept of finite differences
			To identify the problems in interpolation with equal and unequal intervals and solve it
			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.
22	15BMAE03	ElectiveI:Quantitative Aptitude-I	To solve problems in Time and Work ,Surds and indices,Square roots and Cube roots.
			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
23	15BMA601	Core 14: - Real Analysis -II	To examine the knowledge about continuity and monotonic functions
			To apply the the differentiability if real finctions and related theorems
			To acquire knowledge about the fincions of bounded variations

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			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
24	15BMA602	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
			Co1: To understand the matrix concepts in real life problems
			Co2: Verify Cayley's Hamilton theorem for a square matrix
25	15BMA603	Core 16: Modern Algebra-II	Understand the concept of vector space , homomorphisms and isomorhisms
			Explain the concept of dual space, inner product vector space and orthogonal vector space
			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 its implications
26	15BMA604	Core 17 :Discrete Mathematics	To understand the meaning of graph, types of graphs and trees
			To understand and apply for relations and functions concept and solve various problems
			To understand lattices, boolean algebra and boolean functions
			To understand the concept of formal languages, grammer , FSA and apply its concepts
			To gain knowledge about Time, equation of time , convertion of time , seasons and caender.
27	15BMAE04	Floative II . Astronomy II	To know about Annual Parallex and Abberation.
21	15BMAE04	Elective II : Astronomy II	:To understand the concepts of Precession and Nutation.
			:To learn about Moon and Eclipses.
			To learn about the Planetory Phenomenon and the Stellar system.
			To analyse the problems in numerical differentiation
	15BMAE05		To analyse the problems in numerical integration
28		Elective II: Numerical Methods-II	To understand and apply the concepts of differece equations
			To evaluate Taylor series, Eulers method, Improved, Modified Euler method and RK method of fourth order
			To examine the numerical solution of first order ODE
			To solve Chain Rule, Work and Wagws and Pipes and Cisterns .
	15BMAE06		To solve problems in Simple interest ,Compound interest ,Growth and depreciation,Shares and debentures.
29		Elective II :Quantitative Aptitude –II	To solve problems in Time and Distance, Trains, Boats and Streams.
			To solve problems in Clocks, Area of Plane figure, Volume and Surface area of solid figures.
			To solve problems in Data interpretation and data suffiency
			To understand and apply the concepts of Finite State Automata concepts.
			To analyse the problems in Closure ,regular set, Expressions and Languages.
30	15BMAE07	Elective III : Automata Theory	To apply the produre for converting NFA to DFA and equivalent regular expressions.
			To illustrate the problems in Grammer and its types.
			:To understand the concepts of push down automata and relation between PDA and Context free languages.
			To understand the concepts of graph and the basic theorems on graph theory
			To learn about the apllication graph theory in network and other related areas
21	15044.200	Place W.O. 15	To understand the concept of tree and their properties
31	15BMAE08	Elective III :Graph Theory	To examine the various isotopes with the help tree concepts
			To examine the relationship between algebra and graph and analyze algebric graph structures
			To study about the conversion of graph structures into matrix and their properties
			To gain knowledge about the basic structure of C++ programming and its concept of operators and expressions
32	17BMAE09	Elective III :Programming in C++	To acquire knowledge about Functions in C++.
l			To understand and apply the concepts of Classes, Objects ,Constructors and Destructors.

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			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.
33	17BMAP02	Elective III:Programming in C++-Practical	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.
			To develop a program to display the Employee Details.
			To learn short cuts in Squaring ,multplication of numbers.
			To acquire knowledge about Criss-Cross Multiplication ,Square root and Cube roots.
34	14BMAAC1	ACC: Vedic Mathematics	To understand and apply the concepts of Base method of multiplication .
			Will learn about the concept of Digit sum method, Magic squares ,Dates and calender problems, general, linear equations.
			To understand and apply Zeller's rule, square root for impefect squares, cubing numbers and Base method of division.
			To learn about the basic structure of Latex
			To understand the commands of single chracter symbols and the environments
35	16BMAAC2	ACC:Latex	to learn the document layout and their styles
			To learn the commands of generating tables and foot notes
			To learn the mathematical commands of mathematical symbol and mathematical environments

#### B.Sc (COSTUME DESIGN AND FASHION)

			After the completion of the under graduate programme in Bachelor of Science (B.Sc Degree), the graduates will be able to
			Attain the core value in their respective area to meet out the global competitive edge.
	PROG	RAMME OUTCOME (PO):	Apply and update their skills towards their employability, entrepreneurship and its sustainability.
			Realize their responsibility towards the society centre through ethical, social and human values.
			Recognize the opportunities towards their up gradation and professional development in all spheres.
			Ensure the quality in terms of all the aspects by the way of their contribution in work atmosphere.
			After completion of the Programme the graduates will be able to
	PROGRAMN	ME SPECIFIC OUTCOME (PSO):	Procreate exhaustive, conception merchandise avail oneself of their break through knowledge of new technology and traditional craft. Capability to promote their artistic personal design perception
			Identify problems, assume challenges and conceptualize solutions in extant fashion schemes
			Conspire across restraint as a team leader, efficient member, ingenious designer, aesthetics and creativity.
S.No	Course Code	Course Name	Course Outcome
		Basics of Apparel Designing	The students gained knowledge on parts and functions of sewing machines and different types seams and seam finishes.
	17CDF101		The students understands about fullness, facing and binding
1			The students gained knowledge on plackets and method of fastners
			The students acquired knowledge on sleeves and yokes.
			The students gained knowledge on types of collers and pockets.
			The students learnt the technique on joining two pieces of fabric using seam.
2	16CDFP01	P01 Basics of Apparel Designing - Practicals	The students understands the technique on how to prevent fabric from ravelling through seam finishes
			The students understnads about the techniques of neck finishes using facing and binding.
			The students understands to create yoke for decorative purpose.
			The students will be good enough in taking measurement.
			The students will be well trained in pattern preparation.
3	16CDF102	DF102 Fundamentals of Pattern Making	The students will be through in checking the fitting of blouse.
			The students are good in pattern grading.
			The students are good in layout preparation.

			The students gained the knowledge on basic drawing techniques using lines and motifs.
4	16CDFID1	Illustration Technique - Practicals	The students acquired the knowledge on fashion figure drawing through stick figure.
·	10021121	musuuusii reeimique Tiueiteus	The Students learnt on diving the figure into various parts and practicing the art of creating textures.
			The students gained the knowledge on drawing pattern details in the garments and ornaments and accessories designing
			The students gained knowledge on portrait drawing skill
-	16CDFP02	Contains Oriental Chatakina Province	The students acquired creative skills on drawing casual wear party wear and sports wear for men,women.children.
5	16CDFF02	Customer Oriented Sketching- Practicals	The students acquired knowledge on drawing stylized men, women, children figures using 10 and 12 head theories.
			The students learnt on illustrating garments for different seasons like summer, winter, autumn and spring for men, women, children.
			The students gained the practical knowledge on constructing Bib, jabla.
			The students gained the practical knowledge on constructing baba suit
6	16CDFP03	Kids Garment Production - Practicals	The students gained the practical knowledge on constructing A-line petticoat
			The students gained the practical knowledge on constructing summer frock, yoke frock, shirt.
			The students acquired knowledge on differntiating water, soap and detergent manufacturing
7	16CDF201	Finished Textiles Maintenance	The students gained knowledge on stiffening agents and its application
			The students acquired knowledge on laundry equipment, drying equipment and Ironing.
			The students understands the principles of washing,laundering for different fabrics.
			The students acquired knowledge on special types of laundry, stain removing and care labels.
			The students gained a clear knowledge in the machine used in the textile industry
8	16CDFID2	Sewing Operation System	The students learnt about accessories and repairing of sewing machine.
	10CDFID2	Sewing Operation System	The students understood the cutting machanism and machines used.
			The students gained the knowledge on marking planning and pressing.
			The students acquired knowledge in analysising sewing threads.
			The students gained the knowledge on origin of costume and history of Indian costumes and textiles.
			The students acquired knowledge on north Indian costumes.
9	16CDF301	Indian Historic Costumes and Textiles	The students understands costumes and jewelry of south India.
			The students gained knowledge on north Indian jewellery
			The students understands the traditional embroideries of India.
			The students understands the elements of design and application of structural and decorative design
			The students understands the principles of design and application of principles on the garment
10	16CDF302	Fashion Art	The students gained knowledge on fashion terminology and theories of fashion adoption.
			The students learnt on colour theories and standard colour harmonies.
			The students understand the concept on designing dressing for unusual figures and fashion accessories.
			The students gained knowledge on prang colour chart
			The students learnt to illustrate elements of design in a garment
11	16CDFP04	Fashion Art- Practicals	The students learnt to illustrate principles of design in a garment
			The students understands the usage of colours in a garment
			The students learnt on designing madeups
			The students gained ample of information on spinning and process flow in spinning mills.
			The students understands the fiber and its classifications
12	16CDF303	Fiber to Fabric	The students gained knowlwge on yarn formation.
			The students understands various types of weave patterns.
			The students acquired knowledge on non-wovens.
			The students understands to identify natural and man made fibers through microscopic method
			The students understands to identify natural and man made fibers through flame test
13	16CDFP05	Fiber to Fabric- Practicals	The students understands to identify natural and man made fibers through chamical test.
l l	ļ	I	The students uncerstaints to ruentity natural and man made fibers unough chemical test.

Part   Part			1	
Part				The students gained theknowledge on fabric count by raveling and pickglass method.
Marche   Marche   Pools of M				
The conform pages of the transledge on intrinsical contents and accordance, respectively.				
The stateon acquired knowledge on windfulness, comes and more information on finition works.	14	16CDFID3	Fashion and Clothing Psychology	The students gained the knowledge on visual merchandising, merchandising presentation and fashion shows.
Part   Part				The students understands on Indian fashion designers.
Part   Part				The students acquired knowledge on world fashion centres and more information on fashion week.
The makens successed knowledge on despine different types of collar.  The makens successed knowledge on despine different types of collar.  The makens successed knowledge on despine different types of collar.  The makens successed knowledge on despine different types of collar.  The makens successed knowledge on despine disconsist and by 2D and 1D.  The makens subtread on hower sectors of furnishing and arrangements in triviar designs.  The makens supired knowledge on supplication of designed where it is interior designs.  The makens supired knowledge on supplication of designed where it is interior design.  The makens supired knowledge on supplication of designed and graphs in office.  The makens supired knowledge on supplication of designed where it is for constitution and supplies of the formation and supplies of the supplies of th				The students understands on draping and dressing forms
The students understands on despine basic skins.  The students understands on foreign different types of collar.  The makes acquired bowledge on application of clears when in interest design and by 2D and 1D  The makes acquired bowledge on application of clears when in interest design.  The makes acquired bowledge on application of clears when in interest design.  The makes acquired bowledge on application of clears when in interest design.  The makes acquired bowledge on application of clears when in interest design.  The makes acquired bowledge on application of formalizing and arrangement in thing recen.  The makes acquired bowledge on application of formalizing and arrangement in thing recen.  The makes acquired bowledge on application of formalizing and arrangement in thing recen.  The makes acquired bowledge on application of formalizing and arrangement in thing recen.  The makes acquired bowledge on application of formalizing and arrangement in thing recen.  The makes acquired bowledge on application of formalizing and arrangement in thing recen.  The makes acquired bowledge on application of formalizing and arrangement in thing recen.  The makes acquired bowledge on intrinsical designed were pattern.  The makes acquired bowledge on intrinsical designed were pattern.  The makes agained bowledge on intrinsical designed were pattern.  The makes agained bowledge on intrinsical designed were pattern.  The makes agained bowledge on intrinsical designed were pattern.  The makes agained bowledge on intrinsical designed were pattern.  The makes agained bowledge on intrinsical designed were pattern.  The makes agained bowledge on pattern understand the designed were pattern.  The makes agained be bowledge on pattern graphs of the formalization.  The makes agained the bowledge on pattern graphs for further type of dynamic patterns and the patterns and the patterns and the patterns and the patterns and the patterns and the patterns and the patterns and the patterns and the patterns and the patterns and the patterns	15	16CDE401	Racio Dranina, Practicale	The students gained knowledge on draping basic front and back
The students national standards and in bourse interior and allocation through principles of design and by 2D and 3D	15	100017101	Basic Braphing-Tracticals	The students understands on draping basic skirts.
De trackens applient not cofour wheel is interior design.				The students acquired knowledge on draping different types of collar.
De trackens applient not cofour wheel is interior design.				The students understands on home interior and decoration through principles of design and by 2D and 3D
The underso guined knowledge on application of design drawing and graphes in office.  The valueton supplied knowledge on application of familiatings and arrangements in living recom.  The valueton supplied knowledge on transforments of photography  The valueton supplied knowledge on transforments of photography  The valueton supplied knowledge on tippes of current and in functions  The valueton supplied knowledge on tippes of current and in functions  The valueton supplied knowledge on tippes of current and in functions  The valueton supplied knowledge on tippes of functions and the functions  The valueton supplied knowledge on tippes of the valueton guintern.  The valueton supplied knowledge on timicated designed weave partnern.  The valueton supplied knowledge on analyzing trail weave and in derivatives.  The valueton guined flux knowledge on analyzing trail weave and in derivatives.  The valueton spined flux knowledge on analyzing trail weave and in derivatives.  The valueton spined flux knowledge on analyzing trail weave and in derivatives.  The valueton spined knowledge on partners guine weave weave.  The valueton spined knowledge on analyzing stems weave weave.  The valueton spined knowledge on analyzing stems weave weave.  The valueton spined knowledge on physical guidence weave.  The valueton spined knowledge on physical guidence weave.  The valueton spined knowledge on physical guidence on the fabric.  The valueton spined knowledge on properting samples for sterile processing.  The valueton spined knowledge on properting samples for sterile processing.  The valueton spined knowledge on properting samples for sterile processing.  The valueton spined knowledge on properting samples for sterile processing.  The valueton spined knowledge on properting samples for sterile processing.  The valueton spined knowledge on properting samples for sterile processing.  The valueton spined knowledge on properting samples for sterile processing.  The valueton spined the browledge on operation samples for sterile proce				
The students acquired knowledge on application of furnishings and arrangements in living room.  The students gained the knowledge on types of camers and its functions  The students acquired knowledge on types of camers and its functions  The students acquired knowledge on types of camers and its functions  The students acquired knowledge on types of cursors and its functions  The students acquired knowledge on types of cursors and its functions  The students acquired knowledge on types of cursors and its functions  The students acquired knowledge on substitute and personal students.  The students acquired knowledge on analysing plain weave and its derivatives.  The students gained function on gile fabrics.  The students gained function of the knowledge on analysing testil secure and its derivatives.  The students gained function delay on analysing testil secure and its derivatives.  The students gained function delay in processing of fabric.  The students gained function delay on practical finishes to the fabric.  The students gained function delay on practical finishes to the fabric.  The students acquired knowledge on pragrating samples for testile processing.  The students acquired knowledge on practical samples for testile processing.  The students acquired knowledge on practical samples for testile processing.  The students acquired knowledge on practical samples for testile processing.  The students acquired function flower only on organizing samples for testile processing.  The students acquired function flower on practicing samples for testile processing.  The students acquired fabrical knowledge on countracting samples for practicing makes on the students.  The students acquired	16	17CDFA02	Interior Designing - Practicals	
Die studens gained flork knowledge on fundamentals of photography				
Participate   Processing   Pr				
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The students gained ample of information about weaving uniterns.   The students gained ample of information types of weaving patterns.   The students gained information on pile fabries.   The students gained information on pile fabries.   The students gained information on pile fabries.   The students gained knowledge on double cloth weaving and stitching.   The students gained knowledge on analysing palin weave and its derivatives   The students gained the knowledge on analysing palin weave and its derivatives   The students gained the knowledge on analysing twill weave and its derivatives   The students gained the knowledge on analysing staten weave   The students gained the knowledge on analysing staten weave   The students gained the knowledge on analysing staten weave   The students gained the knowledge on analysing staten weave   The students gained the knowledge on analysing staten weave   The students gained two lower ledge on analysing staten weave   The students gained knowledge on processing of fabric   The students gained knowledge on processing of fabric   The students gained knowledge on processing of fabric   The students gained knowledge on processing of the fabric   The students gained knowledge on properties amples for textile processing   The students gained knowledge on properties amples for textile processing   The students acquired knowledge on properties amples for fatfieren types of dyeing   The students acquired knowledge on properties amples for fatfieren types of dyeing   The students acquired knowledge on properties amples for fatfieren types of dyeing   The students acquired knowledge on properties amples for fatfieren types of dyeing   The students acquired knowledge on properties amples for fatfieren types of dyeing   The students acquired knowledge on properties amples for fatfieren types of dyeing   The students acquired knowledge on properties amples for fatfieren types of dyeing   The students acquired knowledge on properties amples for fatfieren types of dyeing   The studen				
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The students acquired the skill on doing basic embroidery stitches.  The students acquired the skill on doing basic machine embroidery stitches.  The students acquired the skill on doing basic machine embroidery stitches.  The students acquired the knowledge on practicing traditional embridery stitches.  The students acquired the skill on practicing applique work  The students acquired the knowledge on quality control and standards in the textile industry.  The students acquired the knowledge on various specifications, training the quality control personnel,government acquired to the personnel				
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The students acquired the skill on practicing applique work  The students gained the knowledge on quality control and standards in the textile industry.  The students acquired the knowledge on various specifications, training the quality control personnel,government protections and only the control industry.	23	16CDFID4	Surface Embellishments- Practicals	The students acquired the skill on doing basic machine embroidery stitches.
The students gained the knowledge on quality control and standards in the textile industry.  The students gained the knowledge on various specifications, training the quality control personnel government government industry.				The students gained the knowledge on practicing traditional embridery stitches.
The students acquired the knowledge on various specifications, training the quality control personnel, government				The students acquired the skill on practicing applique work
contacts, packaging and warshousing in the garment industry				
	24	16CDFAO3	Garment Quality and Cost Control	

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			The Students gained the knowledge on various functions of production control.
			The students understands the types of control forms.
			The students learnt the skill on bleaching
			The students learnt the skill on herbal facial
25	16CDFAO4	Beauty Care	The students learnt the skill on threading
			The students learnt the skill on waxing
			The students learnt on visual merchandising, presentation and garment display
26	18CDF501	Visual Merchandising	The students gained knowledge on store design, mannequins and fixtures for selection.
			The students understands the store exterior and interior planning and trade organization sources.
			The students acquired knowledge on display techniques, planning. Creativity in show room displaying
			The students acquired knowledge on different approaches in visual merchandising, information technology, safety factors.
			The students gained the knowledge on computers in fashion industry
27	16CDF502	Computers in the Garment Industry	The students acquired the knowledge on pattern making and grading using computers.
21	10001302	Compacts in the Garment industry	The students learnt on textile desinging
			The students acquired knowledge on 2D and 3D forms
			The students gained knowledge on application of computers in apparel manufacturing industry.
			The students gained the practical knowledge on constructing S.B.Vest and T-Shirt
28	16CDFP09	Men's Garment Production- Practicals	The students gained the practical knowledge on constructing Slack Shirt and Full sleeve shirt
			The students gained the practical knowledge on constructing Kalidhar kurtha
			The students gained the practical knowledge on constructing Pleated pant and House Coat.
			The students gained the knowledge on designing motif, embroidery design, chest prints for T-shirt using coral draw software.
29	16CDFP10	Computer aided design- I	The students gained the knowledge on designing childeren's, women's and men'sgarments using coral draw software.
27	10CDFF10	Computer audeu design- i	The students gained the knowledge on designing logs and care labels for branded companies using coral draw software.
			The students gained the knowledge on preparing production planning and scheduling using coral draw software.
			The students gained the knowledge on technical textiles its types and application
			The students get the knowledge on medical textiles
30	18CDFE01	Elective I-Functional Clothing	The students get the knowledge on protective textiles
			The students get the knowledge on sport wear and how textiles plays an vital role
			The students get the knowledge on smart and innovative textiles.
			The students understands about the fashion communication and function of fashion clothing
			The students learnt about the fashion and society which leads to social issues and factors.
31	18CDFE02	Elective I- Fashion Promotion	
			The students understands about the types of advertising used in fashion promotion.
			The students acquired knowledge on media as a whole and its budgeting and advertising.
			The students acquired knowledge on fashion product development.
			The students understands the textile finishing and types of furnishing materials.
32	18CDFE03	Elective I- Home Furnishings	The students understands about the window and door treatments on draperies.
32	10021203	Escerie i Tione i amismigo	The students understands about the interior designing on living room and wall covering
			The students understands on bed and bath linen and its types.
			The students understands about the kitchen and table linen and its cleaning materials.
			The students acquired knowledge on types of knitting process
		Fundamental of Knitting	The students understands the knitting elements , advantages and disadvantages.
33	16CDF601		The students acquired knowledge on weft knitting classification and its properties.
			The students acquired knowledge on warp knitting classification and its properties.
			The students understands about the knitted fabric detects and its care and maintenance.
			The students understands about the kinted faoric detects and its care and maintenance.

34 16CDFP12	16CDFP12	Fundamental of Knitting- Practicals	The students acquired the knowledge on identifying rib and interlock fabric of knitted fabrics
			The students acqired the knowledge on identifying different types of warp knitted fabrics
			The students acquired the knowledge on analysing the defects on the knitted fabric.
			The students acquired knowledge on designing garments and application of colour harmony in the garment
35	16CDFP11	Computer Aided Design-II- Practicals	The students learnt to design garments on principles of design
			The students learnt to design garment for men, women, children for various occassions and seasons
			The students acquired knowledge on preparing different types of patterns , pattern garding and photo editing.
			The students understand the concept of fashion marketing
			The students acquired the knowledge on marketing functions and fashion industry for new product development
36	16CDFE04	Elective II- Apparel Marketing	The students gained knowledge on fashion advertising
			The students understands the fashion sales promotion in the apparel marketing
			The students learnt to develop marketing strategies for apparel product and methods of setting prices.
			The students obtained the knowledge on nature and scope of management.
			The students understands the concept on planning, decision making and problem solving
37	16CDFE05	Elective II- Apparel Production Management	The students obtain knowledge on organizing and performance apparaisal.
			The students understands the concept managerial qualities like motivating,organizing and communicating.
			The students understand about production control in accord with apparel marketing
			The students gained knowledge on merchandising terminalogies.
			The students acquair knowledge on functions of merchandising
38	18CDFE06	Elective II- Fashion Merchandising and Marketing	The students gained knowledge on costing in apparel industry
			The students learnedon how to analyse consumer
			The acquire the knowledge on product development, customer profiles and product life cycles.
			The students acquire knowledge to became a entreprenuer
			The students aware of the financial assistance agencies
39	16CDFE07	Elective II- Organization of Garment Unit	The students get a knowledge in organizing a different depart.
			The student get a knowledge in frame the layout of the company
			The students aware of the documents for the export and payment.
			The students gained knowledge on cost estimation of yarns, fabrics and their finishes
			The students learnt on apparel export promotion
40	16CDFE08	Elective II- Export Analysis and Documentation	The students acquire knowledge on document related to goods.
			The students gained knowledge on inport license.
			The students gained knowledge on pre shipment inspection and quality control.
			The students obtained the knowledge on quality testing and standard quality parameters
			The students obtained the knowledge on raw material inspection and their advantages.
41	16CDFE09	Elective II- Apparel Quality Management	The students acquire knowledge on the principles of total quality management and their application in garment industry.
			The students understand the ISO 9001:2000 quality system manual for garment industry.
			The students understands the documented procedures required for ISO 9001:2000 and their implementation
			The students acquired knowledge on portfolio development and presentation technique.
			The students acquired knowledge on designing garments for season and occasion
42	16CDFPR3	PROJECT - Fashion Port Folio Presentation	The students understands the concept of prepararing mood board, story board, colour board.
			The students learnt on preparing fabric board
			The students understands the concept on design development
			The students understands how to present their finished garment.
			The students learn on presenting the garments as per themes and occasions.

## B.Sc (ELECTRONICS AND COMMUNICATION SYSTEMS)

			After the completion of the under graduate programme in Bachelor of Science (B.Sc Degree), the graduates will be able	
			to	
			Attain the core value in their respective area to meet out the global competitive edge.	
	PROGI	RAMME OUTCOME (PO):	Apply and update their skills towards their employability, entrepreneurship and its sustainability.	
			Realize their responsibility towards the society centre through ethical, social and human values.	
			Recognize the opportunities towards their up gradation and professional development in all spheres.	
			Ensure the quality in terms of all the aspects by the way of their contribution in work atmosphere.	
			After the completion of the under graduate programme in Bachelor of Science in Electronics and Communication Systems, the graduates will be able to	
	PROGRAMN	IE SPECIFIC OUTCOME (PSO):	Apply the knowledge of Science, mathematics and fundamentals to solve problems in the domain of Electronics and communication field.	
	ROGRAMIA	ESTECTIC OCTCOME (150).	Apply knowledge of Electronics and Communication principles in multidisciplinary environment and projects.	
			Apply professional and ethical principles and function with responsibility.	
S.No	Course Code	Course Name	Course Outcome	
			Understand the concept of passive components and connectivity's	
			Analyze the important laws in circuits and Network Theorems	
1	15BES101	Core 1- Basic Electronics	Study about the important terms of Alternating current and resonance circuits	
			Understand the concept of conductor, semiconductor and insulator, operation and characteristics of diode and transistor	
			study about special purpose diodes & its characteristics	
			Analyze the rectifier circuits & other circuits	
			Measure the parameters of the given resistors and capacitors.	
2	18BESP01	Core Practical 1 – Basic Electronics	verification of law's and theorem's	
			Realize the given performance using clipping and clamping circuits	
			Design various rectifier circuits	
			Synthesize and evaluate Regulated power supply	
			Understand the current voltage characteristics of semiconductor devices,	
3	15BES201	Core 2- Electronic Circuits	Analyze dc circuits and relate ac models of semiconductor devices with their physical Operation,	
,	13BE3201	Core 2- Electronic Circuits	Design and analyze of electronic circuits,	
			Evaluate frequency response to understand behavior of Electronics circuits.	
			Design the different oscillator circuits for various frequencies	
			Measure the parameters of the given transistor	
			Design amplifier circuits	
4	18BESP02	Core Practical 2- Electronic Circuits	mesure the frequency of various oscillator circuits	
				Analyse RC circuits for low pass and high pass filtering
			Design Bistable,Monostable and Astable Multivibrators using discrete components.	
			Use of different modulation and demodulation techniques used in analog communication	
5	15BES301	Core 3- Principles of Communication Systems	Identify and solve basic communication problems	
			Analyze transmitter and receiver circuits	
			Compare and contrast design issues, advantages, disadvantages and limitations of analog communication systems	
			Understand the concept of bioelectric signals	
			analyze the concept of electrodes and transducers	
6	15BES302	Core 4- Biomedical Instrumentation	To learn about Biomedical recording and patient monitoring system	
			Implement diagnostic and therapeutic equipments	
			Identify Advancements in medical instrumentation	
			verify Basic gates and universal gates	
		l e e e e e e e e e e e e e e e e e e e	verny basic gates and universal gates	

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7	18BES303	Core 5- Digital Electronics	Design and Simulate adder and subtractor digital circuits
			Analyze the mux, demux and encoder, decoder circuits
			Implement and test simple digital circuits
			verify Basic gates and universal gates
			Design and Simulate adder and subtractor digital circuits
8	18BESP03	Core Practical 3- Digital Electronics and	Analyze the mux , demux and encoder , decoder circuits
		Biomedical Instrumentation	Implement and test simple digital circuits
			define basic medical terms and physical values that can be handled by medical instrumentation,
			describe methods and implementation of electrical and nonelectrical medical parameters diagnostic
			Understand the fundamentals of C programming.
			Choose the loops and decision making statements to solve the problem.
9	18BESID3	IDC 3 – Programming using C	Implement different Operations on arrays.
			Use functions to solve the given problem.
			Implement file Operations in C programming for a given application
			Understand the Types of PCB and layout
10	15BESAO1	AOC I –Printed Circuit Board and	Analyze layout parameters and artwork
10	IJBESAOI	Fabrication/Visual programming	Design laminates and photo printing
			Analyze and design etching and soldring
			Analyze and design rules and automation
			Students list the visual programming concepts.
			Explain basic concepts and definitions.
11	15BESAO2	Visual programming	Express constants and arithmetic operations.
			Distinguish and the second second
			Distinguish variable and data types.
			Distinguish variable and data types.  Students code visual programs by using Visual Basic work environment.
			Students code visual programs by using Visual Basic work environment.
12	18BES401	Core 6 – Digital Communication	Students code visual programs by using Visual Basic work environment.  Acquire knowledge about fundamental concepts of communication systems  Understand the concepts of information theory
12	18BES401	Core 6 – Digital Communication	Students code visual programs by using Visual Basic work environment.  Acquire knowledge about fundamental concepts of communication systems  Understand the concepts of information theory  Design the sampling and quantizing method
12	18BES401	Core 6 – Digital Communication	Students code visual programs by using Visual Basic work environment.  Acquire knowledge about fundamental concepts of communication systems  Understand the concepts of information theory  Design the sampling and quantizing method  Apply the knowledge of multiplexing concepts
12	18BES401	Core 6 – Digital Communication	Students code visual programs by using Visual Basic work environment.  Acquire knowledge about fundamental concepts of communication systems  Understand the concepts of information theory  Design the sampling and quantizing method  Apply the knowledge of multiplexing concepts  Apply the knowledge of fiber optic communication
12	18BES401	Core 6 – Digital Communication	Students code visual programs by using Visual Basic work environment.  Acquire knowledge about fundamental concepts of communication systems  Understand the concepts of information theory  Design the sampling and quantizing method  Apply the knowledge of multiplexing concepts  Apply the knowledge of fiber optic communication  Understand the concepts of microcomputer and microprocessors and internal architecture of 8086 microprocessor.  Write and implement efficient structured assembly language programs to solve the problems using 8085
12	18BES401	Core 6 – Digital Communication  Core 7-8085 Microprocessor and its Interfacing	Students code visual programs by using Visual Basic work environment.  Acquire knowledge about fundamental concepts of communication systems  Understand the concepts of information theory  Design the sampling and quantizing method  Apply the knowledge of multiplexing concepts  Apply the knowledge of fiber optic communication  Understand the concepts of microcomputer and microprocessors and internal architecture of 8086 microprocessor.  Write and implement efficient structured assembly language programs to solve the problems using 8085 microprocessor.
			Students code visual programs by using Visual Basic work environment.  Acquire knowledge about fundamental concepts of communication systems  Understand the concepts of information theory  Design the sampling and quantizing method  Apply the knowledge of multiplexing concepts  Apply the knowledge of fiber optic communication  Understand the concepts of microcomputer and microprocessors and internal architecture of 8086 microprocessor.  Write and implement efficient structured assembly language programs to solve the problems using 8085 microprocessor.  Understand the concepts of 8085 microprocessor interrupts
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13	18BES402	Core 7-8085 Microprocessor and its Interfacing	Students code visual programs by using Visual Basic work environment.  Acquire knowledge about fundamental concepts of communication systems  Understand the concepts of information theory  Design the sampling and quantizing method  Apply the knowledge of multiplexing concepts  Apply the knowledge of fiber optic communication  Understand the concepts of microcomputer and microprocessors and internal architecture of 8086 microprocessor.  Write and implement efficient structured assembly language programs to solve the problems using 8085 microprocessor.  Understand the concepts of 8085 microprocessor interrupts  Write and implement programs to interface the 8085Microprocessor with Analog and Digital devices.  Understand motherboard circuitry and programmable peripheral devices such as 8054, 8259, 8251, RS232C, DMA controller.
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13	18BES402	Core 7-8085 Microprocessor and its Interfacing	Students code visual programs by using Visual Basic work environment.  Acquire knowledge about fundamental concepts of communication systems  Understand the concepts of information theory  Design the sampling and quantizing method  Apply the knowledge of multiplexing concepts  Apply the knowledge of fiber optic communication  Understand the concepts of microcomputer and microprocessors and internal architecture of 8086 microprocessor.  Write and implement efficient structured assembly language programs to solve the problems using 8085 microprocessor.  Understand the concepts of 8085 microprocessor interrupts  Write and implement programs to interface the 8085Microprocessor with Analog and Digital devices.  Understand motherboard circuitry and programmable peripheral devices such as 8054, 8259, 8251, RS232C, DMA controller.  Acquire knowledge about fundamental concepts and techniques used in power electronics.  Ability to analyze various single phase and three phase power converter circuits and understand their applications
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13	18BES402	Core 7-8085 Microprocessor and its Interfacing  Core 8- Integrated Circuits and Instrumentation	Students code visual programs by using Visual Basic work environment.  Acquire knowledge about fundamental concepts of communication systems  Understand the concepts of information theory  Design the sampling and quantizing method  Apply the knowledge of multiplexing concepts  Apply the knowledge of fiber optic communication  Understand the concepts of microcomputer and microprocessors and internal architecture of 8086 microprocessor.  Write and implement efficient structured assembly language programs to solve the problems using 8085 microprocessor.  Understand the concepts of 8085 microprocessor interrupts  Write and implement programs to interface the 8085Microprocessor with Analog and Digital devices.  Understand motherboard circuitry and programmable peripheral devices such as 8054, 8259, 8251, RS232C, DMA controller.  Acquire knowledge about fundamental concepts and techniques used in power electronics.  Ability to analyze various single phase and three phase power converter circuits and understand their applications  Foster ability to identify basic requirements for power electronics based design application  To develop skills to build, and troubleshoot power electronics circuits.  Foster ability to understand the use of power converters in commercial and industrial applications.  Provide practical hands-on experience with microprocessor applications and interfacing techniques.  Understand 8085 microprocessor kit, knowledge of 8085 instruction set and ability to utilize it in assembly language recomments.
13	18BES402	Core 7-8085 Microprocessor and its Interfacing	Students code visual programs by using Visual Basic work environment.  Acquire knowledge about fundamental concepts of communication systems  Understand the concepts of information theory  Design the sampling and quantizing method  Apply the knowledge of multiplexing concepts  Apply the knowledge of fiber optic communication  Understand the concepts of microcomputer and microprocessors and internal architecture of 8086 microprocessor.  Write and implement efficient structured assembly language programs to solve the problems using 8085 microprocessor.  Understand the concepts of 8085 microprocessor interrupts  Write and implement programs to interface the 8085Microprocessor with Analog and Digital devices.  Understand motherboard circuitry and programmable peripheral devices such as 8054, 8259, 8251, RS232C, DMA controller.  Acquire knowledge about fundamental concepts and techniques used in power electronics.  Ability to analyze various single phase and three phase power converter circuits and understand their applications  Foster ability to identify basic requirements for power electronics based design application  To develop skills to build, and troubleshoot power electronics circuits.  Foster ability to understand the use of power converters in commercial and industrial applications.  Provide practical hands-on experience with microprocessor applications and interfacing techniques.  Understand 8085 microprocessor kit, knowledge of 8085 instruction set and ability to utilize it in assembly language programming.
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13	18BES402	Core 7-8085 Microprocessor and its Interfacing  Core 8- Integrated Circuits and Instrumentation	Students code visual programs by using Visual Basic work environment.  Acquire knowledge about fundamental concepts of communication systems  Understand the concepts of information theory  Design the sampling and quantizing method  Apply the knowledge of multiplexing concepts  Apply the knowledge of fiber optic communication  Understand the concepts of microcomputer and microprocessors and internal architecture of 8086 microprocessor.  Write and implement efficient structured assembly language programs to solve the problems using 8085 microprocessor.  Understand the concepts of 8085 microprocessor interrupts  Write and implement programs to interface the 8085Microprocessor with Analog and Digital devices.  Understand motherboard circuitry and programmable peripheral devices such as 8054, 8259, 8251, RS232C, DMA controller.  Acquire knowledge about fundamental concepts and techniques used in power electronics.  Ability to analyze various single phase and three phase power converter circuits and understand their applications  Foster ability to identify basic requirements for power electronics based design application  To develop skills to build, and troubleshoot power electronics circuits.  Foster ability to understand the use of power converters in commercial and industrial applications.  Provide practical hands-on experience with microprocessor applications and interfacing techniques.  Understand 8085 microprocessor kit, knowledge of 8085 instruction set and ability to utilize it in assembly language programming.  Understand real mode Memory addressing and ability to interface various devices to the microprocessor.
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10	TODENIET	IDC T-C 110gramming 11acucai	
			This helps to understand different type of functions and String manipulation
			To be able to Define an object oriented approach to programming over other approaches.
			Obtain an overview of automotive components, subsystems, design cycles, communication protocols and safety systems employed in today's automotive industry
17	15BESAO3 AOG	AOC II -Automotive Electronics	Interface automotive sensors and actuators with microcontrollers
			Develop, simulate and integrate control algorithms for ECUs with hardware
			Knowledge of the structure and model of the Java programming language
			Use the Java programming language for various programming technologies
18	15BESAO4	Internet and Java Programming	Develop software in the Java programming language,
			Evaluate user requirements for software functionality
			Required to decide whether the Java programming
			Acquire knowledge about fundamental concepts and techniques used in power electronics.
			Ability to analyze various single phase and three phase power converter circuits and understand their applications
19	15BES501	Core 9- Industrial and Power Electronics	Foster ability to identify basic requirements for power electronics based design application
			To develop skills to build, and troubleshoot power electronics circuits.
			Foster ability to understand the use of power converters in commercial and industrial applications.
			Prosect around to understand the use of power converters in commercial and industrial applications.  Draw and describe architecture of 8051
20	18BES502	Core 10- 8051 Microcontroller and its Interfacing	Interface various peripheral devices to the microcontrollers.
			Write assembly language program for microcontrollers.
			Design microcontroller based system for various applications.
			Recognize the limitations of existing vacuum tubes and solid state devices at microwave frequencies.  Study the performance of specialized microwave tubes such as klystron, reflex klystron, magnetron and Travelling
21	18BES503	Core 11- Microwave and Fiber Optics	wave tube
21	16BL3505	Communication	Understand the operation of microwave devices
			Analyze RADAR and its applications
			Understand the concept of optical fiber commuication
			Design op-amp circuits to perform arithmetic operations
22	15BESP05	Core Practical 5- Integrated Circuits and Power Electronics	Analyze and design linear and non-linear applications using op-amps.
			Analyze and design oscillators and filters using functional ICs.
			Choose appropriate A/D and D/A converters for signal processing applications.
			Draw and describe architecture of 8051
23	18BESP06	Core Practical 6 – Microcontroller and its	Interface various peripheral devices to the microcontrollers.
		Interfacing	Write assembly language program for microcontrollers.
			Design microcontroller based system for various applications.
			Understand digital implemenation of IC's
			Design and Analyze PLC components
24	18BESE01	Programmable Logic Controller	Testing PLC Programming
			Synthesize PLC instructions
			Application of PLC
			Fundamentals of Hardware, handling, testing and troubleshooting of personal computer problems
			Identify the existing configuration of the computers & peripherals.
25	15BESE02	Computer Hardware and Maintenance	Apply their knowledge about computer peripherals to identify/rectify problems on board.
			Perform routine maintenance, upgrades of virus definitions, set schedules etc.
			Perform routine maninenance, upgraces of virus deminions, set schedules etc.  Analyze &/or troubleshoot communication problems related to Engine Room Automation & various Navigational  Bridge Equipment
			explain the core issues of cloud computing such as security, privacy, and interoperability.
			choose the appropriate technologies, algorithms, and approaches for the related issues.
26	18BESE03	Cloud Computing	identify problems, and explain, analyze, and evaluate various cloud computing solutions.
		ı	processing systems, and expansis, manyon, and extraorde controlling systems.

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			provide the appropriate cloud computing solutions and recommendations according to the applications used.
			attempt to generate new ideas and innovations in cloud computing.
			Foster ability to understand the internal architecture and interfacing of different peripheral devices with Microcontrollers.
27	18BES601	Core 12- Embedded Systems	Foster ability to write the programs for microcontroller.
			Describe the differences between the general computing system and the embedded system, also recognize the classification of embedded systems.
			Become aware of interrupts, hyper threading and software optimization.
			Describe the phases of planning and design of mobile wireless networks
28	18BES602	Core 13- Wireless Communication	List and compare personal area network (PAN) technologies such as Zigbee, Bluetooth etc
			Students will details of sensor network architecture, traffic related protocols, transmission technology etc
			Understand middleware protocol and network management issues of sensor networks
			Understand basic elements of a communication system
			Conduct analysis of baseband signals in time domain and in frequency domain
29	18BESP06	Core Practical 7- Analog and Digital Communication	Demonstrate understanding of various analog and digital modulation and demodulation techniques techniques.
			Analyse the performance of modulation and demodulation techniques in various transmission environments
			Appreciate the importance of synchronisation in communication systems
			Ability to identify the electrical, electronics and mechanical components and use of them design or machine elements and transmission system.
			Ability to design automatic manufacturing cells with robotic control
30	18BESE04	Robotics & Automation	Ability to understand the electronic control system in metal machining and other manufacturing process.
			Ability to understand the features and operation of automation products.
			Ability to communicate effectively and work in interdisciplinary groups
			Ability to review, comprehend and report technological development
			Design simple digital systems based on these digital abstractions, using the "digital paradigm" including discrete sampled information.
31	18BESE05	Digital System Design	Use the "tools of the trade": basic instruments, devices and design tools.
31	TOBESEOS	Digital System Design	Work in a design team that can propose, design, successfully implement and report on a digital systems project.
			Communicate the purpose and results of a design project in written and oral presentations.
			customize the specific parts of the Multimedia Applications (Power Point) software.
			prepare visuals by making arrangements on the slide master, and placeholders, etc.
32	15BESE06	Multimedia and its applications	add pictures and texts to the Multimedia Applications Software (Power Point) using a scanner and create an album using the available photos.
			add pictures and graphics from other files to the Multimedia Applications (Power Point).
			use action buttons, effect and animation features in the Power Point software.
			identify some of the factors driving the need for network security
			identify and classify particular examples of attacks
33	15BESE07	Network Security	define the terms vulnerability, threat and attack
			identify physical points of vulnerability in simple networks
			compare and contrast symmetric and asymmetric encryption systems and their vulnerability to attack, and explain the characteristics of hybrid systems.
			Student will be able to summarize the issues in real time computing
			Student will be able to explain and give examples of real time operating systems
34	18BESE08	Real Time Operating Systems	Student will be able to solve scheduling problems and can apply them in real time applications in industry
			Student will be able to solve scheduling problems and can apply them in real time applications in industry  Student can also design an RTOS and will be able to interpret the feasibility of a task set to accomplish or not
			Analyze the situation of fault occurrence and will be able to apply solutions accordingly.  Learn the basics of alectronics including sechamatics (alectronics diagrams)
			Learn the basics of electronics, including reading schematics (electronics diagrams)  Learn how to proteture circuits with a broadboard
35	18BESE09	Arduino	Learn how to prototype circuits with a breadboard
	1001231209	. namo	Learn the Arduino programming language and IDE
			Program basic Arduino examples
<u> </u>			Prototype circuits and connect them to the Arduino

## B.Sc (Visual Communication)

			After the completion of the under graduate programme in Bachelor of Science (B.Sc Degree), the graduates will be able
			to
			Attain the core value in their respective area to meet out the global competitive edge.
	PROGE	RAMME OUTCOME (PO):	Apply and update their skills towards their employability, entrepreneurship and its sustainability.
			Realize their responsibility towards the society centre through ethical, social and human values.
			Recognize the opportunities towards their up gradation and professional development in all spheres.
			Ensure the quality in terms of all the aspects by the way of their contribution in work atmosphere.
			Students in their program of study will  Procreate exhaustive, conception merchandise avail oneself of their break through knowledge of new technology and
PROGRAMME SPECIFIC OUTCOME (PSO):			traditional craft. Capability to promote their artistic personal design perception
			Identify problems, assume challenges and conceptualize solutions in extant fashion schemes.
			Conspire across restraint as a team leader, efficient member, ingenious designer, aesthetics and creativity.
S.No	Course Code	Course Name	Course Outcome
			The students understands the need and importance of Communication
			The students understands the different Levels of communication
1	16VCM101	Introduction to Visual Communication	The Students understands the Fundamentals of design
			The Students understands the Color psychology and color theory
			The Students understands the Digital histories and new media technologies
			The students understands the Basic Drawing using Color, Lights and Shades
			The students understands various perspective
2	16VCMP01	Core Lab I: Fine Art Production	The students understands types of shading
			The students understands pencil sketching
			The students understands how to use water color
			The students understands what are different types of writing in media
			The students understands what are different Elements of news story
3	16VCMID1	Writing for the Media	The students understands how to write different kind of news stories
			The students understands how to write for radio industry
			The students understands how to write for web industry (News Media)
			The students understands the Historical development of the press as a media
			The students understands the Study of leading newspapers journalists in India since 1947
4	16VCM201	Media History	The Students understands the Invention and development of radio as a medium of mass communication
			The Students understands the Film as medium of mass communication
			The Students understands the Development of the new media technologies in India
			The students understands the Practical knowledge on Image editing
			The students understand to Design Letters (Fonts)
5	16VCMP02	Graphic Arts- Information Design	The students understands how to use designing software
			The students understands how to design Logo for a company
			The students understands how to design print advertisment
			The students understands the growth of advertising in India
			The students understands the kinds of advertising in new media
6	16VCMID2	Advertising	The Students understands the Latest trends in advertising
		-	The Students understands the work profile in advertising company or agency
			The Students understands how to Conceptualization and create new ideas
			The students understands now to Conceptualization and create new rocas  The students understand the need and importance of Communication with the help of communication theories and model
			The seasons anderstand the need and importance of Communication with the neip of communication theories and model

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_	16VCM301		The students should understand the different Elements of Basic models in communication
7	16VCM301	Communication Theories	To make the student understand the Role and functions of mass media in society
			The students should understand the importance of effect theories in communication
			The students should get knowledge about the new media and technological oriented communication theories
			The students understand about the importance of lighting and its types
			The students are practical trained to capture Special effects such as freeze
8	16VCMP03	Digital Photography	The students understands and capture after dark movement.
			The students understands the technique of Aperture in photography
			The students understand the techniques of black and white photography
			The students understand the history of writing and language as a tool of communication
			The students understand about readability and its techniques along with the practical exercises
9	16VCMID3	Creative Writing	The students are trained to write about news along with the practical exercises
			The students understands about news selection and editorial writing
			The students are trained to write news story creatively and review the already published article
			The students understand the basics of web
10	16VCMA01	WID	The students understand about designing the website
10	16VCMA01	Web Designing	The students are given exposure about information architecture
			The students understanda about HTML coding
			The students understand the multimedia and its elements
			The students understand about the importance of text and image representation in multimedia
11	16VCMA02	MA02 Basic Multimedia	The studentsunderstand about digital audio, digital video formats of multimedia
			The students understand about the principles of 2d and 3d animation
			The students understand the basics of internet
12	16VCMEDI	E-Commerce	The students understand about the importance of search engine, TCT/IP, m-commerce
			The students understand about electronic devices used for e-commerce
			The students understand the various television and video file formate
			The students understand about the video productions and its work nature
13	16 VCM401	Television Production Techniques	The students understand about television production techniques: Single and multi camera production
			The students understand about various writing approches for video shoots
			The students understand about various lighting techniques for video shoots
			The students understand about writing scripts for Radio: Documentary, Radio drama and Interview
			The students understand about scripts of Television- Formats, Structure, Page breakdowns, Sitcoms
14	16 VCMP04	Script Writing	The students understand about fact film, film treatment, shooting script
			The students understand about the difference between shooting script and productin script
			The students understand about feature film: Story, Character, Story treatment, Art of Confrontation, Step outline,
			Dialogue devices  The students understand the mass communication- characteristics, growth,
			The students understand about contemporary importance of media in democratic modern society
15	16VCMID4	Media Society and Culture	The students understand about market oriented media and social dilemma
15	10 VCMID4	Media Society and Culture	
			The students understand about political economy of policy perspectives  The students understand about page society and Mass cultures.
			The students understand about mass society and Mass culture  The students understand the convent of CSS. Contine Stude Short
			The students understand the concept of CSS: Creating Style Sheet
16	16VCMA03	Web Designing II	The students understand the CSS Id and Class
			The students understand about how to Define a Dreamweaver site Using the Welcome screen
			The students understand about how web design basics working with thumbnails and wireframes
			The students understand what is new media and its Beginning with technology

] [	i		The students understand about Introduction to E-content - Multi Media- E-content development
17	16VCMA04	Content Development	·
			The students understand about E-Learning- History of e-learning- E-Learning Environment
			The students understand about Smart Class, E-publishing, E-Commerce, E-governance and Mobile learning
			The students understand what is Social Media Mix
18	16VCMED2	Social Media Marketing	The students understand what are all Cyber social Tools
			The students understand about Blogs, Podcast, and Video in new media context
			The students understand and communicate the Fundamental rights, Constitutional provisions and freedom of press.
			The students know the legal aspect of basic rights, obligations and the knowledge of rights to information.
19	16VCM501	Core 5: Media, Laws and Ethics	The students should know the media conglomeration towards commercial and public agenda.
			The students know about the importance of laws against official and privacy.
			The students understand the need cyber laws related to security concern.
			The students understand the history, growth and the development of cinema.
			The students should know the three stages of production work for the film or a video.
20	16VCM502	Film Studies	The students will know about the elements and the grammar of the films for the production.
			They will know the regulations for the film industry and the film association, clubs, film festival etc.,
			The students should understand the art film making and learn about the legends in the film industry.
			The students can write short radio script for PSA
			They can produce the short Radio production.
21	16VCMP06	Audio Production	The y can be trained in speech based recording
			They will produce live based recoring in the field
			Live based recording live interview
			Making a material of Non linear editing in editing suite
			They can create news presentation
22	16VCMP07	Video Editing	They can learn and experience the song shooting
			They can learn revoning of chroma keying
			They can learn VFX and EFX
			The students will know about the nature, method and scope psychological understanding.
			The students need to know the process of socialization learning process in the society.
23	16VCME01	Social Psychology	The students should experience the group types and dynamics of the communication in the society.
23	TO VENILUT	Social Toyellology	They will experience the dimensions in attitude towards the communication process in social change.
			The students should understand the behavioral aspects of the Psychology.
			The students will know integral part of the marketing in media.
	Legron er-	Y	The students need to know the process of socialization learning process in the society.
24	16VCME02	Integrated Marketing Communication	The students should experience behavioral aspects and communication method towards advertising and promotion.
			They will know clear idea about the research on advertising research.
			The students shall know about the promotion of digital marketing techniques.
			The students will know about famous cinemas all over the world with best director's ideas.
			The students will know the forms and theory of film and cinematography and direction.
25	16VCME03	World Cinema	The students will experience different languages of cinemas all over the world.
			They will know the Indian legends films makers and their film crafts.
			The students shall know about regional languages of India's famous film making legends.
			First unit of this subject help the student to understand about origin and development of public relations field.
			This unit is talking about different techniques which adopted by PR agencies.
26	16VCM601	Public Relations	This unit discussed about internet usage in PR field
			This unit described about usage of Social Media in PR field.

This was its saling about planning and equationing PR activities.	1 1	1	1	
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The students will understand different types of communication process involved in event management.  The students will get knowledge of marketing from this unit.  The students will understand Theme, Story and Screenplay of Cinematography.  The students will learn about feature films and short films from this unit.  The students will learn about Indian cinema history.  They understand major turning points and trends in Cinema.  They will understand world cinema  The students will understand basics of political Communication.  They will learn about relationship between the press and political Power.  They will understand Indian Democracy and political structure.				This unit will teach the students how to develop mission for Event management.
The students will get knowledge of marketing from this unit.  The students will understand Theme, Story and Screenplay of Cinematography.  The students will learn about feature films and short films from this unit.  The students will learn about Indian cinema history.  They understand major turning points and trends in Cinema.  They will understand world cinema  The students will understand basics of political Communication.  They will learn about relationship between the press and political Power.  They will understand Indian Democracy and political structure.	30	16VCME05	Elective: Event Management	This unit discussed about different types of marketing techniques.
The students will understand Theme, Story and Screenplay of Cinematography.  The students will learn about feature films and short films from this unit.  The students will learn about Indian cinema history.  They understand major turning points and trends in Cinema.  They will understand world cinema  The students will understand basics of political Communication.  They will learn about relationship between the press and political Power.  They will understand Indian Democracy and political structure.				The students will understand different types of communication process involved in event management.
The students will learn about feature films and short films from this unit.  The students will learn about Indian cinema history.  They understand major turning points and trends in Cinema.  They will understand world cinema  The students will understand basics of political Communication.  They will learn about relationship between the press and political Power.  They will understand Indian Democracy and political structure.				The students will get knowledge of marketing from this unit.
The students will learn about Indian cinema history.  They understand major turning points and trends in Cinema.  They will understand world cinema  The students will learn about relationship between the press and political Power.  They will understand Indian Democracy and political structure.				The students will understand Theme, Story and Screenplay of Cinematography.
They understand major turning points and trends in Cinema.  They will understand world cinema  The students will understand basics of political Communication.  They will learn about relationship between the press and political Power.  They will understand Indian Democracy and political structure.				The students will learn about feature films and short films from this unit.
They will understand world cinema  The students will understand basics of political Communication.  They will learn about relationship between the press and political Power.  They will understand Indian Democracy and political structure.	31	16VCME06	Elective: Film Appreciation and Criticism	The students will learn about Indian cinema history.
The students will understand basics of political Communication.  They will learn about relationship between the press and political Power.  They will understand Indian Democracy and political structure.				They understand major turning points and trends in Cinema.
They will learn about relationship between the press and political Power.  They will learn about relationship between the press and political Power.  They will understand Indian Democracy and political structure.				They will understand world cinema
32 16VCME07 Elective: Political Communication They will understand Indian Democracy and political structure.				The students will understand basics of political Communication.
				They will learn about relationship between the press and political Power.
They will understand the contemporary political environment.	32	16VCME07	Elective: Political Communication	They will understand Indian Democracy and political structure.
				They will understand the contemporary political environment.
They will learn about new types of social movements.				They will learn about new types of social movements.
The students will understand basics of Media managements and its nature.				The students will understand basics of Media managements and its nature.
They will learn about role of social media in media management.				They will learn about role of social media in media management.
33 16VCME08 Elective: Media Management They will learn about elements of design and principles of designs.	33	16VCME08	Elective: Media Management	They will learn about elements of design and principles of designs.
They will understand the role marketing in Media management.				They will understand the role marketing in Media management.
They will learn the role of promo and advertisement in media management.				They will learn the role of promo and advertisement in media management.
The students will learn about the fundamentals of film production.				The students will learn about the fundamentals of film production.
They will understand the fundamentals of film distribution.				They will understand the fundamentals of film distribution.
34 16VCME09 Elective: Film Appreciation and Criticism They will learn about budgeting of films.	34	16VCME09	Elective: Film Appreciation and Criticism	They will learn about budgeting of films.
This unit will teach about film perception.				This unit will teach about film perception.

			This unit discussed about different theories regarding films making.
			They will also learn script writing practices, which is the blue print for movie making
			By shooting variety of Short films & documentaries ,students are highly creative in expressing their thoughts& ideas
35	16VCMPR1	Project	They will coordinate among themselves and learn production team works in the field as cinematography, screenplay, editing&etc
			More practical knowleddge can be inculcated from their system of learning
			Students are adept to be trained for the current scenario media industry

# ${\bf B.Sc}({\bf CATERING~SCIENCE~AND~HOTEL~MANAGEMENT})$

			Attain the core value in their respective area to meet out the global competitive edge.
			Apply and update their skills towards their employability, entrepreneurship and its sustainability.
	PF	ROGRAM OUTCOME:	Realize their responsibility towards the society centre through ethical, social and human values.
			Recognize the opportunities towards their up gradation and professional development in all spheres.
			Ensure the quality in terms of all the aspects by the way of their contribution in work atmosphere.
			The students will be able to understand, practice and adopt skill set through practicals in Food Production, Food and Beverage Service, Housekeeping, Front Office, Bakery and Confectionary.
	PROGE	RAM SPECIFIC OUTCOME	Access library, computer and communications services and obtain information.
			required of Hotel, Restaurant, Accommodation Operations, Culinary professionals, Hospitality consultant, through the use of a competency based program.
S.No	Course Code	Course Name	Course Outcome
			To acquire theoritical knowledge in basic cookery.
1	16BHM101	Core 1- Food Production and Patisserie-I	Understand the basic operations of a professional Kitchen, man power planning and layout planning.  Familiarise Various terms used in preparation methods, measurement, mixing of food and various textures, principles of cooking by learning the methods of cooking
			Develope general knowledge on the origins and development of food service in hotels, restaurants, and institutions.
2	16BHM102	Core 2- Food and Beverage Service-I	Man power attrributes and oulets of the food and beverage operations.
			Understand and identify various food and beverage operational equipements & french classical menu
			Understand the role of the housekeeping department in hotel operations. Identify typical cleaning responsibilities of the housekeeping department,
3	16BHM103	Core 3- Housekeeping Management	Apply techniques to develop and improve human resource skills
			Manage inventories of recycled and non-recycled items, Control expenses, safety and security, Laundry Operations needs of hospitality operations
			Understand self awareness. Importance of goals and ways to stimulate them.
4	16BHMID1	IDC 1 : Personality Development	Understand the Importance of interpersonla skills and effective ways to improve them and stress removal techniques.
			Understand all about time management and tools to develop skills. Various attributes of personlaity types and leadership qualities.
			Understand Group discussion guidelines and Body language and ways to enhance it.
			Understand vegetable cooking by learning classification of vegetables, potatoes and reheating.
5	16BHM201	Core 4 - Food Production and Patisserie-II	Devlope Knowledge on cheese preparation and classification by understanding milk processing and binding agents.
			Understand Acquire basic knowledge of various kinds of Fish, meat, and poultry, their cuts and parts. And to understand about various stocks, sauces and soups.
			Develop Knowledge on Types of menu, laying a cover and order taking procedures.
6	16BHM202	16BHM202 Core 5- Food and Beverage Service-II	Classification of beverages and common styles of preparations.
			Method of room service, tray setup, Menu card and Billing methods.
			Identification of Equipments - Description, Uses & handling. Understand Kitchen Hygiene, safety and security.
7	16BHMP01	Core Practical 1- Food Production and Patisserie -I	Identification of Raw materials. Knife handling Skills.
	IOBHMPUI		Knowledge and preparation of different kinds of stock.
			Knowledge and preparation of different kinds of Sauces and two derivatives each.
			Appraising and drawing of cutlery, crockery, glassware and miscellaneous equipments.
8	16BHMP02	Core Practical 2 – Food and Beverage Service -I	Demonstrate Serviette folds. Laying and relaying of table cloths.
	10BHMP02	BHMP02   Core Practical 2 – Food and Beverage Service -I	Demonstrate Cleaning and polishing, wiping of cutlery, crockery and glassware.
			Demonstrate Tray Setup and Carrying and Cover Laying for French Classical Menu.

9	16BHMP03	Core Practical 3 - Housekeeping Management Practical	To develop knowledge on housekeeping Etiquettes with procedure, Equipement and its styles.  Develop knowledge types of guest rooms. Understand the various cleaning agents and their usage. Various areas of cleaning
10	16BHM301	Core 6 - Food Production and Patisserie-III	Manage manpower and duty allocations.  Acquire theoretical knowledge about Indian cookery, Quantity cooking, basic gravies and regional cookery.  Understand the Ingredients, characteristics, Festival dishes of India
11	16BHM302	Core 7- Food and Beverage Service-III	Understand and learn the details of Tandoor cooking, ingredients and marinations.  Gain knowledge of Billing Control & checking systems.  Knowledge of Alcoholic beverages, Meaning and classification
12	16BHM303	Core 8- Front Office Operations	Knowledge of types and production and types of alchohols.  Develop knowledge on types of hotels, rooms, and guest. Understand the attrobutes of the front office staff.  Knowledge of equipements used in front office and operations of reservations.  Develop knowledge on various types of account settlements and the checkout procedures and importance of Guest relation and social skills.
13	16BHM304	Core 9 - Bakery and Confectionery	Acquire theoretical knowledge in dough, paste, and icing.  Understand about the raw materials used in bakery  Develop knowledge on Bread and cake, meringue and cookies making and their faults.
14	16BHMAO1	Practical - Bakery and Confectionary	Acquire Professional skills in Bakery and Confectionery  Demonstrate Skill in making Breads, Buns, Cakes, Sponges, Icings.
15	16BHMAO2	Practical - Cake Icing and Decoration	Demonstrate Skill in making Various Pastes, Tarts, Pies, Puddings, pastries, Cookies.  Demonstrate Skill about Basic Icing making  Demonstrate Skill in application of different Icings in finished food Products  Demonstrate Skills in making decoration with Different Icing
16	16BHM401	Core 10 - Food Production And Patisserie-IV	Understand and learn International cuisine-Chinese cuisine, Sri Lankan cuisine  Understand and learn International cuisine-Japanese cuisine, Italian cuisine  Understand and learn International cuisine-Spanish cuisine, French cuisine, Mediterranean cuisine.  Understand and learn International cuisine - Scandinavian cuisines, United Kingdom, Mexican cuisine and Fusion Cuisine.
17	16BHM402	Corel1- Food and Beverage Service-IV	Acquire theoretical knowledge in wines, wines of different countries, cocktails and Mocktails.  Aquire good knowledge in Classification of French wines and their important, classification of Wines of Germany
			Gain knowledge of Wines of Italy and their classification. Understand the importance of wine and food with examples.
18	16BHMP04	Core Practical 4 - Food Production and Patisserie - II	Learn about Coktails and Mocktails, their meaning, method and classification.  Learn about Beverage list -Meaning and importantce. Method and order of listing and pricing beverages  Demosnstrate skill on Ten different menu will help learn the Preparation of Indian and International cuisine dishes consisting of soup, pasta, eggs, fish, chicken meat, Indian sweets and Desserts.  Demosnstration will help learn - Naan, kulcha, roti, chicken tikka, fish tikka, sheek kebab, Tandoori chicken, Hariyali chicken/ fish tikka, tangri kebab.
18	16BHMP04		Learn about Coktails and Mocktails, their meaning, method and classification.  Learn about Beverage list -Meaning and importantce. Method and order of listing and pricing beverages  Demonstrate skill on Ten different menu will help learn the Preparation of Indian and International cuisine dishes consisting of soup, pasta, eggs, fish, chicken meat, Indian sweets and Desserts.  Demonstration will help learn — Naan, kulcha, roti, chicken tikka, fish tikka, sheek kebab, Tandoori chicken, Hariyali chicken/ fish tikka, tangri kebab.  Demonstration will help learn — Tandoori chicken, Hariyali chicken/ fish tikka, tangri kebab.  Demonstration of Beverage order taking.  Demonstration of Service of Alchoholic Beverages.  Demonstration of Service of liqueur coffee and spirit coffee.
		п	Learn about Coktails and Mocktails, their meaning, method and classification.  Learn about Beverage list -Meaning and importantce. Method and order of listing and pricing beverages  Demostrate skill on Ten different menu will help learn the Preparation of Indian and International cuisine dishes consisting of soup, pasta, eggs, fish, chicken meat, Indian sweets and Desserts.  Demonstration will help learn — Naan, kulcha, roti, chicken tikka, fish tikka, sheek kebab, Tandoori chicken, Hariyali chicken/ fish tikka, tangri kebab.  Demonstration will help learn — Tandoori chicken, Hariyali chicken/ fish tikka, tangri kebab.  Demonstration of Beverage order taking.  Demonstration of Service of Alchoholic Beverages.
19	16BHMP05	II  Core Practical 5 - Food and Beverage Service -II	Learn about Coktails and Mocktails, their meaning, method and classification.  Learn about Beverage list -Meaning and importantce. Method and order of listing and pricing beverages  Demonstrate skill on Ten different menu will help learn the Preparation of Indian and International cuisine dishes consisting of soup, pasta, eggs, fish, chicken meat, Indian sweets and Desserts.  Demonstration will help learn — Naan, kulcha, roti, chicken tikka, fish tikka, sheek kebab, Tandoori chicken, Hariyali chicken/ fish tikka, tangri kebab.  Demonstration will help learn — Tandoori chicken, Hariyali chicken/ fish tikka, tangri kebab.  Demonstration of Beverage order taking.  Demonstration of Service of Alchoholic Beverages.  Demonstration of Service of liqueur coffee and spirit coffee.  Demonstration of Laying of Compiled menu and service with wine suggestions  Demonstrate skill in Situation handling and guest complaints.  Demonstrate skill in Reservation procedure, identification of rooms through the use of Conventional and Destiny Charts.

22	16BHME02	Fast food Operations	Understand the diferent Concept of Fast food Joints
			Aquire Knowledge about Equipments, Control measures and and types of food.
			Develope Knowedge on establishing Standards and Exploring Case studies
			Develop understanding about Safety Perspective
23	16BHME03	Food Safety Microbiology	Understanding about Varoius Mirobes Causing Contamination
		,	Aquire Knowledge on Food Hygiene revelat to various Products.
			Develope Understanding about food bourne Infection, Causes of Toxicity and FSSAI Regulations
			Gain knowledge about the types and motivation of travel by learning about the Principles of Tourism
			Learn the functions of travel agents and their role.
24	16BHMID4	IDC 4 – Travel and Tourism	Develope knowledge of the rules and regulations of travel pertaining to government organisations.
			Tour operators and travel requirements to understand travelling around the world.
25	16BHMAO3	Practical - Garden Manger	dentification of Equipments and Raw materials used in Garde Manger
20	10211111103	Thetien Surda Manger	Carving from Vegetable, Fruits, Thermocol, Butter Sculpture and Ice.
			Preparation of cold egg, chicken and red meats dishes and Plate and Mirror Presentation
			Develope Ability todemonstrae in making of Indian Milk Sweet.
26	16BHMAO4	Practical - Indian Sweets and Snacks	Develope Ability todemonstrae in making of Indian sweets with Various Raw Materials
			Develope Ability todemonstrae in making of Indian Snack made with different raw mterials
			Acquire theoretical knowledge about Garde manger kitchen operations, products prepared and about left over utilization.
27	16BHM501	Core 12 - Food Production and Patisserie-V	Functions of larder Department and its various details. Butchery: Meaning, functions of Butchery
			Force meat: Meaning, uses with recipes.Panada,Compound butters,Marinade,Brine their types and uses.
			Garnishes and their types. Standard Recipe and its importance. Details about stewarding department.
			Gueridon Service and its importance.
			Learning about Function catering: Introduction and types.
28	16BHM502	Core13- Food and Beverage Service-V	Outdoor catering and Specialized forms of service
			Details about Banquets and Buffets. Introduction to Mixology to learn about bar, and related beverages.
29	16BHM503	Core14- Food and Beverage Management	Food & Beverage function - Responsibilities & objectives of F&B department
29	16BHM503	Core14- Food and Beverage Management	Food & Beverage function - Responsibilities & objectives of F&B department  Purchasing of food & beverages and related details  Learning about Storing & issuing relates to Food and beverage control.Gain knowledge about the Elements of cost
29	16BHM503	Core14- Food and Beverage Management	Purchasing of food & beverages and related details
29	16BHM503	Core14- Food and Beverage Management	Purchasing of food & beverages and related details  Learning about Storing & issuing relates to Food and beverage control.Gain knowledge about the Elements of cost
29	16BHM503	Core 14- Food and Beverage Management  Core Practical 7 - Food Production and Patisserie -  III	Purchasing of food & beverages and related details  Learning about Storing & issuing relates to Food and beverage control. Gain knowledge about the Elements of cost Menu Engineering and Menu Merchandising  Acquire practical skills in advanced professional Continental cuisine
		Core Practical 7 - Food Production and Patisserie -	Purchasing of food & beverages and related details  Learning about Storing & issuing relates to Food and beverage control. Gain knowledge about the Elements of cost Menu Engineering and Menu Merchandising  Acquire practical skills in advanced professional Continental cuisine
		Core Practical 7 - Food Production and Patisserie -	Purchasing of food & beverages and related details  Learning about Storing & issuing relates to Food and beverage control. Gain knowledge about the Elements of cost  Menu Engineering and Menu Merchandising  Acquire practical skills in advanced professional Continental cuisine  Preparation of Salad, Soup.
		Core Practical 7 - Food Production and Patisserie -	Purchasing of food & beverages and related details  Learning about Storing & issuing relates to Food and beverage control.Gain knowledge about the Elements of cost Menu Engineering and Menu Merchandising  Acquire practical skills in advanced professional Continental cuisine  Preparation of Salad, Soup.  Preparation of Egg. Pasta.
		Core Practical 7 - Food Production and Patisserie -	Purchasing of food & beverages and related details  Learning about Storing & issuing relates to Food and beverage control.Gain knowledge about the Elements of cost  Menu Engineering and Menu Merchandising  Acquire practical skills in advanced professional Continental cuisine  Preparation of Salad, Soup.  Preparation of Egg. Pasta.  Preparation of Fish, Meat and Chicken.Preparation of Savoury and Desert.
30	16ВНМР07	Core Practical 7 - Food Production and Patisserie - III	Purchasing of food & beverages and related details  Learning about Storing & issuing relates to Food and beverage control.Gain knowledge about the Elements of cost Menu Engineering and Menu Merchandising  Acquire practical skills in advanced professional Continental cuisine  Preparation of Salad, Soup.  Preparation of Egg. Pasta.  Preparation of Fish, Meat and Chicken.Preparation of Savoury and Desert.  Cooking and Carving at Table.
30	16ВНМР07	Core Practical 7 - Food Production and Patisserie - III	Purchasing of food & beverages and related details  Learning about Storing & issuing relates to Food and beverage control.Gain knowledge about the Elements of cost Menu Engineering and Menu Merchandising  Acquire practical skills in advanced professional Continental cuisine  Preparation of Salad, Soup.  Preparation of Egg. Pasta.  Preparation of Fish, Meat and Chicken.Preparation of Savoury and Desert.  Cooking and Carving at Table.  Designing and Setting the Bar.
30	16ВНМР07	Core Practical 7 - Food Production and Patisserie - III	Purchasing of food & beverages and related details  Learning about Storing & issuing relates to Food and beverage control.Gain knowledge about the Elements of cost Menu Engineering and Menu Merchandising  Acquire practical skills in advanced professional Continental cuisine  Preparation of Salad, Soup.  Preparation of Egg. Pasta.  Preparation of Fish, Meat and Chicken.Preparation of Savoury and Desert.  Cooking and Carving at Table.  Designing and Setting the Bar.  Compiling an Alcoholic Beverage List.
30	16BHMP07	Core Practical 7 - Food Production and Patisserie - III	Purchasing of food & beverages and related details  Learning about Storing & issuing relates to Food and beverage control.Gain knowledge about the Elements of cost Menu Engineering and Menu Merchandising  Acquire practical skills in advanced professional Continental cuisine  Preparation of Salad, Soup.  Preparation of Egg, Pasta.  Preparation of Fish, Meat and Chicken.Preparation of Savoury and Desert.  Cooking and Carving at Table.  Designing and Setting the Bar.  Compiling an Alcoholic Beverage List.  Art of Mocktail Mixing
30	16ВНМР07	Core Practical 7 - Food Production and Patisserie - III  Core Practical 8 - Food And Beverage Service - III	Purchasing of food & beverages and related details  Learning about Storing & issuing relates to Food and beverage control.Gain knowledge about the Elements of cost Menu Engineering and Menu Merchandising  Acquire practical skills in advanced professional Continental cuisine  Preparation of Salad, Soup.  Preparation of Egg. Pasta.  Preparation of Fish, Meat and Chicken.Preparation of Savoury and Desert.  Cooking and Carving at Table.  Designing and Setting the Bar.  Compiling an Alcoholic Beverage List.  Art of Mocktail Mixing  Familiarise Role of Human resourse department and its policies and procedures
30	16BHMP07	Core Practical 7 - Food Production and Patisserie - III  Core Practical 8 - Food And Beverage Service - III  Human Resource Management in Hospitality	Purchasing of food & beverages and related details  Learning about Storing & issuing relates to Food and beverage control.Gain knowledge about the Elements of cost Menu Engineering and Menu Merchandising  Acquire practical skills in advanced professional Continental cuisine  Preparation of Salad, Soup.  Preparation of Egg, Pasta.  Preparation of Fish, Meat and Chicken.Preparation of Savoury and Desert.  Cooking and Carving at Table.  Designing and Setting the Bar.  Compiling an Alcoholic Beverage List.  Art of Mocktail Mixing  Familiarise Role of Human resourse department and its policies and procedures  Manpower Planning and Recruitment  performance Appraisal, Promortion and Punishments
30	16BHMP07	Core Practical 7 - Food Production and Patisserie - III  Core Practical 8 - Food And Beverage Service - III  Human Resource Management in Hospitality	Purchasing of food & beverages and related details  Learning about Storing & issuing relates to Food and beverage control.Gain knowledge about the Elements of cost Menu Engineering and Menu Merchandising  Acquire practical skills in advanced professional Continental cuisine  Preparation of Salad, Soup.  Preparation of Egg. Pasta.  Preparation of Fish, Meat and Chicken.Preparation of Savoury and Desert.  Cooking and Carving at Table.  Designing and Setting the Bar.  Compiling an Alcoholic Beverage List.  Art of Mocktail Mixing  Familiarise Role of Human resourse department and its policies and procedures  Manpower Planning and Recruitment  performance Appraisal, Promortion and Punishments  Administration of Wages and Salary and Industry Relationship
30	16BHMP07	Core Practical 7 - Food Production and Patisserie - III  Core Practical 8 - Food And Beverage Service - III  Human Resource Management in Hospitality	Purchasing of food & beverages and related details  Learning about Storing & issuing relates to Food and beverage control.Gain knowledge about the Elements of cost Menu Engineering and Menu Merchandising  Acquire practical skills in advanced professional Continental cuisine  Preparation of Salad, Soup.  Preparation of Egg. Pasta.  Preparation of Fish, Meat and Chicken.Preparation of Savoury and Desert.  Cooking and Carving at Table.  Designing and Setting the Bar.  Compiling an Alcoholic Beverage List.  Art of Mocktail Mixing  Familiarise Role of Human resourse department and its policies and procedures  Manpower Planning and Recruitment  performance Appraisal, Promortion and Punishments  Administration of Wages and Salary and Industry Relationship  Factors involving Contracts
30	16BHMP07	Core Practical 7 - Food Production and Patisserie - III  Core Practical 8 - Food And Beverage Service - III  Human Resource Management in Hospitality	Purchasing of food & beverages and related details  Learning about Storing & issuing relates to Food and beverage control.Gain knowledge about the Elements of cost Menu Engineering and Menu Merchandising  Acquire practical skills in advanced professional Continental cuisine  Preparation of Salad, Soup.  Preparation of Egg, Pasta.  Preparation of Fish, Meat and Chicken.Preparation of Savoury and Desert.  Cooking and Carving at Table.  Designing and Setting the Bar.  Compiling an Alcoholic Beverage List.  Art of Mocktail Mixing  Familiarise Role of Human resourse department and its policies and procedures  Manpower Planning and Recruitment  performance Appraisal, Promortion and Punishments  Administration of Wages and Salary and Industry Relationship  Factors involving Contracts  Food Regulations
31 32	16BHMP08 16BHMP08	Core Practical 7 - Food Production and Patisserie - III  Core Practical 8 - Food And Beverage Service - III  Human Resource Management in Hospitality Industry	Purchasing of food & beverages and related details  Learning about Storing & issuing relates to Food and beverage control.Gain knowledge about the Elements of cost Menu Engineering and Menu Merchandising  Acquire practical skills in advanced professional Continental cuisine  Preparation of Salad, Soup.  Preparation of Egg. Pasta.  Preparation of Fish, Meat and Chicken.Preparation of Savoury and Desert.  Cooking and Carving at Table.  Designing and Setting the Bar.  Compiling an Alcoholic Beverage List.  Art of Mocktail Mixing  Familiarise Role of Human resourse department and its policies and procedures  Manpower Planning and Recruitment  performance Appraisal, Promortion and Punishments  Administration of Wages and Salary and Industry Relationship  Factors involving Contracts  Food Regulations  Alchohol Regulations
31 32	16BHMP08 16BHMP08	Core Practical 7 - Food Production and Patisserie - III  Core Practical 8 - Food And Beverage Service - III  Human Resource Management in Hospitality Industry	Purchasing of food & beverages and related details  Learning about Storing & issuing relates to Food and beverage control.Gain knowledge about the Elements of cost Menu Engineering and Menu Merchandising  Acquire practical skills in advanced professional Continental cuisine  Preparation of Salad, Soup.  Preparation of Egg, Pasta.  Preparation of Fish, Meat and Chicken.Preparation of Savoury and Desert.  Cooking and Carving at Table.  Designing and Setting the Bar.  Compiling an Alcoholic Beverage List.  Art of Mocktail Mixing  Familiarise Role of Human resourse department and its policies and procedures  Manpower Planning and Recruitment  performance Appraisal, Promortion and Punishments  Administration of Wages and Salary and Industry Relationship  Factors involving Contracts  Food Regulations

34	16BHME06	Food Preservation	understanding of preservation of food through low temperature
			To develop an understanding of preservation of food through high temperature  Tecniques Involved in Food preservation using Various Medium.

## BCA

			1
			Understand the concepts of key areas in Computer Applications.
			Analyze and apply latest technologies to solve problems in the areas of computer applications.
	PROGE	RAMME OUTCOME (PO):	Analyze and synthesis computing systems through quantitative and qualitative techniques.
			Apply technical and professional skills to excel in business.
			Develop practical skills to provide solutions to industry, society and business.
			To equip the students to meet the requirement of Corporate world and Industry standard.
	PROGRAMM	IE SPECIFIC OUTCOME (PSO):	To engage in professional development and to pursue post graduate education in the fields of Information Technology and Computer Applications.
			To provide the students about computing principles and business practices in software solutions, outsourcing services, public and private sectors.
S.No	Course Code	Course Name	Course Outcome
			The students will be good enough in the basics of computer and programming.
			The students will be well trained in MS Word.
1	15BCA101	Introduction to Office Automation	The students will gain knowledge in MS Excel.
			The students are good in MS Power point Presentaion
			The students will be developed in creating MS Access Database.
			The students gained the knowledge in creating with MS Word document.
			The students acquired the knowledge about creating presentation and animation using power point.
2	15BCAP01	Office Automation and Internet Programming	The Students learnt to develop in creating MS Excel spread sheets.
			The students gained the knowledge about creating databases in MS Access.
			The students can get the training in working with internet and Email.
			The students will gain knowledge in BASICS Of C
3	15BCA201	Programming in C	The students will gain knowledge on control structures and arrays
			The students will gain knowledge in fuctions
			The Students will learn Structures and union ,Pointers and Strings
			the Students wil gain knowledge on file managemnt in C
			The students are trainted to use data types and operators in C
4	15BCAP02	Programming in C Lab	The students are trainted to use looping and arrays
			The Students learnt to develop programming using strings and pointers
			The Students learnt to develop programming using structures and unions
			The Students gain knowlede about file management
			The students can Apply C++ features to program design and implementation.
_	15001.001	Oli do la Inglia de Wildon	The students can Design and implement programs using C++.
5	15BCA301	: Object Oriented Programming With C++	The students can Analyze a problem description, design and build object-oriented software
			The students can Use C++ to demonstrate practical experience in developing object-oriented solutions.
			The students can Implement an achievable practical application and analyze issues related to object-oriented techniques
			The students Gain extensive knowledge on principles and modules of operating systems.
			The students can Understand key mechanisms in design of operating systems modules
6	15BCA302	Operating System	The students can Understand process management, concurrent processes and threads
			The students can Compare performance of processor scheduling algorithm
			The students can understand operating system concepts such as process management, synchronization,

			The students Have a comprehensive knowledge of the data structures and algorithms
			The students Have an understanding and practical experience of algorithmic design
7	15BCA303	Data Structures	The students Have practical experience of developing applications that utilize databases
			The students can Understand the issues involved in algorithm complexity and performance.
			The stuidents can Understand the importance of data and be able to identify the data requirement
			The students are trained to use data types and operators in C++
			The students are trained to use looping and arrays
8	18BCAP03	Data Structures and C++ Lab	The Students learnt to develop programming using overloading concepts
			The Students learnt to develop programming using stack and queue algorithms
			The Students gain knowlede about Searching Algorithm
			The students can understand about Internet services and features
			The students can gain proper knowledge about protocols, email
9	18BCAA01	Web Designing Using HTML	The students are learnt about HTML tags to develop web page designing
			The students can gain knowledge about how to use tables, images using HTML tags
			The students can gain knowledge about sound and videos and also develop FORM
			The students can easily learn about vector, shapes and bit maps
			The students can develop web page creation by layer,mask and other techniques in photoshop
10	18BCAA02	Web Designing Using photoshop	The students can learn about painting and editing tools and techniques
			The students can rearn about painting and conting tools and techniques  The students can gain knowledge about ADOBE Reader and also web gallery
			The students can apply special effects for an image
			The students can understand the concept of OOP as well as the purpose and usage principles of inheritance
11	15BCA401	Java Programming	The students can dentify classes, objects, members of a class
			The students can Create Java application programs using sound OOP practice
			The students can Use testing and debugging tools to discover errors of Java programs
			The students can Develop programs using the Java Collection API
			The studentts can Understand database concepts and structures
12	18BCA402	RDBMS	The students can Understand the objectives of data and information managemen
12	18BCA402	RDBMS	The students can Understand data modeling and database development process
12	18BCA402	RDBMS	The students can Understand data modeling and database development process  The students can Construct and normalize conceptual data models
12	18BCA402	RDBMS	The students can Understand data modeling and database development process  The students can Construct and normalize conceptual data models  The students can Implement a relational database into a database management system
12	18BCA402	RDBMS	The students can Understand data modeling and database development process  The students can Construct and normalize conceptual data models  The students can Implement a relational database into a database management system  The students can Apply java features to program design and implementation.
			The students can Understand data modeling and database development process  The students can Construct and normalize conceptual data models  The students can Implement a relational database into a database management system
12	18BCA402	RDBMS  Programming in Java	The students can Understand data modeling and database development process  The students can Construct and normalize conceptual data models  The students can Implement a relational database into a database management system  The students can Apply java features to program design and implementation.
			The students can Understand data modeling and database development process  The students can Construct and normalize conceptual data models  The students can Implement a relational database into a database management system  The students can Apply java features to program design and implementation.  The students can Design and implement programs using java beans
			The students can Understand data modeling and database development process  The students can Construct and normalize conceptual data models  The students can Implement a relational database into a database management system  The students can Apply java features to program design and implementation.  The students can Design and implement programs using java beans  The students can Analyze a problem description, design and build object-oriented concepts
			The students can Understand data modeling and database development process  The students can Construct and normalize conceptual data models  The students can Implement a relational database into a database management system  The students can Apply java features to program design and implementation.  The students can Design and implement programs using java beans  The students can Analyze a problem description, design and build object-oriented concepts  The students can create packages ,interfaces and applet using java
13	18BCAP04	Programming in Java	The students can Understand data modeling and database development process  The students can Construct and normalize conceptual data models  The students can Implement a relational database into a database management system  The students can Apply java features to program design and implementation.  The students can Design and implement programs using java beans  The students can Analyze a problem description, design and build object-oriented concepts  The students can create packages ,interfaces and applet using java  The students can create Java application programs using the techniques of client server
			The students can Understand data modeling and database development process  The students can Construct and normalize conceptual data models  The students can Implement a relational database into a database management system  The students can Apply java features to program design and implementation.  The students can Design and implement programs using java beans  The students can Analyze a problem description, design and build object-oriented concepts  The students can create packages interfaces and applet using java  The students can create Java application programs using the techniques of client server  The students can develop programs using SQL commands
13	18BCAP04	Programming in Java	The students can Understand data modeling and database development process  The students can Construct and normalize conceptual data models  The students can Implement a relational database into a database management system  The students can Apply java features to program design and implementation.  The students can Design and implement programs using java beans  The students can Analyze a problem description, design and build object-oriented concepts  The students can create packages ,interfaces and applet using java  The students can create Java application programs using the techniques of client server  The students can develop programs using SQL commands  The students can Design and implement Database
13	18BCAP04	Programming in Java	The students can Understand data modeling and database development process  The students can Construct and normalize conceptual data models  The students can Implement a relational database into a database management system  The students can Apply java features to program design and implementation.  The students can Design and implement programs using java beans  The students can Analyze a problem description, design and build object-oriented concepts  The students can create packages interfaces and applet using java  The students can create Java application programs using the techniques of client server  The students can develop programs using SQL commands  The students can Design and implement Database  The students can understand the concepts of select command
13	18BCAP04	Programming in Java	The students can Understand data modeling and database development process  The students can Construct and normalize conceptual data models  The students can Implement a relational database into a database management system  The students can Apply java features to program design and implementation.  The students can Design and implement programs using java beans  The students can Analyze a problem description, design and build object-oriented concepts  The students can create packages ,interfaces and applet using java  The students can create Java application programs using the techniques of client server  The students can develop programs using SQL commands  The students can Design and implement Database  The students can understand the concepts of select command  The students can create tables, forms related to consumer products.
13	18BCAP04	Programming in Java	The students can Understand data modeling and database development process  The students can Construct and normalize conceptual data models  The students can Implement a relational database into a database management system  The students can Apply java features to program design and implementation.  The students can Design and implement programs using java beans  The students can Analyze a problem description, design and build object-oriented concepts  The students can create packages ,interfaces and applet using java  The students can create Java application programs using the techniques of client server  The students can develop programs using SQL commands  The students can Design and implement Database  The students can understand the concepts of select command  The students can create tables, forms related to consumer products.  The students can create a table to show the database transcations
13	18BCAP04	Programming in Java  RDBMS LAB	The students can Understand data modeling and database development process  The students can Construct and normalize conceptual data models  The students can Implement a relational database into a database management system  The students can Apply java features to program design and implementation.  The students can Design and implement programs using java beans  The students can oreate packages interfaces and applet using java  The students can create Java application programs using the techniques of client server  The students can develop programs using SQL commands  The students can Design and implement Database  The students can understand the concepts of select command  The students can create tables, forms related to consumer products.  The students can create a table to show the database transcations  The students can understand multimedia and its combination concepts
13	18BCAP04	Programming in Java  RDBMS LAB	The students can Understand data modeling and database development process  The students can Construct and normalize conceptual data models  The students can Implement a relational database into a database management system  The students can Apply java features to program design and implementation.  The students can Design and implement programs using java beans  The students can Analyze a problem description, design and build object-oriented concepts  The students can create packages ,interfaces and applet using java  The students can create Java application programs using the techniques of client server  The students can develop programs using SQL commands  The students can develop programs using SQL commands  The students can understand the concepts of select command  The students can create tables, forms related to consumer products.  The students can create a table to show the database transcations  The students can understand multimedia and its combination concepts  The students can learnt about text, video, audio and animation

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16	15BCAA04	Graphic Design using CorelDraw	The students can create an object ,move an object
			The students can use special effects ,colors, for an object
			The students can understand how to import an image and trace the image
			The students can Understand .NET Framework
			The students can describe some of the major enhancements to the new version of Visual Basic
17	15BCA501	.Net Programming	The students can □Create applications using Microsoft Windows® Forms
			The students can Create applications that use ADO. NET
			The students Use Crystal Reports that may help in creating reports related to the project
			The students can Learn the need to create a Network
			The students can Learn about different layers and protocols present in those layers
18	18BCA502	Computer Networks	The students can Learn to configure the network devices
			The students can Learn about IP -Addressing.
			The students can Learn about Network Security
			The students can Understand the concept of OOP as well as the purpose and usage principles of inheritanc
		Phython Programming	The students can dentify classes, objects, members of a class
19	18BCA503		The students can Create Web application programs using sound OOP practice
			The students can Use testing and debugging tools to discover errors of Phython programs
			The students can Develop a web site using the Phython Programming
			The students can learn about E-commerce, E-business benefits and limitations
			The students can understand about mobile commerce and wireless applications
21	15BCAE01	E-Commerce	The students can understand about E-security in cyberspace
			The students learnt about E-payments and M-commerce
			The students can understand business tools and EDI
			The students learnt about evolution og client sever computing
			The students can gain knowleege about various system standards(Client server OS)
		Client Source Commuting	
20	18BCAE02	Client Server Computing	The students learnt about client hardware and software other components
20	18BCAE02	Client Server Computing	The students learnt about client hardware and software other components  The students can know about the server- hardware.network management
20	18BCAE02	Client Server Computing	The students can know about the server- hardware,network management
20	18BCAE02	Client Server Computing	The students can know about the server- hardware,network management  The students can understand about the networking concepts
20	18BCAE02	Client Server Computing	The students can know about the server- hardware, network management  The students can understand about the networking concepts  The students Know about the software product and process.
20	18BCAE02	Client Server Computing  Software Eng and Software Testing	The students can know about the server- hardware,network management  The students can understand about the networking concepts  The students Know about the software product and process.  The students Know about software characteristics, components and applications, methods and tools
			The students can know about the server-hardware,network management  The students can understand about the networking concepts  The students Know about the software product and process.  The students Know about software characteristics, components and applications, methods and tools  The students can Understand the software development paradigms
			The students can know about the server- hardware,network management  The students can understand about the networking concepts  The students Know about the software product and process.  The students Know about software characteristics, components and applications, methods and tools  The students can Understand the software development paradigms  The students can gain knowlege about various testing.
			The students can know about the server-hardware,network management  The students can understand about the networking concepts  The students Know about the software product and process.  The students Know about software characteristics, components and applications, methods and tools  The students can Understand the software development paradigms  The students can gain knowelege about various testing.  The students can understand about system, acceptance and implematation phase.
			The students can know about the server- hardware,network management  The students can understand about the networking concepts  The students Know about the software product and process.  The students Know about software characteristics, components and applications, methods and tools  The students can Understand the software development paradigms  The students can gain knowlege about various testing.  The students can understand about system, acceptance and implematation phase.  The students are trained to develop programs for .net framework
			The students can know about the server-hardware,network management The students can understand about the networking concepts The students Know about the software product and process. The students Know about software characteristics, components and applications, methods and tools The students can Understand the software development paradigms The students can gain knowelege about various testing. The students can understand about system, acceptance and implematation phase. The students are trained to develop programs for .net framework The students are trained to develop simple application using the concepts of inheritance
21	15BCAE03	Software Eng and Software Testing	The students can understand about the server-hardware,network management  The students can understand about the networking concepts  The students Know about the software product and process.  The students Know about software characteristics, components and applications, methods and tools  The students can Understand the software development paradigms  The students can gain knowelege about various testing.  The students can understand about system, acceptance and implematation phase.  The students are trained to develop programs for .net framework  The students are trained to develop simple application using the concepts of inheritance  The students are trained to develop simple application to generate auto passwords and GK test
21	15BCAE03	Software Eng and Software Testing	The students can understand about the networking concepts  The students Know about the software product and process.  The students Know about software characteristics, components and applications, methods and tools  The students Can Understand the software development paradigms  The students can gain knowelege about various testing.  The students can understand about system, acceptance and implematation phase.  The students are trained to develop programs for .net framework  The students are trained to develop simple application using the concepts of inheritance  The students are trained to develop simple application to generate auto passwords and GK test  The students can develop any kind of queries and various table manipulation can be done
21	15BCAE03	Software Eng and Software Testing	The students can understand about the networking concepts  The students Know about the software product and process.  The students Know about software characteristics, components and applications, methods and tools  The students can Understand the software development paradigms  The students can gain knowelege about various testing.  The students can understand about system, acceptance and implematation phase.  The students are trained to develop programs for .net framework  The students are trained to develop simple application using the concepts of inheritance  The students are trained to develop simple application to generate auto passwords and GK test  The students can develop any kind of queries and various table manipulation can be done  The students can develop programs with database connections over network
21	15BCAE03	Software Eng and Software Testing	The students can understand about the networking concepts  The students Know about the software product and process.  The students Know about software characteristics, components and applications, methods and tools  The students can Understand the software development paradigms  The students can gain knowelege about various testing.  The students can understand about system, acceptance and implematation phase.  The students are trained to develop programs for .net framework  The students are trained to develop simple application using the concepts of inheritance  The students are trained to develop simple application to generate auto passwords and GK test  The students can develop any kind of queries and various table manipulation can be done  The students can develop programs with database connections over network  The students are trained to develop using Phython language
21	15BCAE03	Software Eng and Software Testing	The students can understand about the networking concepts  The students Know about the software product and process.  The students Know about software characteristics, components and applications, methods and tools  The students can Understand the software development paradigms  The students can gain knowelege about various testing.  The students can understand about system, acceptance and implematation phase.  The students are trained to develop programs for .net framework  The students are trained to develop simple application using the concepts of inheritance  The students are trained to develop simple application to generate auto passwords and GK test  The students can develop any kind of queries and various table manipulation can be done  The students can develop programs with database connections over network  The students are trained to develop using Phython language  The students are trained to develop simple application using the concepts of inheritance
21	15BCAE03	Software Eng and Software Testing  Net Programming	The students can understand about the networking concepts  The students Know about the software product and process.  The students Know about software characteristics, components and applications, methods and tools  The students can Understand the software development paradigms  The students can gain knowelege about various testing.  The students can understand about system, acceptance and implematation phase.  The students are trained to develop programs for .net framework  The students are trained to develop simple application using the concepts of inheritance  The students are trained to develop simple application to generate auto passwords and GK test  The students can develop any kind of queries and various table manipulation can be done  The students can develop programs with database connections over network  The students are trained to develop using Phython language  The students are trained to develop simple application using the concepts of inheritance  The students are trained to develop simple application to connect client and server
21	15BCAE03	Software Eng and Software Testing  Net Programming	The students can understand about the networking concepts  The students Know about the software product and process.  The students Know about software characteristics, components and applications, methods and tools  The students Can Understand the software development paradigms  The students can gain knowelege about various testing.  The students can understand about system, acceptance and implematation phase.  The students are trained to develop programs for .net framework  The students are trained to develop simple application using the concepts of inheritance  The students are trained to develop simple application to generate auto passwords and GK test  The students can develop any kind of queries and various table manipulation can be done  The students can develop programs with database connections over network  The students are trained to develop simple application using the concepts of inheritance  The students are trained to develop simple application using the concepts of inheritance  The students are trained to develop simple application using the concepts of inheritance  The students are trained to develop simple application to connect client and server  The students are trained to develop simple application to connect client and server
21	15BCAE03	Software Eng and Software Testing  Net Programming	The students can understand about the networking concepts  The students Know about the software product and process.  The students Know about software characteristics, components and applications, methods and tools  The students can Understand the software development paradigms  The students can gain knowlege about various testing.  The students can understand about system, acceptance and implematation phase.  The students are trained to develop programs for .net framework  The students are trained to develop simple application using the concepts of inheritance  The students are trained to develop simple application to generate auto passwords and GK test  The students can develop any kind of queries and various table manipulation can be done  The students can develop programs with database connections over network  The students are trained to develop simple application using the concepts of inheritance  The students are trained to develop using Phython language  The students are trained to develop simple application using the concepts of inheritance  The students are trained to develop simple application to connect client and server  The students are trained to develop simple application to connect client and server  The students can connect with the database  The students can be trained to develop scripting code
21	15BCAE03	Software Eng and Software Testing  Net Programming	The students can understand about the networking concepts  The students Know about the software product and process.  The students Know about software characteristics, components and applications, methods and tools  The students Can Understand the software development paradigms  The students can gain knowelege about various testing.  The students can understand about system, acceptance and implematation phase.  The students are trained to develop programs for .net framework  The students are trained to develop simple application using the concepts of inheritance  The students are trained to develop simple application to generate auto passwords and GK test  The students can develop any kind of queries and various table manipulation can be done  The students can develop programs with database connections over network  The students are trained to develop simple application using the concepts of inheritance  The students are trained to develop simple application using the concepts of inheritance  The students are trained to develop simple application using the concepts of inheritance  The students are trained to develop simple application to connect client and server  The students are trained to develop simple application to connect client and server

24	15BCA601	Information Security	
24	ISBCA001	information security	The students learnt to find faults and fix faults in malicious program
			The students can understand methods of protection in operating systems
			The students gained knowledge about security requirements of databases.
			The students can Create PHP scripts that use object-oriented PHP.
			The students can Implement business logic within the database
25	15BCA602	PHP Programming	The students can Use stored procedures and triggers
			The students can Create and deploy a portable web-based system
			The students can Test and debug object-oriented PHP scripts
			The Students learnt to develop programming using PHP scripts and its datatypes
			The Students learnt to develop programming using arrays.
26	15BCAP08	PHP Programming	The Students learnt to develop programsusing forms and cookies
			The Students gain knowledege about image functions and graphics
			The Students gain knowledege about MySql
			The students can Identify constraints, uncertainties and risk of the system
			The students can identify and apply relevant problem solving methodologies
27	15BCAE04	Mobile Computing	The students can Design components, systems and/ or processes to meet required specification
			The students can Demonstrate research skills
			The students can Communicate effectively in ways appropriate to the discipline, audience and purpose.
			To introduce Android platform and its architecture.
28	15BCAE05	Introduction to Android Technology	To be familiarized with Intent, Broadcast receivers and Internet services.
			To work with SQLite Database and content providers.
			To integrate multimedia, camera and Location based services in Android Application.
			To explore Mobile security issues.
			Students will try to learn Basics of cloud computing.
29	15BCAE06	Cloud Computing	Students will be trained about Key concepts of virtualization.
29	ISBCALOO	Cloud Companing	Understand Different Cloud Computing services
			Cloud Implementation, Programming and Mobile cloud omputing
			The students can learn about Cloud Backup and solutions
			To understand the nature of software development and software life cycle process models etc
			To Explain methods of capturing, specifying, visualizing and analyzing software requirements.
30	15BCAE07	Software Project Management	To understand concepts and principles of software design and user-centric approach and principles of effective user interfaces.
			To know basics of testing and understanding concept of software quality assurance
			To understand need of project management and project management life
			The students can improve their Ability to developweb pages using HTML and Cascading Style Sheets.
			The students gain Knowledge of client-side(JavaScript) server-side scripting(PHP, ASP.NET) languages
31	15BCAE08	Web Technology	The students can understand about static and dynomic web pages
			The students can Familiarization withWeb Application Terminologies, Internet Tools, E -Commerce , web service
			The students can understand about Mobile Comunication
			Study software components of distributed computing systems.
			Know about the communication and interconnection architecture of multiple computer systems.
32	15BCAE09	Distributed Computing	Recognize the inherent difficulties that arise due to distributed-ness of computing esources.
			Understanding of networks & protocols, mobile & wireless computing and their applications to real world problems.
			At the end students will be familiar with the design, implementation and security issues of distributed system.
			The students can Learn critical thinking skills and inquiring skills through application-oriented project
			The students can develop projects in CS & IT in a team-work environ
ı l	Į.	1	same same action projects in Co. Co. 11 in a team work currion

33	15BCAPR01	Project and Viva Voce	The students can Learn literature survey skills.
			The students can Learn problem solving skills.
			Students will develop their innovative recent techniques
			The students can Learn proposal development skills to initiate an application-oriented project

#### BA ENGLISH

			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
	PROGI	RAMME OUTCOME (PO):	texts in multiple genres.  literary and cultural texts and understand the way these ideas, values, and themes inform and impact culture and society, both now and in the past.
			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 communicating and interpreting human experiences through
			literary representation using historical contexts and disciplinary methodologies.  behavioural attitude through literary subjects and shaping the students to become socially responsible citizens and critically analysing the literary works.
	PROGRAMM	ME SPECIFIC OUTCOME (PSO):	Educating students in both the artistry and utility of the English language through the study of literature and other contemporary forms of culture.
			Assisting students in the development of intellectual flexibility, creativity, and cultural literacy so that they may engage in life-long learning and provide academic environment to fit in a job.
S.No	Course Code	Course Name	Course Outcome
			Learn the use of language through prescribed texts.
1	16ENG001	English –I	Enables them to recognize and draw parallels to thoughts, feelings, ideas in the texts from life experiences.
			Exposes the students to know about prose writing over the centuries.
			Makes students curious about the subject of essay.
2	18BAE101	Core 1- Prose I	The learners are exposed to the lives of great men.
			Familiarizes students with various rhetoric devices
			the Students demonstrate literal and inferential comprehension of works of non-fiction (i.e. newspaper and magazine articles) through participation in discussion and writing activities.
3	18BAE102	Core 2 -Fiction-1	Students use strategies before, during, and after reading to aid in the construction and enhancement of meaning
			orients the students with fictional devices such as plot, characterization, dialogues, diction etc.
			Inculcates the knowledge of the history of the country of the native speakers.
			The students aware of the links between socio-political events and literary works.
4	18BAEID1	IDC 1- Social History of England	The significant events in British History
			Develop a sense of chronology
5	16ENG002	English – II	Enable students to write cogently and persuasively about literary texts
			Provides the students a knowledge of the significant contribution of great writers of poetry.
6	18BAE201	Core 3- Poetry-I	Provides the students a knowledge of the various forms and styles of English Poetry.
			Identifies a variety of forms and genres of poetry from diverse cultures and historic periods, such as haiku, tanka, sonnets, ballads, dramatic monologues, free verse, etc.
			The students to respond in discussions and in writing, using personal, literal, interpretative, and evaluative stances, to works of fiction and/or non-fiction.
7	100 4 5 202	Com A Pinting II	The students to use strategies before, during, and after reading to aid in the construction and enhancement of meaning
,	18BAE202	Core 4- Fiction-II	The students to identify and explain the significance of the essential literary elements of novels (i.e. character, setting, conflict, plot, climax, resolution, theme, tone, and point of view)
			The students to participate in discussions and draft writing which demonstrates an understanding of diverse cultural perspectives.
			Prepares the students in exploring the multitudinous aspects of English Literature.
		ma 4 W	The students have a comprehensive understanding of the growth and development of English literature.
8	18BAEID2	IDC 2 -History of English Literature	Examines literature from multiple eras, cultures and genres with critical understanding.
			Promotes intellectual independence and critical thinking.
			Lead students to effective performances in communication.
			Build in capacities for self criticism and facilitate growth
9	16ENG003	English III	Kindle the creativity of the students
			Identify the detective novels and its techniques

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			Enhances vocabulary of the students through idiomatic expressions
			Provide the knowledge of the significant contribution of great writers of poetry.
			Provide the knowledge of the various forms and styles of English Poetry.
10	15BAE301	Core 5 -Poetry-II	Identify a variety of forms and genres of poetry from diverse cultures, historic periods, such as sonnets, ballads, dramatic monologues, free verse, etc.
			Recognize the rhythms, metrics and other musical aspects of poetry.
			Identify the tone and themes of the poetry
			Create interest in theatrical skills.
11	15BAE302	Core 6- Drama-I	Enhance the skill of communication
			Strengthen the dramatic skills of the students.
			Make them familiarize the stage management
			Learn stage setting and background
			Give better exposure on the history of works.
12	16BAEID3	IDC 3 – Literary forms	Help students classify and interpret a work of art better.
12	100/12103	De 3 Eliciary forms	Explore works of literature through various forms
			Organise and arrange the literary work based on its style
			Classify the works according to their forms Introduce to the students the broad areas of phonetics such as Consonants and vowel sound, phonology and use of
			language in context.  Acquaint the students with the basic principles as well as methods of Phonetics.
			Strengthen Phonetic competence and performance of the students
13	16BAEA01	AOC I - An Introduction to Phonetics	
			Identify the basic sound structures
			Use articles according to the sound systems while speaking
			Familiarize students with administration terminologies in English and Mother Tongue
			Help them acquire a working knowledge in that field.
14	16BAEA02	AOC I Translation Task	Acquire prowess in the aptitude of comparing literary works in translated Versions.
			Learn the culture of other countries through translation
			Learn the grammatical structures between two languages
			Inculcate the communicative behavior among students.
			Introduce the language learning methods through literature.
15	16ENG004	English – IV	Enable the students to realize the various contexts of English for their best usage of the Language.
			Understand the basics of grammar
			Express views in LSR&W Skills
			Enhance the theatrical skills of the students.
			Acquaint the students with the stage and the role of actors.
16	15BAE401	Core 7 -Drama-II	
			Strengthen the dramatic skills of the students.
			Make them familiarize the stage management
			Learn stage setting and background
			Enable the students to identify the various modes of prose writing
17	16BAE402	Core 8 - Prose II	Develop the critical thinking ability of the student
			Equip them to write prose in as many different modes as possible
			Identify various modes of prose writings in relation to their socio-historic and cultural context
			Comprehend the ideas in prose.
			Introduce the phases of evolution in Indian Writing in English.
			Know the significance of Indian Writing in English
18	15BAEID4	IDC 4-Indian Writing in English	Acquaint learners to the pluralistic dimensions of this literature.
			Sensitize them to the value system of Indian Writings in literature.

			Make learners aware of prominent Indian writers
			Make the students proficient in Modern Period.
			Provide the students an opportunity to fully comprehend an author's creative genius as projected in his works.
19	15BAEA03	AOC II: - Intensive Study of an Author	Learn the authors specialisation in various genres
			Understand the work of the author intensively
			Expose to the style of the author's writing
			Make the students communicate effectively
	15BAEA04	AOC II -Lets Communicatie	Enable them to Speak Impromtu
20			Develop internal and external communications
			Enhance LSRW Skills
			Reply optimistically in written form.

#### M Sc (MATHEMATICS)

	PROGRAMME OUTCOME (PO):  PROGRAMME SPECIFIC OUTCOME (PSO):		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 a desirable and feasible career option.  Able to work effectively as a team member and leader in an ever changing professional environment.  Identify and analyze the real life problems using the principles of Mathematics and apply the Mathematical 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 effectively in teams.
S.No	Course Code	Course Name	Course Outcome
1	16MSM101	Algebra	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  Evaluate Trace, Transpose and understand Hermitian, unitary and normal Transformations
2	16MSM102	Real Analysis	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  Apply Lebesgue measure to get the theory of Riemann integration
3	16MSM103	Ordinary Differerntial Equations	Remember the second order linear equations with ordinary points  Understand the concept of Systems of first order equations  Analyze linear systems with constant coefficients  Apply Successive approximation  Evaluate Elementary linear and non linear oscillations
4	16MSM104	Numerical Methods	Remember Numerical differentiation and integration  Apply some methods for solving system of linear and non-linear equations  Understand the Solution of ordinary differential equations  Analyze Boundary value problems and characteristic value problems  Evaluate partial differential equations
			Remember divisibility and about primes  Apply the concept of congruence

5	16MSM105	Number Theory	
			Understand number theory from an Algebraic view point
			Analyze Quadratic reciprocity
			Evaluate Arithmetic functions
			Remember Limits and continuity
6	16MSM201	Complex Analysiss	Understand Complex Integration
6	16MSM201	Complex Analysius	Evaluate definite integrals using residuals
			Apply the concept of Partial fractions and Factorization
			Analyze Riemann Mapping on Polygons and rectangle
			Remember Second order equations in two independent variables
			Understand Cauchy problem, Homogeneous wave equation and Non-homogeneous wave equation
7	16MSM202	Partial Differential Equations	Evaluate vibrating string problem
			Apply the concept of Maximum and minimum principles
			Analyze the delta function and Green's function
			Remember energy and momentum
			Understand calculus of variation
8	16MSM203	Mechanics	Evaluate the examples of Lagrange's equations of motion
			Apply the concept of separability
			Analyze the transformations
			Develop their knowledge in the basic problems namely, observability, controllability, stability, stability and optimal control.
			Differentiate and solve the problems in linear systems and non-linear systems.
9	16MSM204	Control theory	Find the rank of matrices by using the concepts of observability and controllability.
			Easily understand the linear time varying system and linear time invariant system.
			Analyse non linear systems in optimal control.
			Remember the notion of loops and conditional statements and apply them by modifying the commands with respect to
			MATLAB.
10	18MSMEO1	Matlab	Get deep knowledge about the basics of MATLAB and can able to create arrays and plots using MATLAB.
			Apply the concepts of polynomials, curve fitting and interpolation in MATLAB.
			Implement the mathematical operations via arrays using MATLAB.
			Understand kinematics of fluid motion
11	18MSME02	Magneto Hydro Dynamics	Remember fundamental laws of electromagnetism
	10110111202	Magneto Tydio 2 ymmies	Anlyse alfven's theorem law of iso rotation.
			Evaluate incompresible viscus flows in the presence of magnetic fields.
			Apply the concept of stability and gravitational in stability
			Know the basic features of LATEX system.
12	18MSME03	Latex	Prepare their own document in different environments.  Understand how to type set mathematics symbols such as roots, arrows, Greek letters and complex math structures such
			as functions, stacked expressions, matrices, lists of figures and tables.
			Become a self-learner and begin investigating and learning new LATEX packages on their own.
			Become a self-learner and begin investigating and learning new LATEX packages on their own.  Remember operations research
13	18MSMID1	Operations Research	
13	18MSMID1	Operations Research	Remember operations research
13	18MSMID1	Operations Research	Remember operations research  Understand integer programming problem
13	18MSMID1	Operations Research	Remember operations research  Understand integer programming problem  Evaluate Non- linear programming problems
13	18MSMID1	Operations Research	Remember operations research  Understand integer programming problem  Evaluate Non- linear programming problems  Analyze simulation modeling and Generation of random numbers
13	18MSMID1	Operations Research Topology	Remember operations research  Understand integer programming problem  Evaluate Non- linear programming problems  Analyze simulation modeling and Generation of random numbers  Develop their abstract thinking skills.  Provide precise definitions and appropriate examples and counter provide precise definitions and appropriate examples
		· 	Remember operations research  Understand integer programming problem  Evaluate Non- linear programming problems  Analyze simulation modeling and Generation of random numbers  Develop their abstract thinking skills.  Provide precise definitions and appropriate examples and counter provide precise definitions and appropriate examples and counter their properties.  Appreciate the beauty of the mathematical results like uryzohn's lemma and understand the dynamics of the proof
		· 	Remember operations research  Understand integer programming problem  Evaluate Non- linear programming problems  Analyze simulation modeling and Generation of random numbers  Develop their abstract thinking skills.  Provide precise definitions and appropriate examples and counter provide precise definitions and appropriate examples and counter their properties.  Appreciate the beauty of the mathematical results like uryzohn's lemma and understand the dynamics of the proof techniques.

			Understand the fundamental equation of viscous compressible fluid
			Get an idea about bernoulli equation, momentum theorems and their various applications
15	16MSM302	Fluid Dynamics	-Analyze the motion of solid bodies in fluid
			Create a sound knowledge of boundary layer theory
			Apply boundary layer concept.
			Construct the probability distribution of a random variable based on a real world situation and use it to compute expectation and variance.
	Compute probabilities based on practical situations using the binomial,not  16MSM303 Mathematical Statistics Understand the limiting process of distributions and solve related problem	Compute probabilities based on practical situations using the binomial,normal, F and t distributions.	
16		Mathematical Statistics	
			Master the syllabus and will be able to read research reports, to do researchin this field. It will help the students to face slet, net and csirexaminations.
			Apply testof significance for large samples.
			Understand the preliminaries of both undirected graphs and directed graphs.
17	18MSM304	Graph theory	Visualize the concept of planar graph and connectivity.
			Apply the concept of Eulerian graph and Hamiltonian graph.
			Analyze both vertex colouring and edge colouring as well as matchings in graphs.
			Understand the analytic representation.
			Analyse the natural equations .
18	18MSME04	Differntial Geometry	Apply Eulers theorem.
			Remember elimentary theory of surface.
			Solve the equations of codazzi.
			Remember encryption and secrecy.
			Apply basic properties of finite fields
19	18MSME05	Cryptography	
			Understand symmetric key encryption
			Analyse public key criptography
			Apply protocols and mechanisms
			Remember about the finite state automata.
20	18MSME06	Automata Theory	Apply Regular languages
		•	Understand the conversion of NFA to DFA
			Analyse about the grammar
			Apply formal languages to push down automata
21	16MSMED1	Web Desining	Understand the data types -operators and expressions.
41	TOWNSWIEDI		Apply the concept of arrys.
			Analyse working with cookies and user session.
			have a clear understanding of Normed linear spaces, Banach spaces, Hilbert spaces and B(X,Y) understand some important, but simple to follow theorems such as the best understand some important, but simple to follow theorems such as the besttheorem.
22	16MSM401	Functional Analysis	have full grasp of the three important theorems of functional analysis namely Hahn-Banach theorem, the uniform boundedness principle and the closed graph theorem.
			Apply the concepts and results covered in the course to numerical analysis and operator equations.
			Remember the determinants and spectrum of an operator .
			Provide a practical working knowledge of mathematics.
			Derive some classical differential equations by using principles of calculus of variations.
23	16MSM402	Mathematical Methods	
-			Solve volterra integral equations and Fredholm integral equations.
			Acquire the mathematical skills required to solve problems arising in daily life.
			Applyapproximation method
	16MSM403	ISM403 Fuzzy sets and Fuzzy logic	Remember the crisp set and operations on crisp sets
24			Understand the fuzzy sets and fuzzy relations
24 10	101/151/1403		analyse the fuzzy measures.

			evaluate measures of fuzziness.
			Apply the management and dessition making.
	Remember Mathematical Neuron Model	Remember Mathematical Neuron Model	
		Analyze Perceptron Architectures	Analyze Perceptron Architectures
25	18MSME07	Neural Networks	Understand Hebb Rule, Pseudo inverse Rule and Variations of Hebbian Learning  Apply the concept of Taylor series
			Evaluate Directional Derivatives
	Remember stochastic alaiogs of clasical differential equations.	Remember stochastic alaiogs of clasical differential equations.	
			Understand martingale representation theorm and Ito formula.
26	18MSME08	Stochastic Differential Equations	Apply the concept oh Ito integral.
			Sollve filtering problems.
			Analyse the basic properties like Markov property and Dynkin formula.
			Understand the average in methods .
27	18MSME09	Non linear Differential Equations	Apply perturbation method.
	Analyse linear systems .  Evaluate the stebility of linear systems.	· 	Analyse linear systems .
		Evaluate the stebility of linear systems.	

#### $\mathbf{M.Sc}(\mathbf{ELECTRONICS} \ \mathbf{AND} \ \mathbf{COMMUNICATION} \ \mathbf{SYSTEMS})$

PROGRAMME OUTCOME (PO):  PROGRAMME SPECIFIC OUTCOME (PSO):			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 a desirable and feasible career option.  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.
S.No	S.No Course Code Course Name		Design and develop innovative electronics products in such a way to meet out the societal needs.  Course Outcome
1	18MES101	Paper I : Control Systems	Students will be able to explain principle of operation for various sensors.  Students will be able to describe functional blocks of data acquisition system.  Students will be able to find transfer functions for given system.  Students will be able to calculate time domain and frequency domain parameter for given system  Students will be able to predict stability of given system using appropriate criteria.
2	18MES102	Paper II : MEMS and Power Drives	Be familiar with the important concepts applicable to MEMS, their fabrication.  Be fluent with the design, analysis and Apply the MEMS for different applications.  Acquire knowledge about fundamental concepts and techniques used in power electronics  Ability to analyze various single phase and three phase power converter circuits and understand their applications.  Recognize the role power electronics play in the improvement of energy usage efficiency and the applications of Mems and power electronics in emerging areas.
3	18MES103	Paper III: 8051 Micro Controller and Its Applications	Draw and describe architecture of 8051 microcontroller.  Interface various peripheral devices to the microcontrollers.  Write assembly language program for microcontrollers.  Design microcontroller based system for various applications.  Develop interfacing to real world devices
			Analyse and interpret data in communication communication technology.  Able to design the different multiplexing schemes in Communication scenario.

4	18MES104	Paper IV : Digital Communications	Able to analyse and use the various sources ofmicrowave energy and the characters of its operation.
			Able to exhibit the professional knowledge and accept ethical responsibilities to solve the problems of industry and society.
			Able to analyze optical source, Fiber and Detector operational parameters.
			Describe the architecture of 8051 microcontroller and write embedded programs for 8051 microcontroller.
5		Practical I: Microcontroller Programming	Design the interfacing for 8051 microcontroller.
	18MESP01		Select elements for an embedded systems tool.
			Analyze abstract problems and apply a combination of hardware and software to address the problem
			Make use of standard test and measurement equipment to evaluate digital interfaces.
		Practical II : Electronics and Communication Systems	Analyse and interpret data in communication communication technology.
6	18MESP02		Able to design the different multiplexing schemes in Communication scenario.
			Able to analyse and use the various sources ofmicrowave energy and the characters of its operation.  Able to exhibit the professional knowledge and accept ethical responsibilities to solve the problems of industry and society.
			Able to analyze optical source, Fiber and Detector operational parameters.
			Demonstrate a clear understanding of CMOS fabrication flow and technology scaling.
			Draw layout of a given logic circuit
7	15MES201	Paper V: VHDL Programming	Design MOSFET based logic circuit
			Demonstrate an understanding of working principle of operation of different types of memories
			Demonstrate an understanding of working principles of clocking, power reduction and distribution
			Able to design, development, programming and testing of a PIC microcontroller embedded system
			Able to demonstrate a working knowledge of the necessary steps and methods used to interface a microcontroller system to devices such as motors, sensors, etc.
8	18MES202	Paper VI: Embedded Systems and Real Time Operating Systems	Able to identify the hardware and software components of appropriate embedded system architecture for the given application.
			Able to Know the hardware Design, Software Development & RTOS for the Embedded Systems.
			Able to write programs optimized performance of an embedded system and validate.
			Students can interface peripheral devices with embedded processors.
			Students can interface peripheral devices with embedded processors.
9	18MESP03	Practical III: Embedded Systems	Students can interface peripheral devices with embedded processors.  Students can choose appropriate microcontroller for the design specification with reference to a real time problem.
9	18MESP03	Practical III: Embedded Systems	
9	18MESP03	Practical III: Embedded Systems	Students can choose appropriate microcontroller for the design specification with reference to a real time problem.
			Students can choose appropriate microcontroller for the design specification with reference to a real time problem.  Students can troubleshoot embedded based hardware devices
9	18MESP03	Practical III: Embedded Systems  Practical IV: VHDL Programming	Students can choose appropriate microcontroller for the design specification with reference to a real time problem.  Students can troubleshoot embedded based hardware devices  Develop an understanding to design Finite State Machines
			Students can choose appropriate microcontroller for the design specification with reference to a real time problem.  Students can troubleshoot embedded based hardware devices  Develop an understanding to design Finite State Machines  Design a digital system or component in order to meet a set of specification  Code combinational and sequential digital circuits using different styles of modeling of VHDL.
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10	15MESP04	Practical IV: VHDL Programming	Students can choose appropriate microcontroller for the design specification with reference to a real time problem.  Students can troubleshoot embedded based hardware devices  Develop an understanding to design Finite State Machines  Design a digital system or component in order to meet a set of specification  Code combinational and sequential digital circuits using different styles of modeling of VHDL.  Test the functionality of their design by writing Test Benches.  Understand about various types of signals and systems, classify them, analyze them, and perform various operations on them,  Understand use of transforms in analysis of signals and system in continuous and discrete time domain.  Evaluate the time and frequency response of Continuous and Discrete time systems which are useful to understand the behaviour of electronic circuits and communication system.  Observe the effect of various properties and operations of signals and systems.
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10	15MESP04 18MESE01	Practical IV: VHDL Programming  Elective I Signals and Systems	Students can choose appropriate microcontroller for the design specification with reference to a real time problem.  Students can troubleshoot embedded based hardware devices  Develop an understanding to design Finite State Machines  Design a digital system or component in order to meet a set of specification  Code combinational and sequential digital circuits using different styles of modeling of VHDL.  Test the functionality of their design by writing Test Benches.  Understand about various types of signals and systems, classify them, analyze them, and perform various operations on them,  Understand use of transforms in analysis of signals and system in continuous and discrete time domain.  Evaluate the time and frequency response of Continuous and Discrete time systems which are useful to understand the behaviour of electronic circuits and communication system.  Observe the effect of various properties and operations of signals and systems.  Understand the limitations of Fourier transform and need for Laplace transform and develop the ability to analyze the system in s-domain.  To learn the basic elements of optical fiber transmission link, fiber modes configurations and structures.  To understand the different kind of losses, signal distortion, SM fibers  To learn the various optical sources, materials and fiber splicing
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10	15MESP04 18MESE01	Practical IV: VHDL Programming  Elective I Signals and Systems	Students can choose appropriate microcontroller for the design specification with reference to a real time problem.  Students can troubleshoot embedded based hardware devices  Develop an understanding to design Finite State Machines  Design a digital system or component in order to meet a set of specification  Code combinational and sequential digital circuits using different styles of modeling of VHDL.  Test the functionality of their design by writing Test Benches.  Understand about various types of signals and systems, classify them, analyze them, and perform various operations on them.  Understand use of transforms in analysis of signals and system in continuous and discrete time domain.  Evaluate the time and frequency response of Continuous and Discrete time systems which are useful to understand the behaviour of electronic circuits and communication system.  Observe the effect of various properties and operations of signals and systems.  Understand the limitations of Fourier transform and need for Laplace transform and develop the ability to analyze the system in s-domain.  To learn the basic elements of optical fiber transmission link, fiber modes configurations and structures.  To understand the different kind of losses, signal distortion, SM fibers  To learn the various optical sources, materials and fiber splicing  To learn the fiber optical receivers and noise performance in photo detector.  Understand the concept of Intelligent instrumentation
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10	15MESP04 18MESE01	Practical IV: VHDL Programming  Elective I Signals and Systems  Fiber Optic Communications	Students can choose appropriate microcontroller for the design specification with reference to a real time problem.  Students can troubleshoot embedded based hardware devices  Develop an understanding to design Finite State Machines  Design a digital system or component in order to meet a set of specification  Code combinational and sequential digital circuits using different styles of modeling of VHDL.  Test the functionality of their design by writing Test Benches.  Understand about various types of signals and systems, classify them, analyze them, and perform various operations on them,  Understand use of transforms in analysis of signals and system in continuous and discrete time domain.  Evaluate the time and frequency response of Continuous and Discrete time systems which are useful to understand the behaviour of electronic circuits and communication system.  Observe the effect of various properties and operations of signals and systems.  Understand the limitations of Fourier transform and need for Laplace transform and develop the ability to analyze the system in s-domain.  To learn the basic elements of optical fiber transmission link, fiber modes configurations and structures.  To understand the different kind of losses, signal distortion, SM fibers  To learn the various optical sources, materials and fiber splicing  To learn the fiber optical receivers and noise performance in photo detector.  To learn link budget, WDM, solitons and SONET/SDH network.  Understand the concept of Intelligent instrumentation  Identify the optimized protocol selection according to the application area  Design complete automatic process control system
10	15MESP04 18MESE01	Practical IV: VHDL Programming  Elective I Signals and Systems  Fiber Optic Communications	Students can choose appropriate microcontroller for the design specification with reference to a real time problem.  Students can troubleshoot embedded based hardware devices  Develop an understanding to design Finite State Machines  Design a digital system or component in order to meet a set of specification  Code combinational and sequential digital circuits using different styles of modeling of VHDL.  Test the functionality of their design by writing Test Benches.  Understand about various types of signals and systems, classify them, analyze them, and perform various operations on them,  Understand use of transforms in analysis of signals and system in continuous and discrete time domain.  Evaluate the time and frequency response of Continuous and Discrete time systems which are useful to understand the behaviour of electronic circuits and communication system.  Observe the effect of various properties and operations of signals and systems.  Understand the limitations of Fourier transform and need for Laplace transform and develop the ability to analyze the system in s-domain.  To learn the basic elements of optical fiber transmission link, fiber modes configurations and structures.  To understand the different kind of losses, signal distortion, SM fibers  To learn the various optical sources, materials and fiber splicing  To learn the fiber optical receivers and noise performance in photo detector.  To learn link budget, WDM, solitons and SONET/SDH network.  Understand the concept of Intelligent instrumentation  Identify the optimized protocol selection according to the application area

14	15MESID1	IDC1: Web Technologies	Discuss the insights of internet programming and implement complete application over the web  Demonstrate the important HTML tags for designing static pages and separate design from content using Cascading Style sheet.  Utilize the concepts of JavaScript and Java.  Use web application development software tools i.e.Ajax, PHP and XML etc. and identify the environments currently available on the market to design web sites.
15	18MES301	Paper VII: Digital Signal Processing	To understand the key theoretical principles underpinning DSP in a design procedure through design examples and case studies.  To learn how to use a powerful general-purpose mathematical package such as MATLAB to design and simulate a DSP systems.  To understand the architecture of a digital signal processor and some programming issues in fixed-point digital signal processor in real-time implementation.  To Prepare the students to excel in post graduate programmes or to succeed in industry.  To implement finite impulse response (FIR) and infinite impulse response (IIR) filters using different structures and to determine the system transfer function and difference equation.
16	15MES302	Paper VIII : ARM Processor	Understand the features of embedded systems, architecture of ARM7 and applications.  Analyse and understand the instruction set and development tools of ARM.  Understand the exception, interrupts and interrupt handling schemes.  Understand the architectural features of LPC2148 Microcontrollers.  Understand the hardware and interfacing peripheral devices to LPC2148
17	18MES303	Paper IX: Advanced Wireless Communication	Describe the phases of planning and design of mobile wireless networks.  List and compare personal area network (PAN) technologies such as Zigbee, Bluetooth etc.  Students will details of sensor network architecture, traffic related protocols, transmission technology etc.  Understand middleware protocol and network management issues of sensor networks.
18	18MESP05	Practical V : Digital Signal Processing	Able to find various applications of wireless communication and networks in specific area.  To understand the key theoretical principles underpinning DSP in a design procedure through design examples and case studies.  To learn how to use a powerful general-purpose mathematical package such as MATLAB to design and simulate a DSP systems.  To understand the architecture of a digital signal processor and some programming issues in fixed-point digital signal processor in real-time implementation.  To Prepare the students to excel in post graduate programmes or to succeed in industry.
			To implement finite impulse response (FIR) and infinite impulse response (IIR) filters using different structures and to
19	15MESP06	Practical VI : ARM Processor Programming	determine the system transfer function and difference equation .  Arm-based microcontrollers as modern embedded computing platforms  Understand the Software design basics, software engineering principles  Ability to choose between different programming techniques for embedded system design  Ability to build an Arm-based embedded system and program to satisfy given user specifications
19	15MESP06	Practical VI : ARM Processor Programming  Elective II: Nano Electronics	determine the system transfer function and difference equation .  Arm-based microcontrollers as modern embedded computing platforms  Understand the Software design basics, software engineering principles  Ability to choose between different programming techniques for embedded system design  Ability to build an Arm-based embedded system and program to satisfy given user specifications  Ability to use commercial tools to develop Arm-based embedded systems  Explain the fundamental principles of nanotechnology and their application.  Understand the synthesis of nanomaterials and their application and the impact of nanomaterials on environment  Apply their learned knowledge to develop Nanomaterial's.  Identify the principles of processing, manufacturing and characterization of nanomaterials and nanostructures.  Evaluate and analyze the mechanical properties of bulk nano structured metals and alloys, nanocomposites and carbon
			determine the system transfer function and difference equation .  Arm-based microcontrollers as modern embedded computing platforms  Understand the Software design basics, software engineering principles  Ability to choose between different programming techniques for embedded system design  Ability to build an Arm-based embedded system and program to satisfy given user specifications  Ability to use commercial tools to develop Arm-based embedded systems  Explain the fundamental principles of nanotechnology and their application.  Understand the synthesis of nanomaterials and their application and the impact of nanomaterials on environment  Apply their learned knowledge to develop Nanomaterial's.  Identify the principles of processing, manufacturing and characterization of nanomaterials and nanostructures.
20	18MESE04	Elective II: Nano Electronics	determine the system transfer function and difference equation .  Arm-based microcontrollers as modern embedded computing platforms  Understand the Software design basics, software engineering principles  Ability to choose between different programming techniques for embedded system design  Ability to build an Arm-based embedded system and program to satisfy given user specifications  Ability to use commercial tools to develop Arm-based embedded systems  Explain the fundamental principles of nanotechnology and their application.  Understand the synthesis of nanomaterials and their application and the impact of nanomaterials on environment  Apply their learned knowledge to develop Nanomaterial's.  Identify the principles of processing, manufacturing and characterization of nanomaterials and nanostructures.  Evaluate and analyze the mechanical properties of bulk nano structured metals and alloys, nanocomposites and carbon nanotubes.  understanding basic laws and phenomena in the area of Optoelectronics and Lasers theoretical and practical preparation of students to acquire and apply knowledge and skills in Optoelectronics and

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			To classify Real World IoT Design Constraints, Industrial Automation in IoT.
24	18MES401	Paper X : Advanced Programmable Logic Controller	Students will be able to describe typical components of a Programmable Logic Controller.
			Students will be able to use timer, counter, and other intermediate programming functions.
			Students will be able to design and program basic PLC circuits for entry-level PLC applications.
			Students will be able to explain and apply the concept of electrical ladder logic, its history, and its relationship to programmed PLC instruction.
			Students will be able to design and program a small, automated industrial production line.
			To familiarize the student in introducing and exploring MATLAB & LABVIEW softwares.
25	18MESE07	Elective III: MATLAB Programming	To enable the student on how to approach for solving Engineering problems using simulation tools.
			To prepare the students to use MATLAB/LABVIEW in their project works.
			To provide a foundation in use of this softwares for real time applications.
			Provide the various high speed digital access and broadband technologies
		High Performance Communication	Switching techniques used for communication
26	26 18MESE08 High Performance Communication Congestion control		Congestion control
		Performance issues and quality of service required for better performance of high speed networks.	
			Understand how networking research is done
			Analyze different wireless communication systems
			Exemplify different receiver and transmitter architectures
27	18MESE09	RF System Design	Calculate basic radio specifications in terms of, gain, noise, signal-to-noise ratio, power
			Describe analog and digital modulation techniques and modulation schemes
			Understand and describe mathematically the relationship between baseband signals and bandpass signals

## MBA

PROGRAMME OUTCOME (PO)			On successful completion of the programme the students will have,  The ability to apply and understand the business acumen gained in practice solves managerial sisues.  The ability to communicate and negotiate effectively and upgrade their professional and managerial shils 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 fulfilling business career pursue lifelong learning.  business management and entrepreneurship embedded with ethics and a sense of social commitment and to make them to strive towards personal victory and value creation to society.
	PROGRAMME SPECIFIC OUTCOME (PSO)		due importance for lateral thinking so that management graduates see things from a perspective which are not just simple but effective and will gain an understanding of the global arena and competitive environments which are & amp; logistics management and demonstrate leadership and team membership skills which are ardently required for effective implementation and coordination of organizational activities and communication skills to communicate
S.No	Course Code	Course Name	Course Outcome
1	16MBA101	BUSINESS ORGANISATION AND MANAGEMENT	Understanding the concept of business, forms of business  Knowing the concept of management, Evolution of management, functions of a manager.  Understanding the concept of planning, process of planning, forms of organisational structure.  Understanding staffing, recruitment and selection process, Knowing the leadership qualitites, application of case studies.  Know about controlling techniques, the concept of organisational change and development, application of case studies.
2	16MBA102	ORGANISATIONAL BEHAVIOUR	Understanding of dynamics of OB, Opportunities of OB  Know the concept of intelligence, awareness of personality types, application of psychometric tests.  Knowing the concept of perception, attitude formation and learning theories.  Understanding individual behavior, dynamics of groups and effective team building, conflicting situations, Ethical issues in organisational culture.  Awareness on Organisational change, organisational politics, coping with stress and the motivational theories.
			Understand the relative importance of Managerial Economics  Introduce the microeconomic concepts - demand, pricing, cost determination, entry into and exit from markets, price - output decisions.

3	16MBA103	MANAGERIAL ECONOMICS	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.
			Understand the concept of profits and analysis of profits.
			Know about Macro economic variables and its real time impact on economy and government policies.
			Apply the comprehensive treatment of accounting principles, techniques and practices
4	16MBA104	ACCOUNTING FOR MANAGERS	Infer the circumstances providing for increased exposure to final accounts and depreciation
			preventative internal control measures
			Develop Budget and analyse Cost variances.
			Basic concepts of Management Accounting & Interpret the financial statements and report the findings.
			Understand the basics of communication process
_	10.50.105	EVECTORIE COLO GRACO	Gain knowledge about the non-verbal communication techniques
5	16MBA105	EXECUTIVE COMMUNICATION	Understand the various types of business letters
			Develop job application letter, bio data, preparation for Interview
			Basic concepts of meetings, agenda preparation and communications in an organisation
			enable students will acquire the knowledge of Mathematics of finance and Mathematica concepts of Differentiation and integration
			Analyze real world scenarios and determine the appropriate type of analytical problem solving techniques to utilize
6	16MBAID1	QUANTITATIVE METHODS FOR MANAGEMENT	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 for Business analysis
			Develop the knowledge of statistical analysis for research in order to write the interpretation and solving the hypothesis
			Gain knowledge on using various tabs in MS-Word & improve business communication skills in writing emails, sending e-mails.
7	18MBAP01	COMPUTER APPLICATION FOR BUSINESS	Prepare them to develop creative and effective presentations
			Knowledge on database maintaining using Access.
			Improving their conceptual skills, understanding and application of tools and techniques of operations management in
			business practices in real time.
			Understanding and application of factors in the design of effective operating systems based on location and layout.
8	16MBA201	PRODUCTION AND OPERATIONS	Understand the concept of material management & its strategies
		MANAGEMENT	Apply Quality control Techniques to attain productivity optimization
			Understand the concepts of JIT, Kanban, ISO standards.
			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.
9	16MBA202	MARKETING MANAGEMENT	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 and rationale
			Understand the channel of distribution to reach the target audience. Recent Marketing terms.
			Educate on the process of handling disputes, laws pertaining to Employees welfare and employment in the Organization.
			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
10	16MBA203	FINANCIAL MANAGEMENT	Understand the outside influences of economic and political factors on various sources of funds with their costs
			Justify the contemporary financial management strategies which are preferred to specific projects
			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.
11	16MBA204	HUMAN RESOURCE MANAGEMENT	Apply Human Resource Planning, Recruitment and Selection and skills across various types of organizations.
			Know about the Interview process, Induction and Orientation, Training techniques.
			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

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			To formulate the hypothesis for business problems ,know the scaling techniques.
12	12 16MBA205	RESEARCH METHODS FOR MANAGEMENT	Understand the sampling techniques, preparation of questionnaire and coding techniques
			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
		A	Analyze real world problems and decision making for Transpotation Problems and Assignment Problems
13	3 16MBAID2	QUANTITATIVE TECHNIQUES	Gain knowldege 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 working knowledge in Microsoft excel
14	16MBAP02 EXCEL FOR MANAGERS	EXCEL FOR MANAGERS	Able to use in-built functions in Excel for simple decision making, perform investment analysis using Excel, validate data, use datatbase operations and present the processed information using charts.
•		ENCED TOX MENTOLING	Gain knowledge about basics of Tally
			Knowledge on working with Accounting problems(Balance Sheet, P&L Account, Trail Balance)in Tally
			Best knowledge about the environment that impact the business decision
			Awareness about important concept and terminology used in business
15	16MBA301	Business Environment and Ethics	Understand the value and Do's and Don'ts of Ethics in business environment
			Better understand the concepts that used in international perspective
			Undestand the role and fuctions of regulatory agencies
			understand the basics that pertained to business law
			Will equip the students in learning the concepts of contracts and law that pertained business
16	16MBA302	Legal aspects of Business	Better awareness about the law that pertained to consumer
			Understand the functionality of the business
			Understand various terminology and techniques that areused in business
			Understand the basics of advertisement
			Understand the basics of advertisement  Linderstand the Ad Copy elements. Adverting test measurements
17	16MBAEA1	Digital Advertising and Sales Promotion	Understand the Ad Copy elements, Adverting test measurements
17	16MBAEA1	Digital Advertising and Sales Promotion	Understand the Ad Copy elements, Adverting test measurements  Understand about the advertising media, reach and frequency
17	16MBAEA1	Digital Advertising and Sales Promotion	Understand the Ad Copy elements, Adverting test measurements  Understand about the advertising media, reach and frequency  understand the latest versions in advertising
17	16MBAEA1	Digital Advertising and Sales Promotion	Understand the Ad Copy elements, Adverting test measurements  Understand about the advertising media, reach and frequency understand the latest versions in advertising  To know the various sales promotion tools in marketing
17	16MBAEA1	Digital Advertising and Sales Promotion	Understand the Ad Copy elements, Adverting test measurements  Understand about the advertising media, reach and frequency understand the latest versions in advertising  To know the various sales promotion tools in marketing  An overview about Retail Industry
17	16MBAEA1	Digital Advertising and Sales Promotion  Retail Management	Understand the Ad Copy elements, Adverting test measurements Understand about the advertising media, reach and frequency understand the latest versions in advertising To know the various sales promotion tools in marketing An overview about Retail Industry Understand the evolution in retail industry
			Understand the Ad Copy elements, Adverting test measurements  Understand about the advertising media, reach and frequency understand the latest versions in advertising  To know the various sales promotion tools in marketing  An overview about Retail Industry  Understand the evolution in retail industry  An insights about setting of retail stores
			Understand the Ad Copy elements, Adverting test measurements Understand about the advertising media, reach and frequency understand the latest versions in advertising To know the various sales promotion tools in marketing An overview about Retail Industry Understand the evolution in retail industry An insights about setting of retail stores understand the concepts of pricing in retail industry
			Understand the Ad Copy elements, Adverting test measurements  Understand about the advertising media, reach and frequency  understand the latest versions in advertising  To know the various sales promotion tools in marketing  An overview about Retail Industry  Understand the evolution in retail industry  An insights about setting of retail stores  understand the concepts of pricing in retail industry  Understand the mean of communication and supply of goods in retailing
			Understand the Ad Copy elements, Adverting test measurements Understand about the advertising media, reach and frequency understand the latest versions in advertising To know the various sales promotion tools in marketing An overview about Retail Industry Understand the evolution in retail industry An insights about setting of retail stores understand the concepts of pricing in retail industry Understand the mean of communication and supply of goods in retailing Understand the principle of Ethics
			Understand the Ad Copy elements, Adverting test measurements  Understand about the advertising media, reach and frequency understand the latest versions in advertising  To know the various sales promotion tools in marketing  An overview about Retail Industry  Understand the evolution in retail industry  An insights about setting of retail stores understand the concepts of pricing in retail industry  Understand the mean of communication and supply of goods in retailing  Understand the principle of Ethics  Awareness about unethical behaviour in workplace
18	16MBAEA2	Retail Management	Understand the Ad Copy elements, Adverting test measurements  Understand about the advertising media, reach and frequency understand the latest versions in advertising  To know the various sales promotion tools in marketing  An overview about Retail Industry  Understand the evolution in retail industry  An insights about setting of retail stores understand the concepts of pricing in retail industry  Understand the mean of communication and supply of goods in retailing  Understand the principle of Ethics  Awareness about unethical behaviour in workplace understand the Ethics that pertained to top level managers
18	16MBAEA2	Retail Management	Understand the Ad Copy elements, Adverting test measurements Understand about the advertising media, reach and frequency understand the latest versions in advertising To know the various sales promotion tools in marketing An overview about Retail Industry Understand the evolution in retail industry An insights about setting of retail stores understand the concepts of pricing in retail industry Understand the mean of communication and supply of goods in retailing Understand the principle of Ethics Awareness about unethical behaviour in workplace understand the Ethics that pertained to top level managers Understand Team based Ethics
18	16MBAEA2	Retail Management	Understand the Ad Copy elements, Adverting test measurements Understand about the advertising media, reach and frequency understand the latest versions in advertising To know the various sales promotion tools in marketing An overview about Retail Industry Understand the evolution in retail industry An insights about setting of retail stores understand the concepts of pricing in retail industry Understand the mean of communication and supply of goods in retailing Understand the principle of Ethics Awareness about unethical behaviour in workplace understand the Ethics that pertained to top level managers Understand Team based Ethics  Awareness about the Ethics that pertained to information technology
18	16MBAEA2	Retail Management	Understand the Ad Copy elements, Adverting test measurements Understand about the advertising media, reach and frequency understand the latest versions in advertising To know the various sales promotion tools in marketing An overview about Retail Industry Understand the evolution in retail industry  An insights about setting of retail stores understand the concepts of pricing in retail industry Understand the mean of communication and supply of goods in retailing Understand the principle of Ethics  Awareness about unethical behaviour in workplace understand the Ethics that pertained to top level managers Understand Team based Ethics  Awareness about the Ethics that pertained to information technology Understand about industrial relation and trade unions
18	16MBAEA2	Retail Management	Understand the Ad Copy elements, Adverting test measurements Understand about the advertising media, reach and frequency understand the latest versions in advertising To know the various sales promotion tools in marketing An overview about Retail Industry Understand the evolution in retail industry An insights about setting of retail stores understand the concepts of pricing in retail industry Understand the mean of communication and supply of goods in retailing Understand the principle of Ethics Awareness about unethical behaviour in workplace understand the Ethics that pertained to top level managers Understand Team based Ethics Awareness about the Ethics that pertained to information technology Understand about industrial relation and trade unions Awareness about the problems of employee in industrial settings
18	16MBAEA2	Retail Management  Workplace Ethics	Understand the Ad Copy elements, Adverting test measurements  Understand about the advertising media, reach and frequency understand the latest versions in advertising  To know the various sales promotion tools in marketing  An overview about Retail Industry  Understand the evolution in retail industry  An insights about setting of retail stores understand the concepts of pricing in retail industry  Understand the mean of communication and supply of goods in retailing  Understand the principle of Ethics  Awareness about unethical behaviour in workplace understand the Ethics that pertained to top level managers  Understand Team based Ethics  Awareness about the Ethics that pertained to information technology  Understand about industrial relation and trade unions  Awareness about the problems of employee in industrial settings  Understand the basics of law that pertained to wages, bonus,pension & sexual harassment.
18	16MBAEA2	Retail Management  Workplace Ethics	Understand the Ad Copy elements, Adverting test measurements Understand about the advertising media, reach and frequency understand the latest versions in advertising To know the various sales promotion tools in marketing An overview about Retail Industry Understand the evolution in retail industry An insights about setting of retail stores understand the concepts of pricing in retail industry Understand the mean of communication and supply of goods in retailing Understand the principle of Ethics Awareness about unethical behaviour in workplace understand the Ethics that pertained to top level managers Understand Team based Ethics Awareness about the Ethics that pertained to information technology Understand about industrial relation and trade unions Awareness about the problems of employee in industrial settings Understand the basics of law that pertained to wages, bonus,pension & sexual harassment. Understand the various retirement benefits,maternity benefit, ESI for employee
18	16MBAEA2	Retail Management  Workplace Ethics	Understand the Ad Copy elements, Adverting test measurements  Understand about the advertising media, reach and frequency understand the latest versions in advertising  To know the various sales promotion tools in marketing  An overview about Retail Industry  Understand the evolution in retail industry  An insights about setting of retail stores understand the concepts of pricing in retail industry  Understand the mean of communication and supply of goods in retailing  Understand the principle of Ethics  Awareness about unethical behaviour in workplace understand the Ethics that pertained to top level managers  Understand Team based Ethics  Awareness about the Ethics that pertained to information technology  Understand about industrial relation and trade unions  Awareness about the problems of employee in industrial settings  Understand the basics of law that pertained to wages, bonus, pension & sexual harassment.  Understand the various retirement benefits, maternity benefit, ESI for employee  Understand the rule that pertained to special service industry establishment
18	16MBAEA2	Retail Management  Workplace Ethics	Understand the Ad Copy elements, Adverting test measurements Understand about the advertising media, reach and frequency understand the latest versions in advertising To know the various sales promotion tools in marketing An overview about Retail Industry Understand the evolution in retail industry An insights about setting of retail stores understand the concepts of pricing in retail industry Understand the mean of communication and supply of goods in retailing Understand the principle of Ethics Awareness about unethical behaviour in workplace understand the Ethics that pertained to top level managers Understand Team based Ethics Awareness about the Ethics that pertained to information technology Understand about industrial relation and trade unions Awareness about the problems of employee in industrial settings Understand the basics of law that pertained to wages, bonus,pension & sexual harassment. Understand the various retirement benefits,maternity benefit, ESI for employee

21	16MBAEC1	Security Analysis and Portfolio Management	This unit will help to know the factors influencing Fundamental Analysis and Applied Valuation Techniques
			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 uponrisk and return criteria
			Awareness about schemes that available for retriving sick industry  (NBFCs),Financial Inclusion, Micro finance and its implication on the economy. This course will enable the students to
			manage and avail these services in their professional and personal life.
			Compare Hire-Purchasing and Leasing concepts.
22	16MBAEC2	Advanced Financial Service	This unit will help to know about the Process of Mutual Funds and RBI Guidelines.
			This coursewill 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
			To understand the suppply chain management
			To get depth knowledge about strategic warehouseing
23	16MBAED1	Supply Chain and Logistics Management	To know the work of logistical operations
			To know the role of transport in logistics
			To create awareness of ERP system design
			Help to know the preliminary process for export business.
			Help to know the Generation of Foreign Enquiries.
24	16MBAED2	Export Trade and Documentation	This unit focussed Export finance and Forex.
			Help to know the pre shipment documentation & Insuring Goods against marine risk.
			Help to know the EXIM policy and trade zones.
			Understand the basic concepts of Entreprenuership
			Understand the scope of entreprenuership
25	16MBA401	Enterprenuership and Project Managment	understand the project selection procedure
			Awareness about the financial institution in rendering financialservices
			Awareness about schemes that available for retriving sick industry
			The students are able to learn the fundamentals of strategic management using the case method.
			Analyse the Environmental factors in strategic management using in case method.
26	16MBA402	Strategic Management	Understand the corporate strategies and the frame work of strategic management.
			Understand the organizational strategies and how to implement the strategy.
			The students are able to understand and manage the technology and innovation in strategic management.
			Understanding the concepts of Agricultural marketing
			Knowing the storage, warehousing and financing facilities in Agricultural Marketing
27	16MBAEA3	Agricultural and Rural Marketing	Understanding the concept of rural marketing, marketing mix and rural consumer behaviour
			Get to know about the products classification and pricing strategies of rural market
			Knowing the rural logistics and rural retailing  Get to know about the concept of Social Media communication mix and marketing
28	16MBAEA4	Social Media and Search Engine Marketing	Understanding the concept of Segmenting, Search Engine Optimisation
			Get to know about Web Analytics, Creation of URL
			Understand about Search Engine Marketing & its benefits
			Get knowledge about Ad Groups, Biding tools.
			Understand about the self concepts & Strategies
29	16MBAEB3	Personal Growth and Interpersonal Effectiveness	Know about the concepts of communication and non-verbal communication
		Personal Growth and Interpersonal Effectiveness	Understand the assertive training tools
			Understanding the concepts & Application of Transactional Analysis tools and techniques
			Get to know about counselling and its methods
			Understand about the HRA concepts

30	18MBAEB4	Human Resource Accounting	Know about the human resource planning and capital investment  Understand the investment approach, human variables and cost concepts  Understanding the concepts of HRA Implementation & Appraisal procedures  Get to know about HRA Software, P&L Account concepts
31	16MBAEC3	Risk Management and Insurance	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  This unit focused Health Insurance, Annuities and Employees benefit.  Recent scenario in Life and General insurance industry in India, IRDA.
32	16MBAEC4	Principles and Practices of Banking.	Help to understand Indian Banking system and structure in India.  This unit focussed Banker and customer relationship,Obligation.  Help to know the Banking Technology as MICR,Cheque Transaction,ECS, EFT, NEFT & RTGS  How Asset Liability Management(ALM) in banks are working.  International banking Techniques in Facilitie for Exporters and Importer
33	16MBAED3	Domestic Logistics	Help to know the complete process in Vehicle Selection, Types and Characteristics and Acquisition.  Reasons for Road Freight Transport Vehicle Costing , Zero-Based Budget helps us to control the cost reduction.  Procedures for Operator Licensing, Driver Licensing , Road Transport Directive, Tachographs and Vehicle Dimensions.  This unit focussed Information System Applications as GPS, RFID  Invoicing &Information Flow in international level and Coordination with Terminals.
34	18MBAED4	International Logisitics Management	Understand the concept of marketing logisitics, international supply chain management  Helps to know about the transportation and containerization  Understand the shipping procedures and documentation  Get to know about the air transport procedures  Understand about inventory control and management

# M.Sc (Software Systems)

	PROGI	RAMME OUTCOME (PO):	On completion of M.Sc (SS) degree, the graduates will be able to:  Apply the knowledge of mathematics and computing fundamentals to various real life applications for any given requirement  Design and develop applications to analyze and solve all computer science related problems  Design applications for any desired needs with appropriate considerations for any specific need on societal and environmental aspects  Analyze and review literatures to invoke the research skills to design, interpret and make inferences from the resulting data  Integrate and apply efficiently the contemporary IT tools to all computer applications
	PROGRAMME SPECIFIC OUTCOME (PSO):		On completion of M.Sc (SS) degree, the graduates will be able to:  Involve in perennial learning for a continued career development and progress as a computer professional.  Function effectively both as a team leader and team member on multi disciplinary projects to demonstrate computing and management skills.  Utilize the computing knowledge efficiently in projects with concern for societal, environmental, and cultural aspects
S.No	Course Code	Course Name	Course Outcome
1	15MSS101	Fundamentals of Office Automation	Understand about the usage of input and ouput devices  Clear idea about multimedia aspects  Know the difference about memory ram & rom  Understand about the structure of network organization  Knew about the aspects of basic internet activities
			Able to know the cobol keywords  Able to apply the arithmetic operaion in cobol program

2	15MSS102	COBOL Programming	
2	13M33102	COBOL Flogramming	Acquired knowledge in file control entries
			Got an awareness about subroutines in cobol
			Able to do the cobol program with acquired knowledge
			Knowledge to create a table in word
			Able to use the formatting
3	15MSSP01		Design a pivot table for a sales report.
			Can perfrom simple and compund interest program
			Can perform organization chart work.
			Able to apply the arithmetic operation in cobol program
			Having an enough knowledge to create a sum of digit program
4	15MSSP02	15MSSP02 COBOL Programming	Creating aprogram for student data
		Acquired knowledge in file control program	
		Having an enough knowledge to create an inventory control program	
			Able to basic pay calculation program
			Acquired knowledge in decision statements
			Acquired knowledge in loop control statements
5	15MSS201	Programming in C	Understand the concept of string and its function
			Adequate knowledge in function and recursion
			Applying the knowlede to do file read and write
			Know the basic concept of data structure
			Able to explain list and queues
6	15MSS202	Data Structures	Understand the trees work in data structure
			Understand the searching work in data structure
			Able to do flow problem
			Able to do flow problem  Able to create a program using various operators
			Able to create a program using various operators
7	15MSSP03	Practical 3: C	Able to create a program using various operators  Adequate knowledge to apply switch statements
7	15MSSP03	Practical 3: C	Able to create a program using various operators  Adequate knowledge to apply switch statements  Adequate knowledge to use string functions
7	15MSSP03	Practical 3: C	Able to create a program using various operators  Adequate knowledge to apply switch statements  Adequate knowledge to use string functions  Strong in pointers work
7	15MSSP03	Practical 3: C	Able to create a program using various operators  Adequate knowledge to apply switch statements  Adequate knowledge to use string functions  Strong in pointers work  Understand the working functions of file program
7	15MSSP03	Practical 3: C	Able to create a program using various operators  Adequate knowledge to apply switch statements  Adequate knowledge to use string functions  Strong in pointers work  Understand the working functions of file program  Adequate knowledge to create aprogram using arrays
7	15MSSP03	Practical 3: C	Able to create a program using various operators  Adequate knowledge to apply switch statements  Adequate knowledge to use string functions  Strong in pointers work  Understand the working functions of file program  Adequate knowledge to create aprogram using arrays  Adequate knowledge to create aprogram using queues
7	15MSSP03	Practical 3: C  Practical 4: Data Structure	Able to create a program using various operators  Adequate knowledge to apply switch statements  Adequate knowledge to use string functions  Strong in pointers work  Understand the working functions of file program  Adequate knowledge to create aprogram using arrays  Adequate knowledge to create aprogram using queues  Able to create a program using list
			Able to create a program using various operators  Adequate knowledge to apply switch statements  Adequate knowledge to use string functions  Strong in pointers work  Understand the working functions of file program  Adequate knowledge to create aprogram using arrays  Adequate knowledge to create aprogram using queues  Able to create a program using list  Able to create a program using search option
			Able to create a program using various operators  Adequate knowledge to apply switch statements  Adequate knowledge to use string functions  Strong in pointers work  Understand the working functions of file program  Adequate knowledge to create aprogram using arrays  Adequate knowledge to create aprogram using queues  Able to create a program using list  Able to create a program using search option  Able to perform sorting operation
			Able to create a program using various operators  Adequate knowledge to apply switch statements  Adequate knowledge to use string functions  Strong in pointers work  Understand the working functions of file program  Adequate knowledge to create aprogram using arrays  Adequate knowledge to create aprogram using queues  Able to create a program using list  Able to create a program using search option  Able to perform sorting operation  Adequate knowledge to perform datastructure opration using c
			Able to create a program using various operators  Adequate knowledge to apply switch statements  Adequate knowledge to use string functions  Strong in pointers work  Understand the working functions of file program  Adequate knowledge to create aprogram using arrays  Adequate knowledge to create aprogram using queues  Able to create a program using list  Able to create a program using search option  Able to perform sorting operation  Adequate knowledge to perform datastructure opration using c
	15MSSP04	Practical 4 : Data Structure	Able to create a program using various operators  Adequate knowledge to apply switch statements  Adequate knowledge to use string functions  Strong in pointers work  Understand the working functions of file program  Adequate knowledge to create aprogram using arrays  Adequate knowledge to create aprogram using queues  Able to create a program using list  Able to create a program using search option  Able to perform sorting operation  Adequate knowledge to perform datastructure opration using c  Able to differentiate c and c++  Understand the concept of classes and objects
8			Able to create a program using various operators  Adequate knowledge to use string functions  Strong in pointers work  Understand the working functions of file program  Adequate knowledge to create aprogram using arrays  Adequate knowledge to create aprogram using queues  Able to create a program using list  Able to create a program using search option  Able to perform sorting operation  Adequate knowledge to perform datastructure opration using c  Able to differentiate c and c++  Understand the concept of classes and objects  Identify the work of inheritance
8	15MSSP04	Practical 4 : Data Structure	Able to create a program using various operators  Adequate knowledge to apply switch statements  Adequate knowledge to use string functions  Strong in pointers work  Understand the working functions of file program  Adequate knowledge to create aprogram using arrays  Adequate knowledge to create aprogram using queues  Able to create a program using list  Able to create a program using search option  Able to perform sorting operation  Adequate knowledge to perform datastructure opration using c  Able to differentiate c and c++  Understand the concept of classes and objects  Idenfify the work of inheritance  Adequate knowledge in virtual functions
8	15MSSP04	Practical 4 : Data Structure	Able to create a program using various operators  Adequate knowledge to apply switch statements  Adequate knowledge to use string functions  Strong in pointers work  Understand the working functions of file program  Adequate knowledge to create aprogram using arrays  Adequate knowledge to create aprogram using queues  Able to create a program using list  Able to create a program using search option  Able to perform sorting operation  Adequate knowledge to perform datastructure opration using c  Able to differentiate c and c++  Understand the concept of classes and objects  Idenfify the work of inheritance  Adequate knowledge in virtual functions  Adequate knowledge in exception handling
8	15MSSP04	Practical 4 : Data Structure	Able to create a program using various operators  Adequate knowledge to use string functions  Strong in pointers work  Understand the working functions of file program  Adequate knowledge to create aprogram using arrays  Adequate knowledge to create aprogram using queues  Able to create a program using list  Able to create a program using search option  Able to perform sorting operation  Adequate knowledge to perform datastructure opration using c  Able to differentiate c and c++  Understand the concept of classes and objects  Idenfify the work of inheritance  Adequate knowledge in virtual functions  Adequate knowledge in exception handling  Know about pl/sql
9	15MSSP04	Practical 4 : Data Structure  Object Oriented Programming With C++	Able to create a program using various operators  Adequate knowledge to apply switch statements  Adequate knowledge to use string functions  Strong in pointers work  Understand the working functions of file program  Adequate knowledge to create aprogram using arrays  Adequate knowledge to create aprogram using queues  Able to create a program using list  Able to create a program using search option  Able to perform sorting operation  Adequate knowledge to perform datastructure opration using c  Able to differentiate c and c++  Understand the concept of classes and objects  Idenfify the work of inheritance  Adequate knowledge in virtual functions  Adequate knowledge in exception handling
8	15MSSP04	Practical 4 : Data Structure	Able to create a program using various operators  Adequate knowledge to use string functions  Strong in pointers work  Understand the working functions of file program  Adequate knowledge to create aprogram using arrays  Adequate knowledge to create aprogram using queues  Able to create a program using list  Able to create a program using search option  Able to perform sorting operation  Adequate knowledge to perform datastructure opration using c  Able to differentiate c and c++  Understand the concept of classes and objects  Idenfify the work of inheritance  Adequate knowledge in virtual functions  Adequate knowledge in exception handling  Know about pl/sql
9	15MSSP04	Practical 4 : Data Structure  Object Oriented Programming With C++	Able to create a program using various operators  Adequate knowledge to use string functions  Strong in pointers work  Understand the working functions of file program  Adequate knowledge to create aprogram using arrays  Adequate knowledge to create aprogram using queues  Able to create a program using list  Able to create a program using search option  Able to perform sorting operation  Adequate knowledge to perform datastructure opration using c  Able to differentiate c and c++  Understand the concept of classes and objects  Idenfify the work of inheritance  Adequate knowledge in virtual functions  Adequate knowledge in exception handling  Know about pl/sql  Understand about built in sql functions

			Able to create a member function
			Perform operator overloading function
11		D S IV C D	Adequate knowledge to create a program using friend function
11	15MSSP05	Practical V- C++ Programming	Adequate knowledge to create a program using inheritance
			Able to create a file operation program
			Able to create a program using virtual function
			Able to crate a simple vb program
			Performing an calculator program
	15MSSP06 Practical VI:Relational Database Management Systems	Able to crate a simple gaming using vb program	
12			
			Can create a notpad application using vb
			Can create a rdbms table
			Can able to retrieve the value using quries
			Having an idea to differtiate hardware and software features
13	15MSS401	Software Engineering	Clear knowledge in the concept of software engineering task
	13.1135 101	Software Engineering	Clear knowledge in the concept of software designing
			Know the concept of golden rules
			Understand the importance of testing
			Know the imprtance of analysis
			Clear knowledge in the concept of software designing
14	15MSS402	Analysis and Design of Information System	Know the imprtance of information manage ment
			Identify the structure of the design
			Enough knowledge to make the design through design
			Got a basic idea about the webpublishing foundation
			Able to differentiate client and server side scripting
15	15MSS502	Web Programming	Know about plug ins in html
			Got sn awareness in html,sctml
			Understand the evolution of xml
			Able to create a web page by using basic aspects
			Adequate knowledge to perform java script operations.
16	15MSSP09	Practical VII: Web Programming	Can able to perform xml application
			Able to create a web page by using form validations
			Strong knowledge in the concept of string function
			Understand the basics of graphic system
			Able ti explain the two dimensional transformation
17	15MSS501	Computer Graphics	Adequate knowledge in 3d concepts
			Having an idea to implement 3d algorithm
			Can apply the model and application concept while performing programming.
			Know about object oriented methodology
			Understand about java basics
18	15MSS403	JAVA Programming	Clear idea in exception handling
			Clear idea in network programming in java
			Understand about the applets programming
			Understand about tep/ip models
19	15MSS503	Data Communication and Networking	Know about the working procedure of data link layer
I I	ı l	l	Know about the working procedure of netwok layer

1 1	1		
			Clear knowledge in transport layer
			Adequate knowledge in application layer
			Can do simple transformations
			Can perform line drawing algorithms
20		Provided O. Communication	Enough knowledge to perform windowing and clipping
20	15MSSP08	Practical 8:Computer Graphics	Able to create polygon clipping
			Implementation of an analog clock can be done
			Successfully simple animation can be done
			Implementaion of program can be done by using class & Objects
			Able to string manipulations
21	15MSSP07	Practical 9:JAVA Programming	Creating a program using inheritance
			Creating a program using Packages
			Apply the knowledge to create a program using multithreading concepts
			Understand the concept of compiler and its type
			Know the role of the parser
22	15MSSE01	Principles of Compiler Design	Clear idea in intermediate languages
			Understand the concept of runtime
			Clear idea in optimization
			Acquired the basic knowledgein Java and J2EE platform
			Know about ORB protocol
23	15MSSE02	J2EE	Know about servlet programming
			Clear in java transaction
			Adequate knowledge in commands, items and event
			Clear in xml technology family
			Know the architecting webservices
24	4 15MSSE03	Web Services	Understand the concept of webservice building blocks
			Know about E business
			Understand about content management
			Understand the basics of client and server
			Understand the basics of hardware and software
25	15MSS601	Client server Computing	Know about server requirementa
			Got an idea to develop the application using tools
			Clear about production requirement concepts
			Got a basic idea about the webpublishing foundation
			Able to differentiate client and server side scripting
26	15MSS602	Web Designing	Know about plug ins in HTML
			Got sn awareness in HTML,SCTML
			Understand the evolution of XML
			Adequate knowledge in form controls
			Clear knowledge in functions
27	15MSS603	Vb.net	Understand the concept of structured programming
			Able to apply built in function
			Got an awareness of working with files
			Know about the types of projects
			Able to do activity planning
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20	15MSS604		
28	15MSS604	Software project management	Understand about the risk management
			Understand about the configuration management
			Adequate knowledge to do casestudy
			Able to create a web page by using basic aspects
29			Adequate knowledge to perform java script operations.
	15MSSP10	Practical 10:Web Designing	Can able to perform XML application
			Able to create a web page by using form validations
			Strong knowledge in the concept of string function
			Professional skills gained to implement conditional statements
			Knowledge acquired to apply looping statements
30	15MSSP11	Practical 11:Vb.net	Professional skills gained to implement Functions
			Knowledge acquired to create a program using arrays
			Able to apply the controls in program
			Know about basics and history of information sysyem security
			Understand the importance of security considerations
31	15MSSE04	Elective-II: Information System Security	Know about logical access control
			Understand about the firewalls
			Strong knowledge in privacy issues of smart card applications  Vegeta shout the basics of distributed community.
			Know about the basics of distributed computing
32	15MSSE05	Distributed Computing	Clear idea about model of a computation
	32 ISMSSE03	Similated Companies	Clear in soket api
			Understand the concept of group communication
			Know the functionalities of the distributed systems
			Clear idea in marketing and management
33	15MSSE06	Management Information System.	Able to analyze the business data management
			Understand the functioning of business organization
			Clear knowledge in managing strategies
			Clear knowledge in managing strategies  Clear knowledge in laws regarding business processs
24	15Mggpp I	Delay of West Very	Clear knowledge in laws regarding business processs
34	15MSSPR1	Project and Viva-Voce	Clear knowledge in laws regarding business processs  Adequate knowledge to create the software applications
34	15MSSPR1	Project and Viva-Voce	Clear knowledge in laws regarding business processs  Adequate knowledge to create the software applications  Strong knowledge in programming concept
34	15MSSPR1	Project and Viva-Voce	Clear knowledge in laws regarding business processs  Adequate knowledge to create the software applications  Strong knowledge in programming concept  Strong knowledge in database cration
34	15MSSPR1	Project and Viva-Voce	Clear knowledge in laws regarding business processs  Adequate knowledge to create the software applications  Strong knowledge in programming concept  Strong knowledge in database cration  Adequate knowledge to do forms creation and testing
		Project and Viva-Voce	Clear knowledge in laws regarding business processs  Adequate knowledge to create the software applications  Strong knowledge in programming concept  Strong knowledge in database cration  Adequate knowledge to do forms creation and testing  Adequate knowledge to explain their project with external and having boldness to survey in the it world
34	15MSSPR1	Project and Viva-Voce  Middleware Technologies	Clear knowledge in laws regarding business processs  Adequate knowledge to create the software applications  Strong knowledge in programming concept  Strong knowledge in database cration  Adequate knowledge to do forms creation and testing  Adequate knowledge to explain their project with external and having boldness to survey in the it world  Know the basics of java 2 enterprise edition overview
			Clear knowledge in laws regarding business processs  Adequate knowledge to create the software applications  Strong knowledge in programming concept  Strong knowledge in database cration  Adequate knowledge to do forms creation and testing  Adequate knowledge to explain their project with external and having boldness to survey in the it world  Know the basics of java 2 enterprise edition overview  Understand the concept of java servlet
			Clear knowledge in laws regarding business processs  Adequate knowledge to create the software applications  Strong knowledge in programming concept  Strong knowledge in database cration  Adequate knowledge to do forms creation and testing  Adequate knowledge to explain their project with external and having boldness to survey in the it world  Know the basics of java 2 enterprise edition overview  Understand the concept of java servlet  Know about ejb
			Clear knowledge in laws regarding business processs  Adequate knowledge to create the software applications  Strong knowledge in programming concept  Strong knowledge in database cration  Adequate knowledge to do forms creation and testing  Adequate knowledge to explain their project with external and having boldness to survey in the it world  Know the basics of java 2 enterprise edition overview  Understand the concept of java servlet  Know about ejb  Clear in the concept of arichitecting webservices
			Clear knowledge in laws regarding business processs  Adequate knowledge to create the software applications  Strong knowledge in programming concept  Strong knowledge in database cration  Adequate knowledge to do forms creation and testing  Adequate knowledge to explain their project with external and having boldness to survey in the it world  Know the basics of java 2 enterprise edition overview  Understand the concept of java servlet  Know about ejb  Clear in the concept of arichitecting webservices  Know about structs
			Clear knowledge in laws regarding business processs  Adequate knowledge to create the software applications  Strong knowledge in programming concept  Strong knowledge in database cration  Adequate knowledge to do forms creation and testing  Adequate knowledge to explain their project with external and having boldness to survey in the it world  Know the basics of java 2 enterprise edition overview  Understand the concept of java servlet  Know about ejb  Clear in the concept of arichitecting webservices  Know about structs  Gained an idea about basics of programming
35	15MSS801	Middleware Technologies	Clear knowledge in laws regarding business processs  Adequate knowledge to create the software applications  Strong knowledge in programming concept  Strong knowledge in database cration  Adequate knowledge to do forms creation and testing  Adequate knowledge to explain their project with external and having boldness to survey in the it world  Know the basics of java 2 enterprise edition overview  Understand the concept of java servlet  Know about ejb  Clear in the concept of arichitecting webservices  Know about structs  Gained an idea about basics of programming  Know the data types in programming
35	15MSS801	Middleware Technologies	Clear knowledge in laws regarding business processs  Adequate knowledge to create the software applications  Strong knowledge in programming concept  Strong knowledge in database cration  Adequate knowledge to do forms creation and testing  Adequate knowledge to explain their project with external and having boldness to survey in the it world  Know the basics of java 2 enterprise edition overview  Understand the concept of java servlet  Know about ejb  Clear in the concept of arichitecting webservices  Know about structs  Gained an idea about basics of programming  Know the data types in programming  Know the data types in programming with current programming
35	15MSS801	Middleware Technologies	Clear knowledge in laws regarding business processs  Adequate knowledge to create the software applications  Strong knowledge in programming concept  Strong knowledge in database cration  Adequate knowledge to do forms creation and testing  Adequate knowledge to explain their project with external and having boldness to survey in the it world  Know the basics of java 2 enterprise edition overview  Understand the concept of java servlet  Know about ejb  Clear in the concept of arichitecting webservices  Know about structs  Gained an idea about basics of programming  Know the data types in programming  Able to do the craetion of basic coding
35	15MSS801	Middleware Technologies	Clear knowledge in laws regarding business processs  Adequate knowledge to create the software applications  Strong knowledge in programming concept  Strong knowledge in database cration  Adequate knowledge to do forms creation and testing  Adequate knowledge to explain their project with external and having boldness to survey in the it world  Know the basics of java 2 enterprise edition overview  Understand the concept of java servlet  Know about ejb  Clear in the concept of arichitecting webservices  Know about structs  Gained an idea about basics of programming  Know the data types in programming  Able to differentiate other programming with current programming  Able to do the craetion of basic coding  Adequate knowledge to create a simple application

15MSS803   Object Oriented Analysis and Design Using UML   Know the imprtunce of information manage ment   Identify the structure of theum!   Identify the structure of the under the structure of the under the structure of theum!   Identify the structure of the under the structure of the unde	
Enough knowledge to make the design through design  Understand the rise of mobile data  Know about wireless markup language  Clear knowledge in using variables  Having an idea to design a user interface  Know about wireless technology applications  Creating aprogram to get user name and password  Adequate knowledge to grate a program using jsp tags  Adequate knowledge to implement session bean  Adequate knowledge to implement entity bean  Adequate knowledge to implement message driven bean  Professional skills gained to implement conditional statements  Knowledge acquired to apply looping statements  Professional skills gained to implement functions  Knowledge acquired to create a program using arrays  Able to apply the controls in program  Know the basic datamining task  Understand abou kdd process	
Understand the rise of mobile data Know about wireless markup language  Clear knowledge in using variables Having an idea to design a user interface Know about wireless technology applications  Creating aprogram to get user name and password Adequate knowledge to grate a program using jsp tags  Adequate knowledge to implement session bean Adequate knowledge to implement entity bean Adequate knowledge to implement message driven bean  Professional skills gained to implement conditional statements Knowledge acquired to apply looping statements  Knowledge acquired to implement functions Knowledge acquired to create a program using arrays Able to apply the controls in program Know the basic dataminig task Understand abou kdd process	
Know about wireless markup language	
15MSSP12 Practical 12:Middleware Technologies  Adequate knowledge to implement message driven bean Adequate knowledge to implement message driven bean Adequate knowledge to implement conditional statements  Knowledge acquired to apply looping statements  Knowledge acquired to create a program using arrays Able to apply the controls in program  Know the basic dataminig task Understand abou kdd process	
Clear knowledge in using variables Having an idea to design a user interface Know about wireless technology applications  Creating aprogram to get user name and password Adequate knowledge to grate a program using jsp tags  Adequate knowledge to implement session bean Adequate knowledge to implement entity bean Adequate knowledge to implement entity bean Adequate knowledge to implement entity bean Adequate knowledge to implement conditional statements  Knowledge acquired to apply looping statements  Knowledge acquired to apply looping statements  Professional skills gained to implement functions  Knowledge acquired to create a program using arrays  Able to apply the controls in program  Know the basic dataminig task  Understand abou kdd process	
Know about wireless technology applications  Creating aprogram to get user name and password  Adequate knowledge to grate a program using jsp tags  Adequate knowledge to implement session bean  Adequate knowledge to implement entity bean  Adequate knowledge to implement message driven bean  Professional skills gained to implement conditional statements  Knowledge acquired to apply looping statements  Frofessional skills gained to implement functions  Knowledge acquired to create a program using arrays  Able to apply the controls in program  Know the basic dataminig task  Understand abou kdd process	
29 15MSSP12 Practical 12:Middleware Technologies Adequate knowledge to grate a program using jsp tags Adequate knowledge to implement session bean Adequate knowledge to implement entity bean Adequate knowledge to implement message driven bean Professional skills gained to implement conditional statements Knowledge acquired to apply looping statements Knowledge acquired to implement functions Knowledge acquired to create a program using arrays Able to apply the controls in program Know the basic dataminig task Understand abou kdd process	
Adequate knowledge to grate a program using jsp tags  Adequate knowledge to implement session bean  Adequate knowledge to implement entity bean  Adequate knowledge to implement message driven bean  Professional skills gained to implement conditional statements  Knowledge acquired to apply looping statements  Professional skills gained to implement functions  Knowledge acquired to implement functions  Knowledge acquired to reate a program using arrays  Able to apply the controls in program  Know the basic dataminig task  Understand abou kdd process	
Adequate knowledge to implement session bean  Adequate knowledge to implement message driven bean  Adequate knowledge to implement message driven bean  Professional skills gained to implement conditional statements  Knowledge acquired to apply looping statements  Professional skills gained to implement functions  Knowledge acquired to apply looping statements  Knowledge acquired to apply looping statements  Able to apply the controls in program  Know the basic datamining task  Understand abou kdd process	
Adequate knowledge to implement session bean  Adequate knowledge to implement message driven bean  Adequate knowledge to implement message driven bean  Professional skills gained to implement conditional statements  Knowledge acquired to apply looping statements  Professional skills gained to implement functions  Knowledge acquired to create a program using arrays  Able to apply the controls in program  Know the basic dataminig task  Understand abou kdd process	
Adequate knowledge to implement message driven bean  Professional skills gained to implement conditional statements  Knowledge acquired to apply looping statements  Professional skills gained to implement functions  Knowledge acquired to create a program using arrays  Able to apply the controls in program  Know the basic dataminig task  Understand abou kdd process	
Professional skills gained to implement conditional statements  Knowledge acquired to apply looping statements  Professional skills gained to implement functions  Knowledge acquired to apply looping statements  Professional skills gained to implement functions  Knowledge acquired to create a program using arrays  Able to apply the controls in program  Know the basic dataminig task  Understand abou kdd process	
Knowledge acquired to apply looping statements  Professional skills gained to implement functions  Knowledge acquired to create a program using arrays  Able to apply the controls in program  Know the basic dataminig task  Understand abou kdd process	
40 15MSSP13 Practical 13:ASP.NET Professional skills gained to implement functions  Knowledge acquired to create a program using arrays  Able to apply the controls in program  Know the basic dataminig task  Understand abou kdd process	
Professional skills gained to implement functions  Knowledge acquired to create a program using arrays  Able to apply the controls in program  Know the basic dataminig task  Understand abou kdd process  41 15MSSE07 Elective - III Data Minine And Data warehousine/	
Able to apply the controls in program  Know the basic dataminig task  Understand abou kdd process  41 15MSSE07 Elective - III Data Mining And Data warehousing/	
Able to apply the controls in program  Know the basic dataminig task  Understand abou kdd process  41 15MSSE07 Elective - III Data Mining And Data warehousing/	
Know the basic dataminig task Understand abou kdd process  41 15MSSE07 Elective - III Data Mining And Data warehousing/	
Understand abou kdd process  41 15MSSE07 Elective - III Data Minine And Data warehousine/	
41 15MSSE07 Elective - III Data Mining And Data warehousing/	
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Advance benefit de la completa del completa de la completa de la completa del completa de la completa del la completa del la completa de la c	
Adequate knowlwdge in neural decision tree algorithm	
Strong idea in genetic algorithm work process	
Know about early grid activities	
Clear in grid computing anatomy  15MSSE08 Grid computing	
Adequate knowledge in ogsa	
Know about the technical details of ogsi	
Know about the golbus gt3 tool kit	
Know the basics of ai problems	
Understand the concept of heuristic search technique  43 15MSSE09 Artificial intelligence and Expert systems	
Adequate knowledge about representation and mapping  Adequate knowledge about representation and mapping	
Having an idea to apply and using predicate logic	
Clear idea in expert system	
Know the software testing fundamentals	
Know the basics of software testability	
44 15MSS901 Software Testing Clear in blackbox testing concept	
Adequate knowledge in software testing strategies	
Able to identify software fault tolerances	
Clear knowledge in white box testing	
Clear knowledge in black box testing	
45 15MSS902 Software Quality Assurance Acquired knowledge to perform performance testing	
Know the measures of quality assurance	
Know to handling the packaging and delivery	
Know the basics of php	
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46	15MSS903	PHP Programming	
			Adequate knowledge to use arrays and functions
			Understand about session and cookies
			Understand the steps to create basic applications
			Know the basic dataminig task
47	15MSS904	Data Mining and Warehousing	Understand abou kld process
			Adequate knowlwdge in neural network algorithm
			Adequate knowlwdge in neural decision tree algorithm
			Strong idea in genetic algorithm work process
			Having an adequate knowledge to create gui check point for multiple windows
48	15MSSP14	Practical 14:Software Testing Tools	Adequate knowledge to perform loop testing
			Adequate knowledge to perform stress testing
			Acquired the professional skills to do unit testing
			Acquired the professional skills to do system testing
			Can create a simple program
49	15MSSP15	Practical 15:PHP Programming	Able to crate a program fo random number
49	131/133113	Fractical 13.FHF Frogramming	Can create aprogram to show the date and time
			Can able to use the basic concept in website designing
			Having a adequate knowledge to create a website
			Know about the characteristics of computer intruction
50	15MSSE10	Floring By Compiler in Computing	Clear in the concept of program security
50	15MSSE10	Elective -IV Security in Computing	Understand about the designing of trusted operating systems
			Clear in database security
			Understand about security in networks
			Know the basics of cloud computing
			Clear in the concept types of clients
51	15MSSE11	Cloud computing	Know the working procedure of cloud in several organization
			Know the function and limitation of cloud work
			Understand the concept of cloud environment steps
			Clear in fundamentals of neural networks
			Understand the concept of back propagation networks
52	15MSSE12	Neural Networks and fuzzy logic	Know about adaptive reason theory
			Knowledge in fuzzy set theory
			Adequate knowledge in crisp logic
			Adequate knowledge to create the software applications
			Strong knowledge in programming concept
53	15MSSPR2	Project and Viva-Voce	Strong knowledge in database cration
			Adequate knowledge to do forms creation and testing
			Adequate knowledge to explain their project with external and having boldness to survey in the it world

### Master of Computer Application (MCA)

	On completion of MCA degree, the graduates will be able to:  Apply the knowledge of mathematics and computing fundamentals to various real life applications for any given requirement
PROGRAMME OUTCOME (PO):	Design and develop applications to analyze and solve all computer science related problems  Design applications for any desired needs with appropriate considerations for any specific need on societal and environmental aspects

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			Analyze and review literatures to invoke the research skills to design, interpret and make inferences from the resulting data
			Integrate and apply efficiently the contemporary IT tools to all computer applications
			On completion of MCA degree, the graduates will be able to:
	PROGRAMM	IE SPECIFIC OUTCOME (PSO):	Solve and work with a professional context pertaining to ethics, social, cultural and cyber regulations
			Function competently as an individual and as a leader in multidisciplinary projects.
	1		Apply the inherent skills with absolute focus to function as a successful entrepreneur.
S.No	COURSE CODE	NAME OF THE COURSE	COURSE OUTCOME
			Got an idea about number system concept
			Know about the designing of a circuit
1	15MCA101	Digital Electronics and computer Organization	Know about the register transfer and micro operations
			Clear idea in the structure of input&couput organization
			Clear idea in the structure of memory organization
			Acquired knowledge in decision statements
			Acquired knowledge in loop control statements
2	15MCA102	Programming Language I - C	Understand the concept of string and its function
			Adequate knowledge in function and recursion
			Applying the knowlede to do file read and write
			Know the basic concept of data structure
			Able to explain list and queues
3	15MCA103	Data Structures	Understand the trees work in data structure
			Understand the searching work in data structure
			Able to do flow problem
			Able to create a program using various operators
			Adequate knowledge to apply switch statements
4	15MCAP01	С	Adequate knowledge to use string functions
			Strong in pointers work
			Understand the working functions of file program
			Adequate knowledge to create aprogram using arrays
			Adequate knowledge to create aprogram using queues
			Able to create a program using list
5	15MCAP02	Data Structures	Able to create a program using search option
			Able to perform sorting operation
			Adequate knowledge to perform datastructure opration using c
			Able to differentiate c and c++
			Understand the concept of classes and objects
6	15MCA201	Programming Language II - C++	Idenfify the work of inheritance
			Adequate knowledge in virtual functions
			Adequate knowledge in exception handling  Get a horizing dea about the wahouthlighing foundation
			Got a basic idea about the webpublishing foundation
7	15MCA202	Web Programming	Able to differentiate client and server side scripting
			Know about plug ins in html
			Got sn awareness in html,sctml
			Understand the evolution of xml
			Understand the evolutions of operating system
l	1		Know about the os functions and structure

	15MCA203	Occasion Senten	
8	15MCA203	Operating System	Adequate knowledge in process management
			Adequate knowledge in process memory management
			Know about secondary storage
			Understand about tcp/ip models
			Know about the working procedure of data link layer
9	15MCA204	Computer Networks	Know about the working procedure of netwok layer
			Clear knowledge in transport layer
			Adequate knowledge in application layer
			Able to create a member function
			Perform operator overloading function
10	15MCAP03	C++	Adequate knowledge to create a program using friend function
			Adequate knowledge to create a program using inheritance
			Able to create a file operation program
			Able to create a program using virtual function
			Able to create a web page by using basic aspects
			Adequate knowledge to perform java script operations.
11	15MCAP04	Web Programming	Can able to perform xml application
			Able to create a web page by using form validations
			Strong knowledge in the concept of string function
			Know about the basics of distributed computing
12	18MCA301	Advance Computer Security	Clear idea about model of a computation
12	10110101	Advance Computer Security	Clear in soket api
			Understand the concept of group communication
			Awareness about mac,sdma,fdma
			Awareness about mac,sdma,fdma  Understand the concept of wireless networks
13	15MCA302	Mobile Computing	
13	15MCA302	Mobile Computing	Understand the concept of wireless networks
13	15MCA302	Mobile Computing	Understand the concept of wireless networks  Know the work of mobile network layer
13	15MCA302	Mobile Computing	Understand the concept of wireless networks  Know the work of mobile network layer  Know the work of mobile transport layer
13	15MCA302	Mobile Computing	Understand the concept of wireless networks  Know the work of mobile network layer  Know the work of mobile transport layer  Clear knowledge in wap architecture  Know about pl/sql
13	15MCA302	Mobile Computing  Oracle 10g Administration	Understand the concept of wireless networks  Know the work of mobile network layer  Know the work of mobile transport layer  Clear knowledge in wap architecture
			Understand the concept of wireless networks  Know the work of mobile network layer  Know the work of mobile transport layer  Clear knowledge in wap architecture  Know about pl/sql  Understand about built in sql functions  Got an aware of cursor
			Understand the concept of wireless networks  Know the work of mobile network layer  Know the work of mobile transport layer  Clear knowledge in wap architecture  Know about pl/sql  Understand about built in sql functions
			Understand the concept of wireless networks  Know the work of mobile network layer  Know the work of mobile transport layer  Clear knowledge in wap architecture  Know about pl/sql  Understand about built in sql functions  Got an aware of cursor  Know about the rdbms concepts  Able to apply quries in rdbms
			Understand the concept of wireless networks  Know the work of mobile network layer  Know the work of mobile transport layer  Clear knowledge in wap architecture  Know about pl/sql  Understand about built in sql functions  Got an aware of cursor  Know about the rdbms concepts  Able to apply quries in rdbms  Know the software testing fundamentals
			Understand the concept of wireless networks  Know the work of mobile network layer  Know the work of mobile transport layer  Clear knowledge in wap architecture  Know about pl/sql  Understand about built in sql functions  Got an aware of cursor  Know about the rdbms concepts  Able to apply quries in rdbms  Know the software testing fundamentals  Know the basics of software testability
14	18MCA303	Oracle 10g Administration	Understand the concept of wireless networks  Know the work of mobile network layer  Know the work of mobile transport layer  Clear knowledge in wap architecture  Know about pl/sql  Understand about built in sql functions  Got an aware of cursor  Know about the rdbms concepts  Able to apply quries in rdbms  Know the software testing fundamentals  Know the basics of software testability  Clear in blackbox testing concept
14	18MCA303	Oracle 10g Administration	Understand the concept of wireless networks  Know the work of mobile network layer  Know the work of mobile transport layer  Clear knowledge in wap architecture  Know about pl/sql  Understand about built in sql functions  Got an aware of cursor  Know about the rdbms concepts  Able to apply quries in rdbms  Know the software testing fundamentals  Know the basics of software testability
14	18MCA303	Oracle 10g Administration	Understand the concept of wireless networks  Know the work of mobile network layer  Know the work of mobile transport layer  Clear knowledge in wap architecture  Know about pl/sql  Understand about built in sql functions  Got an aware of cursor  Know about the rdbms concepts  Able to apply quries in rdbms  Know the software testing fundamentals  Know the basics of software testability  Clear in blackbox testing concept  Adequate knowledge in software testing strategies
14	18MCA303	Oracle 10g Administration	Understand the concept of wireless networks  Know the work of mobile network layer  Know the work of mobile transport layer  Clear knowledge in wap architecture  Know about pl/sql  Understand about built in sql functions  Got an aware of cursor  Know about the rdbms concepts  Able to apply quries in rdbms  Know the software testing fundamentals  Know the basics of software testability  Clear in blackbox testing concept  Adequate knowledge in software testing strategies  Able to identify software fault tolerances  Able to crate a simple vb program
14	18MCA303	Oracle 10g Administration  Software Testing	Understand the concept of wireless networks  Know the work of mobile network layer  Know the work of mobile transport layer  Clear knowledge in wap architecture  Know about pl/sql  Understand about built in sql functions  Got an aware of cursor  Know about the rdbms concepts  Able to apply quries in rdbms  Know the software testing fundamentals  Know the basics of software testability  Clear in blackbox testing concept  Adequate knowledge in software testing strategies  Able to identify software fault tolerances  Able to crate a simple vb program  Performing an calculator program
14	18MCA303	Oracle 10g Administration	Understand the concept of wireless networks  Know the work of mobile network layer  Know the work of mobile transport layer  Clear knowledge in wap architecture  Know about pl/sql  Understand about built in sql functions  Got an aware of cursor  Know about the rdbms concepts  Able to apply quries in rdbms  Know the software testing fundamentals  Know the basics of software testability  Clear in blackbox testing concept  Adequate knowledge in software testing strategies  Able to identify software fault tolerances  Able to crate a simple vb program  Performing an calculator program  Able to crate a simple gaming using vb program
14	18MCA303	Oracle 10g Administration  Software Testing	Understand the concept of wireless networks  Know the work of mobile network layer  Know the work of mobile transport layer  Clear knowledge in wap architecture  Know about pl/sql  Understand about built in sql functions  Got an aware of cursor  Know about the rdbms concepts  Able to apply quries in rdbms  Know the software testing fundamentals  Know the basics of software testability  Clear in blackbox testing concept  Adequate knowledge in software testing strategies  Able to identify software fault tolerances  Able to crate a simple vb program  Performing an calculator program  Able to crate a simple gaming using vb program  Can create a notpad application using vb
14	18MCA303	Oracle 10g Administration  Software Testing	Understand the concept of wireless networks  Know the work of mobile network layer  Know the work of mobile transport layer  Clear knowledge in wap architecture  Know about pl/sql  Understand about built in sql functions  Got an aware of cursor  Know about the rdbms concepts  Able to apply quries in rdbms  Know the software testing fundamentals  Know the basics of software testability  Clear in blackbox testing concept  Adequate knowledge in software testing strategies  Able to identify software fault tolerances  Able to crate a simple vb program  Performing an calculator program  Able to crate a simple gaming using vb program  Can create a rdbms table
14	18MCA303	Oracle 10g Administration  Software Testing	Understand the concept of wireless networks  Know the work of mobile network layer  Know the work of mobile transport layer  Clear knowledge in wap architecture  Know about pl/sql  Understand about built in sql functions  Got an aware of cursor  Know about the rdbms concepts  Able to apply quries in rdbms  Know the software testing fundamentals  Know the basics of software testability  Clear in blackbox testing concept  Adequate knowledge in software testing strategies  Able to identify software fault tolerances  Able to crate a simple vb program  Performing an calculator program  Able to crate a simple gaming using vb program  Can create a notpad application using vb

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	15MCAP06	Software Testing Tools	Adequate knowledge to perform loop testing
17			Adequate knowledge to perform stress testing
			Acquired the professional skills to do unit testing
			Acquired the professional skills to do system testing
			Having an idea to differtiate hardware and software features
			Clear knowledge in the concept of software engineering task
18	18MCAE01	Elective-I Object Oriented Software Engineering	Clear knowledge in the concept of software designing
			Know the concept of golden rules
			Understand the importance of testing
			Clear knowledge in multimedia basics
			Understand the concept of text effects in multimedia
19	15MCAE02	Multimedia and its applications	Adequate knowledge to perform video and audio concept
			Know the exact motion of animation
			Srong in the aspects of multimedia
			Know about early grid activities
			Clear in grid computing anatomy
20	18MCAE03	Principles Of Programming Language	
			Adequate knowledge in ogsa
			Know about the technical details of ogsi
			Know about the golbus gt3 tool kit
			Know the basics of java 2 enterprise edition overview
21	15MCA401	Middleware Technologies	Understand the concept of java servlet
21	15.120.1101		Know about ejb
			Clear in the concept of arichitecting webservices
			Know about structs
			Know the basics of php
22	15MCA402	PHP Programming	Adequate knowledge to apply conditional statements
22	IJWCA402	1111 Hogranning	Adequate knowledge to use arrays and functions
			Understand about session and cookies
			Understand the steps to create basic applications
			Know about basics and history of information sysyem security
			Understand the importance of security considerations
23	18MCA403	Internet Of Things	Know about logical access control
			Understand about the firewalls
			Strong knowledge in privacy issues of smart card applications
			Creating aprogram to get user name and password
			Adequate knowledge to grate a program using jsp tags
24	145MCAP07	Middleware Technologies	Adequate knowledge to implement session bean
			Adequate knowledge to implement entity bean
			Adequate knowledge to implement message driven bean
			Can create a simple program
			Able to crate a program fo random number
25	15MCAP08	PHP Programming	Can create aprogram to show the date and time
			Can able to use the basic concept in website designing
			Having a adequate knowledge to create a website
			Clear idea in marketing and management

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	15MCAE04	Elective-II E-Commerce	Able to analyze the business data management
26			Understand the functioning of business organization
			Clear knowledge in managing strategies
			Clear knowledge in laws regarding business processs
			Know the basics of cloud computing
			Clear in the concept types of clients
27	15MCAE05	Cloud Computing	Know the working procedure of cloud in several organization
			Know the function and limitation of cloud work
			Understand the concept of cloud environment steps
			Know the basics of ai problems
			Understand the concept of heuristic search technique
28	18MCAE06	Information System Security	Adequate knowledge about representation and mapping
			Having an idea to apply and using predicate logic
			Clear idea in expert system
			Adequate knowledge in form controls
			Clear knowledge in functions
29	15MCA501	.Net Framework	Understand the concept of structured programming
			Able to apply built in function
			Got an awareness of working with files
			Know about the types of projects
			Able to do activity planning
30	18MCA502	Internet Working With TCP/IP	Understand about the risk management
			Understand about the configuration management
			Adequate knowledge to do casestudy
			Adequate knowledge to do casestudy  Know the basic dataminig task
			Know the basic dataminig task
31	15MCA503	Data Mining and Warehousing	Know the basic dataminig task Understand abou kdd process
31	15MCA503	Data Mining and Warehousing	Know the basic dataminig task  Understand abou kdd process  Adequate knowlwdge in neural network algorithm
31	15MCA503	Data Mining and Warehousing	Know the basic dataminig task  Understand abou kdd process  Adequate knowlwdge in neural network algorithm  Adequate knowlwdge in neural decision tree algorithm
31	15MCA503	Data Mining and Warehousing	Know the basic dataminig task  Understand abou kdd process  Adequate knowlwdge in neural network algorithm  Adequate knowlwdge in neural decision tree algorithm  Strong idea in genetic algorithm work process
31	15MCA503	Data Mining and Warehousing	Know the basic dataminig task  Understand abou kdd process  Adequate knowlwdge in neural network algorithm  Adequate knowlwdge in neural decision tree algorithm  Strong idea in genetic algorithm work process  Professional skills gained to implement conditional statements
31	15MCA503	Data Mining and Warehousing  NET Programming	Know the basic dataminig task  Understand abou kdd process  Adequate knowlwdge in neural network algorithm  Adequate knowlwdge in neural decision tree algorithm  Strong idea in genetic algorithm work process  Professional skills gained to implement conditional statements  Knowledge acquired to apply looping statements
			Know the basic dataminig task  Understand abou kdd process  Adequate knowlwdge in neural network algorithm  Adequate knowlwdge in neural decision tree algorithm  Strong idea in genetic algorithm work process  Professional skills gained to implement conditional statements  Knowledge acquired to apply looping statements  Professional skills gained to implement functions
			Know the basic dataminig task  Understand abou kdd process  Adequate knowlwdge in neural network algorithm  Adequate knowlwdge in neural decision tree algorithm  Strong idea in genetic algorithm work process  Professional skills gained to implement conditional statements  Knowledge acquired to apply looping statements  Professional skills gained to implement functions  Knowledge acquired to create a program using arrays
			Know the basic dataminig task  Understand abou kdd process  Adequate knowlwdge in neural network algorithm  Adequate knowlwdge in neural decision tree algorithm  Strong idea in genetic algorithm work process  Professional skills gained to implement conditional statements  Knowledge acquired to apply looping statements  Professional skills gained to implement functions  Knowledge acquired to create a program using arrays  Able to apply the controls in program
32	15MCAP09	.NET Programming	Know the basic dataminig task  Understand abou kdd process  Adequate knowlwdge in neural network algorithm  Adequate knowlwdge in neural decision tree algorithm  Strong idea in genetic algorithm work process  Professional skills gained to implement conditional statements  Knowledge acquired to apply looping statements  Professional skills gained to implement functions  Knowledge acquired to create a program using arrays  Able to apply the controls in program  Understand about the risk management
			Know the basic dataminig task  Understand abou kdd process  Adequate knowlwdge in neural network algorithm  Adequate knowlwdge in neural decision tree algorithm  Strong idea in genetic algorithm work process  Professional skills gained to implement conditional statements  Knowledge acquired to apply looping statements  Professional skills gained to implement functions  Knowledge acquired to create a program using arrays  Able to apply the controls in program  Understand about the risk management  Understand about the configuration management
32	15MCAP09	.NET Programming	Know the basic dataminig task  Understand abou kdd process  Adequate knowlwdge in neural network algorithm  Adequate knowlwdge in neural decision tree algorithm  Strong idea in genetic algorithm work process  Professional skills gained to implement conditional statements  Knowledge acquired to apply looping statements  Professional skills gained to implement functions  Knowledge acquired to create a program using arrays  Able to apply the controls in program  Understand about the risk management  Understand about the configuration management  Adequate knowledge to do casestudy
32	15MCAP09	.NET Programming	Know the basic dataminig task  Understand abou kdd process  Adequate knowlwdge in neural network algorithm  Adequate knowlwdge in neural decision tree algorithm  Strong idea in genetic algorithm work process  Professional skills gained to implement conditional statements  Knowledge acquired to apply looping statements  Professional skills gained to implement functions  Knowledge acquired to create a program using arrays  Able to apply the controls in program  Understand about the risk management  Understand about the configuration management  Adequate knowledge to do casestudy  Professional skills gained to implement functions
32	15MCAP09	.NET Programming	Know the basic dataminig task  Understand abou kdd process  Adequate knowlwdge in neural network algorithm  Adequate knowlwdge in neural decision tree algorithm  Strong idea in genetic algorithm work process  Professional skills gained to implement conditional statements  Knowledge acquired to apply looping statements  Professional skills gained to implement functions  Knowledge acquired to create a program using arrays  Able to apply the controls in program  Understand about the risk management  Understand about the configuration management  Adequate knowledge to do casestudy  Professional skills gained to implement functions  Adequate knowledge to create the software applications
32	15MCAP09	.NET Programming	Know the basic dataminig task  Understand abou kdd process  Adequate knowlwdge in neural network algorithm  Adequate knowlwdge in neural decision tree algorithm  Strong idea in genetic algorithm work process  Professional skills gained to implement conditional statements  Knowledge acquired to apply looping statements  Professional skills gained to implement functions  Knowledge acquired to create a program using arrays  Able to apply the controls in program  Understand about the risk management  Understand about the configuration management  Adequate knowledge to do casestudy  Professional skills gained to implement functions  Adequate knowledge to create the software applications  Strong knowledge in programming concept
32	15MCAP09	.NET Programming  Router Configuration	Know the basic dataminig task  Understand abou kdd process  Adequate knowlwdge in neural network algorithm  Adequate knowlwdge in neural decision tree algorithm  Strong idea in genetic algorithm work process  Professional skills gained to implement conditional statements  Knowledge acquired to apply looping statements  Professional skills gained to implement functions  Knowledge acquired to create a program using arrays  Able to apply the controls in program  Understand about the risk management  Understand about the configuration management  Adequate knowledge to do casestudy  Professional skills gained to implement functions  Adequate knowledge to create the software applications  Strong knowledge in programming concept  Strong knowledge in database creation
32	15MCAP09	.NET Programming  Router Configuration	Know the basic dataminig task  Understand abou kdd process  Adequate knowlwdge in neural network algorithm  Adequate knowlwdge in neural decision tree algorithm  Strong idea in genetic algorithm work process  Professional skills gained to implement conditional statements  Knowledge acquired to apply looping statements  Professional skills gained to implement functions  Knowledge acquired to create a program using arrays  Able to apply the controls in program  Understand about the risk management  Understand about the configuration management  Adequate knowledge to do casestudy  Professional skills gained to implement functions  Strong knowledge in programming concept  Strong knowledge in programming concept  Strong knowledge to do forms creation and testing
32	15MCAP09	.NET Programming  Router Configuration	Know the basic dataminig task Understand abou kdd process  Adequate knowlwdge in neural network algorithm  Adequate knowlwdge in neural decision tree algorithm  Strong idea in genetic algorithm work process  Professional skills gained to implement conditional statements  Knowledge acquired to apply looping statements  Professional skills gained to implement functions  Knowledge acquired to create a program using arrays  Able to apply the controls in program  Understand about the risk management  Understand about the configuration management  Adequate knowledge to do casestudy  Professional skills gained to implement functions  Adequate knowledge to create the software applications  Strong knowledge in programming concept  Strong knowledge in database creation  Adequate knowledge to do forms creation and testing  Adequate knowledge to do forms creation and testing
32	15MCAP09	.NET Programming  Router Configuration	Know the basic dataminig task  Understand abou kdd process  Adequate knowlwdge in neural network algorithm  Adequate knowlwdge in neural decision tree algorithm  Strong idea in genetic algorithm work process  Professional skills gained to implement conditional statements  Knowledge acquired to apply looping statements  Professional skills gained to implement functions  Knowledge acquired to create a program using arrays  Able to apply the controls in program  Understand about the risk management  Understand about the configuration management  Adequate knowledge to do casestudy  Professional skills gained to implement functions  Strong knowledge in programming concept  Strong knowledge in programming concept  Strong knowledge to do forms creation and testing

35	18MCAE07	Soft Computing	
			Understand the concept of webservice building blocks
			Know about e business
			Understand about content management
			Know the imprtance of analysis and objects
36	15MCAE08	WAP and XML	Clear knowledge in the concept of software designing
30	15110.1200	Will talk III	Know the imprtance of information manage ment
			Identify the structure of theuml
			Enough knowledge to make the design through design
			Understand the rise of mobile data
27	15MCAE00	Cofeenan Period Management	Know about wireless markup language
37	15MCAE09	Software Project Management	Clear knowledge in using variables
			Having an idea to design a user interface
			Know about wireless technology applications
			Know the fundamentals of digital image processing
			Clear in the mathematical problem solving concept
38	15MCA601	Digital Image Processing	Clear in the concept of histrogram and eye diagram
			Know the basic of color image processing
			Adequate knowledge in all stepts of image processing logic
			Knowledge acquired to create a program using arrays
39	18MCAP11	Digital Image Processing Using Matlab Tools	Able to apply the controls in program
			Know the fundamentals of digital image processing
			Clear in the mathematical problem solving concept
			Clear in fundamentals of neural networks
			Understand the concept of back propagation networks
40	18MCAE10	IV Bigdata & Analytics	Know about adaptive reason theory
			Knowledge in fuzzy set theory
			Adequate knowledge in crisp logic
			Know about the characteristics of computer intruction
			Clear in the concept of program security
41	18MCA E11	Green Computing	Understand about the designing of trusted operating systems
			Clear in database security
			Understand about security in networks
			Acquired the basic knowledgein java and j2ee platform
			Know about orb protocol
42	18MCA E12	Machine Learning	Know about servlet programming
			Clear in java transaction
			Adequate knowledge in commands, items and event
			Adequate knowledge to create the software applications
43	15MCAPR2	Major Project and Viva-Voce	Strong knowledge in programming concept
			Strong knowledge in database cration
			Adequate knowledge to do forms creation and testing
			Adequate knowledge to explain their project with external and having boldness to survey in the it world

			On completion of the M.Com Programme, the graduate will be equipped with
Programme Outcomes			Strong knowledge inputs in Commerce which caters the Local, National and Global requirements  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.
		Togramme Outcomes	Professional knowledge and interpersonal skills that fosters holistic development
			Ethical responsibility and contribute to the society through active research.
			Contemporary knowledge of business that will enhance the skills for lifelong learning
			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.
	Progr	ramme Specific Outcomes	Prepare the students to apply statistical methods for analyzing Business data, Investments and Portfolio Management
			Provide guidance to students to plan and undertake independent research in chosen discipline
S.No	Course Code	Course Name	Course Outcomes
			Understand the corporate practice in valuing shares and goodwill.
1	15MCM101	Corporate Accounting	Acquaint with the legal formats and special items and adjustments pertaining to Banking companies and Insurance companies.
1	13MCM101	Corporate Accounting	Develop the skills in preparation of consolidated Balance Sheet of Holding company and Subsidiary company.
			To learn the latest provisions relating to Government accounting and Human Resources accounting
			Describe the nature and scope of managerial economics, demand analysis and growth model of the firm.
			Learn the techniques of production function and cost analysis.
2	15MCM102	Managerial Economics	Comprehend the market forms and apply the pricing techniques to determine the price of factors of production.
			Apply the knowledge of national income accounting and cost of living measurement in real world situations.
		Human Resouce Management	Assimilate the product and financial market equilibrium and decipher monetary and fiscal policies.  Familiarize the basic concepts of human resource management, framework and its role to play in effective business administration
3	18MCM103		Interpret the elements relate to various aspects of HRM, such as recruitment, placement, evaluation, compensation and development
			Understanding the goals of HRM and organizational outcomes, and apply this understanding in practical situations
			Analyse the changing dimensions of international trade and appreciate the role of trade theories in explaining trade patterns in different industries.
			Assess the political realities of world trade and measures taken by governments to intervene in international trade.
4	18MCM104	International Business	Critically examine theories of international investment and bring out their relevance in global investment scenario.
			Appreciate the role international organisations like WTO in regulating global trade and investment.
			Examine the differences in the political, legal, economic and cultural environment of various countries and their implications for international business decisions
			Understand and explain the conceptual framework of banking
5	18MCM105	Legal Asects in Bankiing and Insurance	Classify and Demonstrate the types of deposit, cheques, loans and advances
		g	Illustrate the various electronic payment methods
			Analyzing current insurance coverage and potential need
			Discuss the supply and demand theory and its impact on insurance.
			Explain the effects of government policy on the economic environment and insurance industry.
6	15MCM106	Business Environment	Outline how an entity operates in a business environment.
			Describe how financial information is utilized in business.
			Explain the legal framework that regulates the insurance industry.
			To understand the basic concepts and processes used to determine product costs
7	18MCM201	Advanced Cost Accounting	To be able to interpret cost accounting statements
		-	To be able to analyze and evaluate information for cost ascertainment, planning, control and decision making
			To be able to solve simple cases
			Understand the basic principles underlying the Indirect Taxation Statutes
8	17MCM202	7MCM202 Indirect Taxation	Identify and analyze the procedural aspects under different applicable statutes related to indirect taxation
			Examine the concepts used in indirect tax, assessment, powers, duties, offences, penalties etc.
			To familiarize the students with the fundamentals of marketing to enable them to take better marketing decisions.

			To discuss and make the students understand the nuances and complexities involved in various product and pricing decisions.
9	16MCM203	Marketing Management	To equip the students to take effective distribution decisions for products and services.
			To develop the skills among students to enable them to design the Promotion-Mix strategies advertising campaigns.  To make the students aware about the current trends in marketing to enable them to take proactive measures while taking marketing decisions.
			Understand the foundations of financial management, risk return framework and role of a finance manager.
10	15MCM204	Financial Management	Analyze and evaluate capital projects under different situations using appropriate capital budgeting techniques.  Critically examine various theories and determinants of capital structure, analyze financial plans and determine optimal capital structure.
			Critically examine various theories and policies of dividend and determine optimal payout policy.
			Understand the intricacies of working capital management and effectively manage cash, receivables and inventories.
11	16MCME03	Export and Import Procedure	Explain the concepts in custom clearance in international business with respect to foreign trade  Apply the current custom clearance phenomenon and to evaluate the global business environment in terms of economic, social and legal aspects
			Analyse the principle of international business and strategies adopted by firms to for exporting products globally
			Integrate concept in custom clearance concepts with functioning of global trade
			To describe the meaning and role of Business Research.
			To formulate the research problem and understanding the major research designs.
12	15MCMID1	Business Research Methods	To determine data sources and learn the art of designing a questionnaire.
			To understand various sampling techniques and develop understanding of data collection and fieldwork.
			To enable students to analyse data using various techniques and to learn how to communicate the results and follow up.
12	151601001	D:	Examine the basic concepts of schedule of rates of tax, tax liability, penalties and prosecution
13	15MCM301	Direct Tax	Explain the total taxable income of an assessee
			Apply and practice the computation of total income
			Able to determine the cost of capital.
14	18MCM302	Investment Management	Able to adjust financial statements for valuation purposes.
14	18MCM302	Investment Management	Able to adjust financial statements for valuation purposes.  Able to use adjusted financial statements to produce a sound valuation of a company.
14	18MCM302	Investment Management	Able to use adjusted financial statements to produce a sound valuation of a company.  Able to develop investment policy statements for institutional and individual investors.
14	18MCM302	Investment Management	Able to use adjusted financial statements to produce a sound valuation of a company.
14	18MCM302	Investment Management  Labour Law and Industrial Relation	Able to use adjusted financial statements to produce a sound valuation of a company.  Able to develop investment policy statements for institutional and individual investors.  To recognize the different industrial relations systems  To distinguish the procedure concerning worker participation and participatory institutions and instruments of trade
			Able to use adjusted financial statements to produce a sound valuation of a company.  Able to develop investment policy statements for institutional and individual investors.  To recognize the different industrial relations systems  To distinguish the procedure concerning worker participation and participatory institutions and instruments of trade union representation
			Able to use adjusted financial statements to produce a sound valuation of a company.  Able to develop investment policy statements for institutional and individual investors.  To recognize the different industrial relations systems  To distinguish the procedure concerning worker participation and participatory institutions and instruments of trade union representation  To classify the authorized services and agencies for employment
			Able to use adjusted financial statements to produce a sound valuation of a company.  Able to develop investment policy statements for institutional and individual investors.  To recognize the different industrial relations systems  To distinguish the procedure concerning worker participation and participatory institutions and instruments of trade union representation  To classify the authorized services and agencies for employment  To distinguish employee rights and obligations according to the scope of employment
15	17MCM303	Labour Law and Industrial Relation	Able to use adjusted financial statements to produce a sound valuation of a company.  Able to develop investment policy statements for institutional and individual investors.  To recognize the different industrial relations systems To distinguish the procedure concerning worker participation and participatory institutions and instruments of trade union representation  To classify the authorized services and agencies for employment To distinguish employee rights and obligations according to the scope of employment To defend employ rights before supervisory and control institutions.  Discuss modern computing infrastructures from the perspective of the internet and organisations Reflect on general principles revealed through practical exploration of specific tools, techniques and methods in e-
15	17MCM303	Labour Law and Industrial Relation	Able to use adjusted financial statements to produce a sound valuation of a company.  Able to develop investment policy statements for institutional and individual investors.  To recognize the different industrial relations systems  To distinguish the procedure concerning worker participation and participatory institutions and instruments of trade union representation  To classify the authorized services and agencies for employment  To distinguish employee rights and obligations according to the scope of employment  To defend employ rights before supervisory and control institutions.  Discuss modern computing infrastructures from the perspective of the internet and organisations  Reflect on general principles revealed through practical exploration of specific tools, techniques and methods in e-business.
15	17MCM303	Labour Law and Industrial Relation	Able to use adjusted financial statements to produce a sound valuation of a company.  Able to develop investment policy statements for institutional and individual investors.  To recognize the different industrial relations systems To distinguish the procedure concerning worker participation and participatory institutions and instruments of trade union representation  To classify the authorized services and agencies for employment To distinguish employee rights and obligations according to the scope of employment To defend employ rights before supervisory and control institutions.  Discuss modern computing infrastructures from the perspective of the internet and organisations Reflect on general principles revealed through practical exploration of specific tools, techniques and methods in e-business.  Discuss and explain theoretical and practical issues of conducting business over the internet and the Web
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15	17MCM303	Labour Law and Industrial Relation  E.Commerce & MIS	Able to use adjusted financial statements to produce a sound valuation of a company.  Able to develop investment policy statements for institutional and individual investors.  To recognize the different industrial relations systems  To distinguish the procedure concerning worker participation and participatory institutions and instruments of trade union representation  To classify the authorized services and agencies for employment  To distinguish employee rights and obligations according to the scope of employment  To defend employ rights before supervisory and control institutions.  Discuss modern computing infrastructures from the perspective of the internet and organisations  Reflect on general principles revealed through practical exploration of specific tools, techniques and methods in e- business.  Discuss and explain theoretical and practical issues of conducting business over the internet and the Web  To know and understand the concepts of investment environment  To apply the concept of fundamental and technical analysis for the construction of a portfolio
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16	17MCM303 17MCM304	Labour Law and Industrial Relation  E.Commerce & MIS  Security Analysis and Porfolio Mangement	Able to use adjusted financial statements to produce a sound valuation of a company.  Able to develop investment policy statements for institutional and individual investors.  To recognize the different industrial relations systems To distinguish the procedure concerning worker participation and participatory institutions and instruments of trade union representation To classify the authorized services and agencies for employment To distinguish employee rights and obligations according to the scope of employment To defend employ rights before supervisory and control institutions.  Discuss modern computing infrastructures from the perspective of the internet and organisations Reflect on general principles revealed through practical exploration of specific tools, techniques and methods in e-business.  Discuss and explain theoretical and practical issues of conducting business over the internet and the Web  To know and understand the concepts of investment environment  To apply the concept of fundamental and technical analysis for the construction of a portfolio  To analyze the performance of a selected portfolio for a certain period  Understand the various alternatives available for investment.  Learn to measure risk and return. Find the relationship between risk and return  to acquire a basic and clear understanding of philosophical ethics  to understand the principles of moral decision-making in global business
16	17MCM303 17MCM304	Labour Law and Industrial Relation  E.Commerce & MIS  Security Analysis and Porfolio Mangement	Able to use adjusted financial statements to produce a sound valuation of a company.  Able to develop investment policy statements for institutional and individual investors.  To recognize the different industrial relations systems To distinguish the procedure concerning worker participation and participatory institutions and instruments of trade union representation  To classify the authorized services and agencies for employment To distinguish employee rights and obligations according to the scope of employment  To defend employ rights before supervisory and control institutions.  Discuss modern computing infrastructures from the perspective of the internet and organisations Reflect on general principles revealed through practical exploration of specific tools, techniques and methods in e- business.  Discuss and explain theoretical and practical issues of conducting business over the internet and the Web  To know and understand the concepts of investment environment  To apply the concept of fundamental and technical analysis for the construction of a portfolio  To analyze the performance of a selected portfolio for a certain period  Understand the various alternatives available for investment.  Learn to measure risk and return. Find the relationship between risk and return  to acquire a basic and clear understanding of philosophical ethics  to understand the principles of moral decision-making in global business  to identify the trade-offs that face an ethical manager  to understand how competitive advantage maps on to corporate social responsibility  To acquire ethical frameworks, so as to attack moral problems critically and comprehensively
16	17MCM303 17MCM304	Labour Law and Industrial Relation  E.Commerce & MIS  Security Analysis and Porfolio Mangement	Able to use adjusted financial statements to produce a sound valuation of a company.  Able to develop investment policy statements for institutional and individual investors.  To recognize the different industrial relations systems  To distinguish the procedure concerning worker participation and participatory institutions and instruments of trade union representation  To classify the authorized services and agencies for employment  To distinguish employee rights and obligations according to the scope of employment  To defend employ rights before supervisory and control institutions.  Discuss modern computing infrastructures from the perspective of the internet and organisations  Reflect on general principles revealed through practical exploration of specific tools, techniques and methods in e- business.  Discuss and explain theoretical and practical issues of conducting business over the internet and the Web  To know and understand the concepts of investment environment  To apply the concept of fundamental and technical analysis for the construction of a portfolio  To analyze the performance of a selected portfolio for a certain period  Understand the various alternatives available for investment.  Learn to measure risk and return. Find the relationship between risk and return  to acquire a basic and clear understanding of philosophical ethics  to understand the principles of moral decision-making in global business  to identify the trade-offs that face an ethical manager  to understand how competitive advantage maps on to corporate social responsibility

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			Make various managerial decisions on the basis of learning about concepts and issues involved therein.
			To describe the role of Strategic Management
			understand various levels at which Strategy exist namely Corporate, Business and Functional level
20	18MCM402	Strategic Management	To help students learn strategic management models
			To analyze how organizations make decisions in response to rapid changes that occur due to environmental changes.
			To analyze how firms make entry into global markets and implement and evaluate strategy at an International leval
21	18MCME07	Entrepreneurship &Small Business Management	Familiarize the basic concepts Entrepreneurship, framework and its role to play in effective small business management.  Interpret the elements relate to various aspects such as recruitment, placement, evaluation, compensation and
			development
22	18MCM E08	Micro Finanace Management	knowledgeable about the benefits and controversies of microfinance in modern economies;
			Be familiar with the process of finding loan recipients and delivering a microfinance pitch;
			Explain the Retail marketing techniques and discuss how it is used to pursue new marketing opportunities
23	18MCM E09	Retail Marketing Manangement	Define grading and Illustrate the opportunities for graded agricultural and commercial products
			dentify the marketing mix elements and describe the components of market mix.

## HINDI

S.No	Course Code	Course Name	Course Outcome
1	18LAHI01		Syllabi framed to contain 50% of Functional Hindi instead of 30% for more employability in public sector.  Proficiency in Language and Communication Skills acquired
			Course contents enable the students to be competent in job sector  In and out campus Cultural and literary activities help in personality development.
2	18LAHI02	Hindi II	Oral communication in the language is encouraged in the class room through conversation, discussions and seminars  More socially relevant contents are included to develop human and cultural values
			Non Hindi students are given special coaching in oral communication.

# TAMIL

S.No	Course Code	Course Name	Course Outcome
			Proficiency in Language and Communication Skills acquired
1	16LATA01	TAMIL	Ethical and human values are promoted by introducing great leaders and poets literary personalities in tamil
			Promote creative thinking and literary skills are promoted
			Develop confidence and leadership quality by taking part in Out campus programs.
2	16LATA02	TAMIL	Syllabi have different trends in literature like writing and verbal communication.
			More contents are included to promote employability in Tamilnadu public service commission.
			Better communication skill in the language by promoting discussions debates and stage programmes.
3	16LATA03	TAMIL	Students are encourage to participate in cultural and literary activities in and outside campus to build personality.
			The course contents are socially relevance to cultivate behavioural and cultural values.
			More contents are included to promote employability in Tamilnadu public service commission.
4	16LATA04	TAMIL	Has contents to promote writing and journals.
			Computing in Tamil is introduced to assist Develop confidence and leadership quality by taking part in Out campus programs getting employability.

### FRENCH

S.No	Course Code	Course Name	Course Outcome
			Basic level of Comprehension

1	15LAFR01	FRENCH - I	Understanding of tenses  Exploring of Language translation  Identification of Number in French  Developing sentence Formation
2	15LAFR02	FRENCH-II	Understanding of Formation of Questions  Change of sentence in Negative  Understanding Future Tense  Gender Identification and Allocation

#### MALAYALAM

S.No	Course Code	Course Name	Course Outcome	
	15LAMY01	MALAYALAM	To know the beauty of the coherence of Language and Literature.	
1			To demonstrate the awareness of evolution theory of language by varied culture.	
			To explore literary elements	
		MALAYALAM	Understand the social, historical and political backgrounds of the world of the novelists and short story writers through the elaborate and allegorical descriptions in the prescribed novels.	
2	15LAMY02		To gain knowledge in the development of literature from man's physical exploration to social and psychological journeys.	
			To enhance the Reading skills and understand, how to represent their experience and ideas critically, creatively, and influentially through the medium of language.	
	15LAMY03	MALAYALAM	To understand and appreciate poetry as a literary art form.	
3			To enhance their own creativity.	
			To facilitate their writing skills	
	15LAMY04	MALAYALAM	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.	
4			Interpret literary texts in Malayalam by nurturing and utilizing their ability to understand drama in a skilled, knowledgeable, and ethical manner.	
			Become well acquainted with the rhetorical aspect of Drama, historical contexts and psycho-social aspects.	

### PART II - ENGLISH

S.No Course Code Course Name		Course Name	Course Outcome	
	16ENG001	Part II - English I	Learn the use of language through prescribed texts.	
1			Enables them to recognize and draw parallels to thoughts, feelings, ideas in the texts from life experiences.	
•			Understand the nuances of poetry.	
			expose to the art of writing in English.	
	16ENG002	Part II- English II	Write coherently and persuasively about literary texts	
			Developed their intellectual, personal and professional abilities	
2			Acquired basic language skills to communicate in English.	
			Acquired the linguistic competencies in various life situations.	
			Developed positive attitudes towards learning English.	

#### PART IV COMMUNICATIVE ENGLISH

S.No	Course Code	Course Name	Course Outcome
1	15EDC002	PART IV- COMMUNICATIVE ENGLISH	Helps students to become effective communicators and critical consumers of messages.  Preparse them for life as an educated citizen and as a productive professional.  Express ideas in clear and grammatically correct English, using appropriate punctuation and cohesion devices

## PART IV ENVIRONMENTAL STUDIES

S.No	Course Code	Course Name	Course Outcome
1	18UFCA01	PART IV- ENVIRONMENTAL STUDIES	To sensitize the students on environmental values and make them conscious of the need to maintain the environmental quality in the benefit of our posterity.

#### PART IV VALUE EDUCATION

S.No	Course Code	Course Name	Course Outcome
1	18UFCA02	PART IV - VALUE EDUCATION	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

## MATHEMATICS

S.No Course Code Course Name Course Outcome		Course Outcome	
	16BBAID1/	BUSINESS MATHEMATICS AND STATISTICS	Remember set theory concepts and to analyze the applications of business problems
			To understand the concepts of Matrices, its types and to solve simultaneous equations
1	16BACID1/ 16BABID1		Analyze the measures of central tendency and to apply its concepts
			To Analyze the measures of dispersion and to apply its concepts
			To correlation, Regression and its properties to apply its concepts
			Understand the meaning, scope, Models of Operations Research and create mathematical formulation of LPP to solve Graphical method
	15BBAID2/		To understand the concept of Transportation and Assignment problems and its type
2	15BACID2/ 15BABID2	OPERATIONS RESEARCH	To analyze the decision making using the concept of Game theory
			Understand the CPM, Network concepts and its Types
			To understand the concepts of PERT to find the probability of completion of projects
			Remember set theory concepts and to analyze the applications of business problems
3			To understands the concepts of Matrices, its types and to solve simultaneous equations
	15BCPID1	MATHEMATICS FOR BUSINESS	Apply the concepts of limits and differentiation in Business problems
			To solve Gauss elimination , Gauss Jordon and to analyze various methods of numerical integration
			To understand the concepts of Interpolation
	15BCPID2		To understand the meaning, scope of statistics and its basic concepts
			Analyze the measures of central tendency and to apply its concepts
4		STATISTICS FOR BUSINESS	To analyze the measures of dispersion
			To understand the meaning of correlation, Regression, types and its properties
			To understand the concepts of Time series, Method of least squares and Index numbers. And to analyze its methods
	15BSCID1/ 15BITID1/ 15BCTID1/ 15BCAID1		To understand the system of linear algebraic equations and to analyze the various method
			To understand and analyze concepts of Numerical Intepolation, Numerical Integration and its types
5			Analyze the measures of central tendency and to apply its concepts
			To analyze the measures of dispersion
			To understand the meaning of correlation, Regression and its properties
	15BSCID2/ 15BCTID2/ 15BITID2	2/ 2/ DISCREATE MATHEMATICS 2	To understand the concepts of set theory, fundamental product and duality principle
			To understand and analyze concepts of mathematical logic, proportional calculus and predicate calculus
6			Analyze types of relation and types of functions to solve
			To understanding the concept of formal languages, Grammar, finite state automata and to apply its concepts

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			To understand the meaning of Graph , Types of graphs , its basic theorems and to apply its concepts to solve	
	15BCMID3/ 17BPSID3/ 15BCCID3/ 15BCSID3	BUSINESS MATHEMATICS	Remember set theory concepts and to analyze the applications of business problems	
			To understands the concepts of Matrices, its types and to solve simultaneous equations	
7			Apply the concepts of limits and differentiation in Business problems	
			To solve Gauss elimination , Gauss Jordon and to analyze various methods of numerical integration	
			To understand the concepts of Interpolation	
		1	To understand the meaning, scope of statistics and its basic concepts	
	15BCSID4/ 15BCCID4/		Analyze the measures of central tendency and to apply its concepts	
8	16BCMID4/ 17BPSID4/	BUSINESS STATISTICS	To analyze the measures of dispersion	
	15BITID4		To understand the meaning of correlation, Regression, types and its properties	
			To understand the concepts of Time series, Method of least squares and Index numbers. And to analyze its methods	
		MATHEMATICS-I	To analyze the concepts of Matrix concepts, Characteristic roots and Characteristics vectors and also to solve simultaneous equations.	
	18BESID1		To understand the concepts theory concepts of Vector calculus and its operations.	
9			Analyze the types of Fourier series and to apply its concepts.	
			To understand and apply the concepts of Laplace transforms	
			To understand the meaning of Complex numbers ,expansions of trigonometric terms and De Moivre's Theorem.	
	18BESID2	MATHEMATICS-II	To analyze the concepts of Second order linear differential equation with constant coefficients and its application to electric circuits RL, RC, RLC.	
			To understand the system of linear algebraic equations and to analyze the various methods.	
10			To understand and analyze concepts of Numerical Interpolation, Numerical Integration and its types.	
			To Analyze the types of Fourier Transforms and to apply its concepts.	
			To Analyze and appilled the concept of beta and gamma functions	
	15BCTID4/ 15BITID4/ 15BCAID2/ 15BSCID3	OPERATIONS RESEARCH	To create the formulation of LPP and to evaluate various methods of LPP namely Graphical method, Simplex method and Big-M method	
			To understand the concept of Transportation and Assignment problems and its type	
11			To analyze the decision making using the concept of Game theory	
			To analyze the concept of Queing Theory and its methods	
			To understand the concepts of PERT to find the probability of completion of projects	