

Department of Commerce with Computer Applications



B.COM WITH COMPUTER APPLICATIONS - PEOS, PSOS & POS

Program Educational Objectives (PEOs) The B.Com (Computer Applications)program describe accomplishments that graduatesare expected to attain within five to seven years after graduation		
PEO1	To Provide students with specific knowledge and skills relevant to their disciplines and careers.	
PEO2	To make the students acquainted with technical and practical concepts for understanding the real business problems using different programming languages.	
PEO3	To train the students on practical business applications using high level programming languages in real world.	
PEO4	To make the students aware about the useful applications of different computerlanguages that solve real world problems.	
PEO5	To enhance the knowledge on visual based programming language and object- oriented language in different business applications using various design principlesportraying the concepts of computer applications in business activities.	

Program Specific Outcomes (PSO) After the successful completion of B.Com (Computer Applications) program, the students are expected to			
PSO1	Know and apply the various business management and computer applications concepts to solve the real-world problems.		
PSO2	Acquire the knowledge on object-based computer applications in various business fields.		
PSO3	Solve the business applications related issues of using oracle and object oriented programming languages		
PSO4	Analyze the real e-business problems by using the different applications of procedure-oriented language programs		
PSO5	Enrich the practical knowledge on applications of accounting and programming languages in business ventures.		

Program Outcomes (POs)

After the successful completion of **B.Com (Computer Applications)** program, the students are expected to

PO1	Develop the accounting, finance, banking, Insurance, marketing as well as the computer application knowledge to the students.
PO2	Create awareness of the students about Business law, Tax Law and legislations related to business and computer applications
PO3	Get the training to learn how to develop successful computer programs to solve the business problems for increasing the productivity of the e-business.
PO4	Obtain the practical application exposure on ms-office and oracle software.
PO5	Apply object oriented or non-object oriented techniques to solve business computing problems which make students a good programmer.

COURSE OUTCOMES FRO B.COM WITH COMPUTER APPLICATIONS

	Course Title: Principles of Accountancy		
_	Expected Course Outcomes:		
(On the successful completion of the course, student will be able to:		
1	Recall the fundamental concepts of accounting and book keeping.	K1	
2	Solve the errors in book keeping and identify the effect of BRS in an enterprise	K2	
3	Aware of Bills of exchange and its transaction including Accommodation bills	K2	
4	To gain knowledge about the preparation of final Accounts	К3	
5	Understand the Account current statement and procedure for calculation of Average due date methods	К2	
]	K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create		

	Course Title: Introduction to InformationTechnology		
	Expected Course Outcomes: On the successful completion of the course, student will be able to:		
1	Understand the basic concepts about hardware and software components and data retrieval from various areas of business.	K1	
2	Recall and remember the different types of computers available in business industries.	K1	
3	Aware of different programming and machine level languages and steps to develop computer programmes.	K2	
4	To gain knowledge about e-commerce, internet and extranet understand the uses of world wide web applications.	K2	
5	Create the applications of computer information system in various business fields.	К2	
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6–Create			

Course Title: Mathematics for Business			
	Expected Course Outcomes:		
On	the successful completion of the course, student will be able to:		
1	Understand the basic concepts of arithmetic and geometric series and different effective rates of interest for sinking fund, annuity and presentvalue.	K2	
2	Know the basic concepts of addition and multiplication analysis and input and output analysis.	K1	
3	Aware of variables, constants and functions and evaluate the first and second order derivatives.	K2	
4	To gain knowledge on integral calculus and determining definite and indefinite functions.	K2	
5	Analyze the linear programming problem by using graphical solutionand simple method.	K4	
K1	K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6– Create		

Cou	rse Title: Computer Applications: Ms Office -Practical-I	
Exp	ected Course Outcomes:	
On	the successful completion of the course, student will be able to:	
1	Understand the basic concepts computer applications using MS-	K2
	Officeapplications for the business transactions.	
2	Create customers list using mail merge for sending letters to	K3
	therespondents at a time.	
3	Aware and apply various statistical tools available in Ms-excel for	K3
4	thebusiness enterprise transactions.	170
4	To gain knowledge making effective presentation for the	K2
5	businessmeeting using power point presentation.	V2
5	Understand and evaluate the database using MS-Word and excel.	K3
KI	- Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6	- Create
າດາ	rse Title: Advanced Accounting	
	ected Course Outcomes:	
	the successful completion of the course, student will be able to:	
1	Inderstand the different methods of depreciation.	K2
_	olve the problems of branch accounts, hire purchase and installment system.	K2
	Know the single entry system and statement of affairs method	K2
u	singconversion method	
J	o gain knowledge on Partnership Accounts, Division of Profits, Fixed	К3
a	ndFluctuating Capital, Admission and Retirement of partners.	
J	Inderstand Dissolution of Partnership and Insolvency of Partners	K3
K1	- Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6	– Create
۲.		
	rse Title: Computer Applications: Ms Office -Practical-I ected Course Outcomes:	
	the successful completion of the course, student will be able to:	
1	Understand the basic concepts computer applications using MS-	K2
1	Accessfor maintaining the database.	K 2
2	Create different databases using access application for developing	K4
-	thebusiness transactions	
3	Apply the accounting principles and rules in tally software packages	К3
	forupdating the accounting transactions.	
1	To gain knowledge on creating e-mail in tally package.	К3
5	Gain the knowledge on visiting a business enterprise website and	K2
	collectthe data.	
K1	- Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6	– Create
ou	rse Title: Statistics for Business	
xp	ected Course Outcomes:	
Dn	the successful completion of the course, student will be able to:	
[Understand the basic concepts of arithmetic and geometric mean and	K2
	different types of data collection.	
2	Know measures of dispersion.	K1
3	Gain the knowledge on correlation and regression analysis.	K5
1	Understand the different types of moving averages.	K3 K2
5	Know and analyze interpolation and probability	K2

K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create

Course Title: Principles of Marketing Expected Course Outcomes: On the successful completion of the course, student will be able to:		
1	Understand the different types of marketing and career opportunities in marketing.	K2
2	Know about the marketing function for achieving marketing goals.	K1
3	Aware of consumer behaviour and market segmentation and customer relations marketing.	K2
4	Analyze the marketing mix, product mix and know about the green marketing.	K2
5	Gain the knowledge on different bureau of Indian standards and consumer protection rights.	K2
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create		

Course Title: Database Management System Expected Course Outcomes: On the successful completion of the course, student will be able to:			
1	Understand the basic concepts of data system, operational data and storage structures of the data	K2	
2	Understand the relation approach and its key relation algebra.	K1	
3	Aware about embedded SQL.	K2	
4	To gain knowledge on hierarchical approach for knowing the detailed description of the data.	K2	
5	Aware about embedded SQL.	K3	
]	K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create		

Course Title: Cost Accounting Expected Course Outcomes: On the successful completion of the course, student will be able to:		
2	Gain the knowledge on different types of material controls.	К3
3	Know the system of labour wage payment, labour turnover and classification of overhead.	K2
4	Gain the knowledge on different types of process costing.	K2
5	Understand Operating Costing, Contract costing, and Reconciliation of Cost and Financial accounts	K3
K1	- Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6	6 - Create

Course Title: Managerial Economics			
Exp	ected Course Outcomes:		
On the successful completion of the course, student will be able to:			
1	Familiarize the students with the basic concept of managerial economics	K2	
2	Make student understand the demand and supply analysis in business applications	K2	
3	Apply marginal analysis to the firm under different market conditions.	K3	
4	Analyze the causes and consequences of different market conditions.	K4	
5	Familiarize the students with the basic concept of managerial economics	K2	
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create			

Course Title: Computer Applications: Oracle -Practical-II			
Expe	Expected Course Outcomes:		
On th	e successful completion of the course, student will be able to:		
1	Understand the basic concepts computer applications using Oracle for maintaining the database.	K2	
2	Create different databases using access application for developing the business transactions	K5	
3	Gain the knowledge on creating database using oracle.	K2	
4	Gain knowledge on application of oracle statements to extract the particular data base.	K3	
5	Gain the knowledge on developing employees and salary databases using oracle.	K2	
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create			

Course Title: Commercial Law Expected Course Outcomes: Check the various elements related business law and contract K5 1 K2 2 Interpret different types of contract and its features K4 Analyze the mode of performance and discharge of contract 3 Compare and check between rights and duties of indemnity, guarantee, bailor K5 4 and bailee. 5 Analyze the Law of sale of goods and its intricacies. K4 K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create

	Course Title: Management Accounting		
E	Expected Course Outcomes:		
(On the successful completion of the course, student will be able to:		
1	Recall the objectives and scope of management and know the relationship between other managerial accounting.	K1	
2	Analyze the performance of the company using different ratios	K4	
3	Understand the working capital requirements of the company using the format.	К3	
4	To gain knowledge about marginal costing and BEP analysis.	K2	
5	5 Understand about budgeting and budgetary control K3		
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create			

Cou	Course Title: Object Oriented Programme With C++		
Exp	Expected Course Outcomes:		
On	the successful completion of the course, student will be able to:		
1	Compare the different types of languages and find the importance	K2	
	ofobject-oriented programming language		
2	Know and understand the C++ statements and motivate the students	K3	
	tomake use of the statements		
3	Identify the class structure and develop the program.	K2	
4	Develop the program by applying the concept of OOPs	K3	
5	Apply the data file operation technique and evaluate the program in	K3	
	apractical manner		
K1	K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create		

Course Title: Executive Business Communication		
Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1Understand the effectiveness of business communicationK2		
2 To gain the knowledge on creating various forms of letters	K3	
3 Understand the concept on banking and insurance correspondence	K2	
4 To gain knowledge on report writing	K2	
5 To create a resume	K3	
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create		

Cour	Course Title: Computer Applications : Oracle & C++Practical-II		
Exp	Expected Course Outcomes:		
On	On the successful completion of the course, student will be able to:		
1	Create programs by applying class and member functions concept	K3	
2	Develop the programs using member function definition	K3	
3	Apply the concepts of oracle to solve the problems of business	K3	
	enterprises.		
4	Develop the students to use the reusability concepts.	K2	
5	Acquire the knowledge on the application of c++ and to solve the	K2	
	problems.		
K1	K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create		

	Course Title: Banking Theory		
Exp	Expected Course Outcomes:		
On	the successful completion of the course, student will be able to:		
1	Discuss the Basic concepts, functions and Classification of Banking	K1	
	System		
2	Describe the Recent Trends in Banking.	K2	
3	Explain about the Organization structure of Banks and Credit control	K2	
	measures.		
4	Enumerate the Indian Money Market.	K2	
5	Get an insight knowledge on StateBank of India and Commercial Banks.	K2	
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6– Create			

Cou	Course Title: Principles of Management		
Exp	ected Course Outcomes:		
On the successful completion of the course, student will be able to:			
1	Conceptualize the nature and scope of Management process	K1	
2	Understand the Planning and decision-making process.	K2	
3	Enlighten about the organization and organization structure.	K1	
4	Enumerate Theories of motivation and incentives.	K2	
5	Make the students to understand the Co-ordination and control process.	K2	
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create			

Course Title: Company Law Expected Course Outcomes:			
			On
1	Discuss the characteristics of Company and its Formation	K2	
2	Understand about Memorandum and Articles of Association.	K2	
3	Get a detailed knowledge on Prospectus and Kinds of shares and Debentures.	K2	
4	Acquire the knowledge on powers and duties of Director and Secretary	K2	
5	Understand about kinds of meetings .	K2	
K1	- Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6	6 – Create	
Cou	rse Title: Principles of Auditing		
Expe	Expected Course Outcomes:		
On	the successful completion of the course, student will be able to:		
1 U	nderstand about the fundamental concepts Auditing.	K1	
2 G	et a detailed knowledge on internal control in auditing.	K2	
3 A	cquire a detailed knowledge on verification of assets and liabilities.	K3	
4 G	4Gain knowledge about Joint stock companies.K2		
5 U	nderstand about investigation.	K3	
K1	K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create		

Cours	Course Title: Corporate Accounting			
Exp	Expected Course Outcomes:			
On	On the successful completion of the course, student will be able to:			
1	1Understand about the issue of shares of the companies.K2			
2	Get a detailed knowledge on redemption of preference shares.	K2		
3	Acquire a detailed knowledge on preparation of final accounts.	K2		
4	Apply the conceptual knowledge on valuation of goodwill and shares.	K3		
5	5 Understand about liquidation of companies. K2			
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6– Create				

Course Title: E-Commerce Technology		
Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1 Understand the basic concept of E- Commerce and its applications	K1	
2 To gain the knowledge on EDI	K2	
3 Understand security and the web	K2	
4 To gain knowledge on consumer aspects in E-Commerce	K2	
5 To know and apply various digital payment methods	K3	

K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create

Course Title: Software Development With Visual Basic Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	Understand the concept on client and server	K1
2	To gain the knowledge on IDE	K3
3	Understand the concept on user defined data types	K3
4	To gain knowledge on working with controls in VB	K2
5	Understand on data controls	K2
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6– Create		

	Course Title: Computer Applications : VisualBasic - Practical-III		
Exp	Expected Course Outcomes:		
On	On the successful completion of the course, student will be able to:		
1	Understand the basic concepts computer applications using Oracle formaintaining the database.	K2	
2	Create different databases using access application for developing thebusiness transactions	K4	
3	Gain the knowledge on creating database using oracle.	K2	
4	Gain knowledge on application of oracle statements to extract the particular data base.	K4	
5	Gain the knowledge on developing employees and salary databasesusing oracle.	K2	
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create			

	Course Title: Banking and Insurance Law Expected Course Outcomes:		
-	On the successful completion of the course, student will be able to:		
1	Understand the Concepts, functions of banking and relationship between Banker and Customer	K2	
2	Gain knowledge on Negotiable Instruments Act and its kinds	K2	
3	To gain knowledge on functions and principles of Insurance	K1	
4	Gain knowledge on Insurance System and Acts pertaining to it.	K2	
5	Understand the IRDA functioning	K2	
]	K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create		

Cou	rse Title: Computer Applications : Visual Basic& Web designing Prac	tical-III
Exp	ected Course Outcomes:	
On	the successful completion of the course, student will be able to:	
1	Create different databases using vb application for developing	K3
	thebusiness transactions	
2	Gain the knowledge on creating programs using vb.	K2
3	Gain knowledge on application of vb in business enterprises.	K3
4	To gain knowledge on working with web page	K2
5	To apply the frames in web page	K3
K1	- Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K	6 – Create

Cou	rse Title: Internet and Web Designing	
Exp	ected Course Outcomes:	
On	the successful completion of the course, student will be able to:	
1	Learn the functions and uses of internet.	K2
2	Give the knowledge on how to search the web.	K2
3	Learn to know the uses and applications of HTML.	K3
4	Make the students to know how to create link the web.	K2
5	Get a knowledge on how to download and upload the videos.	K3
K1	- Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6	– Create

Course Title: Income Tax Law & Practice Expected Course Outcomes:

Exp	ected Course Outcomes:	
On	the successful completion of the course, student will be able to:	
1	Recall the fundamental concepts of income tax	K1
2	Analyze the income sources on salaries and house property	K3
3	Aware on income from other sources	K4
4	To gain knowledge about capital gains	K2
5	Understand on assessment of individuals and tax liability	K2
K1	- Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6	6 – Create

Exp	se Title: Indirect Taxes ected Course Outcomes: the successful completion of the course, student will be able to:	
1	Recall the fundamental concepts of indirect taxes.	K1
2	Know about the GST concepts.	K2
3	Know about the filing of returns.	К3
4	Gain knowledge about levy and collection of tax.	K2
5	Understand about customs law.	K2
K1	- Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6	6 – Create

Course Title: Cyber Law	
Expected Course Outcomes:	
On the successful completion of the course, student will be able to:	
1 Discuss the concepts of Cyber law and Cyber Space	K1
2 Describe Cyber Security technical aspects.	K2
3 Explain the Evidence Aspects.	K1
4 Understand the Electronic Data Interchange Scenario in India.	K2
5 To gain knowledge on Information Technology Act.	K1
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate	; K6 – Create
Course Title: Business Finance	

Exp	ected Course Outcomes:	
On	the successful completion of the course, student will be able to:	
1	Introduce the concepts of business finance.	K1
2	Understand about the financial plans.	K2
3	Know about the capitalization of the financial sources.	K2
4	Understand about the capital structure.	K2
5	Know about the different sources of finance.	K2
K1	- Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evalua	te; K6 – Create



Department of Commerce



B.Com. – PEOs, PSOs & POs

	Program Educational Objectives (PEOs)
	OM program describe accomplishments that graduates are expected to attain within ven years after graduation
PEO1	Students will able to understand the concepts of commerce.
PEO2	Programme aims to develop comprehensive professional skills which are required for commerce graduates.
PEO3	Students will develop an understanding of various commerce functions such as finance, accounting, financial analysis, project evaluation, and cost accounting
PEO4	Students will be able to prove the proficiency with the ability to engage exams like C.A, C.S and CMA
PEO5	Students can do commerce oriented research and consequence of this, they can become Professors in Colleges and Universities
	Program Specific Outcomes (PSOs)
After the	successful completion of B.COM program, the students are expected to
PSO1	To provide strong base on the course relevant to the area of commerce which helps to choose their career
PSO2	To enhance knowledge and skills among students which built confident to identify their career opportunities in multiple dimensions.
PSO3	Nurture the students in intellectual, personal, interpersonal and social skills with a focus on relevant professional career particularly, to maximize professional growth.
PSO4	Empower the students with necessary competencies and decision making skills to foster the innovative thinking to become an entrepreneur
PSO5	Strengthen the students to become expert in the field of communication with ethical consciousness.
	Program Outcomes (POs)
On succe	ssful completion of the B.COM program
PO1	Build the wide range of knowledge in the areas of accounting concepts and techniques to meet the current and future requirement of the industry.
PO2	Develop the strong knowledge in the areas such as finance, taxation and laws relating to commerce helps to relate the conceptual and analytical skills in the field of auditing, finance etc.
PO3	Inculcate the students to nurture their skills in personal, interpersonal, intellectual and others skills to develop their professional career and growth.
PO4	Disseminate students to develop decision making and problem solving skills to undertake their own venture as a feasible career option.
PO5	Orient and motive the students to develop the needed knowledge in business and academics to develop their employability

	COURSE OUTCOMES FOR B.Com se Title: Principles of Accountancy	
	se Outcomes:	
	e successful completion of the course, student will be able to:	
1	Recalling Accounting Concepts and Conventions and use Accounting rules	K
	torecord business transactions in the form of Journal, Ledger, subsidiary books	
	and	
-	Preparation of Trial Balance.	1
2	Understanding the steps involved in locating errors and prepare them to Understan the preparation of final accounts for sole traders.	d K
3	Outline the concepts of Bills of exchange, Average due date and Account Current	K
4	Examine the concepts of consignment and joint venture.	K
5	Analyze the bank reconciliation statement, Receipts and payments, Income and	K
	expenditure and Balance sheet and accounting for professionals to enhance the knowledge.	
K1	- Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Cre	ate
Cou	rse Title: Business Organization and Office Management	ute
	rse Outcomes:	
On t	he successful completion of the course, student will be able to:	
1	Understanding the concepts of business and its forms of organizations	K1
	involved insole trader, partnership firms, companies and co-operative societies	
	and public	
2	enterprise. Analyzing the business factors which are involved in sources of finance.	V0
2		K2
3	Explaining the functioning of stock exchanges SEBI, DEMAT of shares.	K2
4	Remembering office functions, layout and accommodation.	K1
5	Outlining office equipments and EDP.	K2
K1	- Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Cre	ate
	rse Title : Agriculture Economics of India	
	rse Outcomes:	
On	the successful completion of the course, student will be able to:	
1	Understand the Agricultural Economy of the India and measure the development of agriculture in India	K2
2	Identify the problems and prospects of Indian agriculture and importance of	K2
	greenrevolution.	
3	Study the agricultural marketing, pricing and their effect marketing system	K2
4	Outline the land tenure and land ceiling system in India	K1
5	Understand the role of agricultural banks for rural economic development	K2
K1	- Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Cre	ate
Cour	se title :Financial Accounting	
Cour	se Outcomes:	
On	the successful completion of the course, student will be able to:	
1	Describing the concepts based on depreciation and its methods in	K3
	books of accounts.	
2	Outline about the nature of Investment and Royal excluding Sublease.	K5
3	Identifying the essential characteristics of single entry system.	K2
4	Applying the basic concepts of departmental and branch accounting.	K2
5	Familiarize the procedure relating to hire purchase and installment in books of accounts	K3

Course	title :Principles of Marketing	
	Outcomes:	
On the	e successful completion of the course, student will be able to:	
	Defining the various concepts and terms related to marketing	K1
2	Explaining about various marketing functions	K2
	Understanding terms of consumer behavior and examined about different	K2
	concepts related to consumers.	
	Identifying the marketing mix and its elements	K4
	Understanding different provisions related to trends in emerging markets.	K2
	Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – C	reate
	title :Economic Analysis	
	Outcomes:	
	e successful completion of the course, student will be able to:	LZ O
	Understand The Fundamentals of Micro Economic And Theory Consumer Behaviour	K2
	Learn the concepts of demand and elasticities of demand	K2
	Understand theories of production, cost and revenue concepts	K2
	Analyse the price and output determination under various market structures	K4
	Acquire knowledge on theories of productivity and wages	K2
	Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - C	reate
	title :Higher Financial Accounting	
	Outcomes:	
	ne successful completion of the course, student will be able to:	
1	Understanding the basic concepts of partner and procedures related tocalculation of ratios.	K2
2	Acquiring the principle at the time of retirement in the books of partner	K1
3	Analyzing dissolution and insolvency of firms and individuals.	K4
4	Evaluate the insolvency or loss of individuals or firms.	K5
5	Examine the concepts based on voyage, Human resource and inflation	K4
	accounting.	
K1- F	Remember; K2-Understand; K3-Apply; K4-Analyze; K5-Evaluate; K6-Create	
	title :Commercial Law	
Course	Outcomes:	
•		
	ssing the various elements related business law and contract	K5
	preting different type of contract and its features	K2
	ain about the agency system related to creation and termination of agency	K5
	pare between rights and duties of indemnity, guarantee	K5
	nine the distinct between sale and agreement to sell and its features	K4
	Remember; K2-Understand; K3-Apply; K4-Analyze; K5-Evaluate; K6-Create	
	e title: Principles of Management	
	e Outcomes:	
On th	ne successful completion of the course, student will be able to:	
1	Explaining the concepts based on management and its features	K2
2	Summarizing the principles and importance of planning	K2
3	Interpreting various concepts based on organization and its element	K2
4	Examining the determinant so behavior and motivation theories	K4
5	Understanding the need and techniques of communication in management	K2

Cou	urse title: Mathematics for Business	
	irse Outcomes:	
	the successful completion of the course, student will be able to:	
1	Understand the basic concepts of arithmetic and geometric series and different effective rates of interest for sinking fund, annuity and present	K2
2	value. Recall the basic concepts of addition and multiplication	K1
2	analysis and input and output analysis.	17.0
3	Explain of variables, constants and functions and evaluate the firstand second order derivatives.	K2
4	Interpret integral calculus and determining definite and indefinite functions.	K2
5	Analyze the linear programming problem by using graphical solution and simple method.	K4
	- Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Curse title: Business Application Software I	reate
	irse Outcomes:	
	the successful completion of the course, student will be able to:	
1	To know the basics on MS Word	K2
2		K2 K2
	, , , , , , , , , , , , , , , , , , , ,	
3		K2
4		K2
5		K2
	-Remember; K2 -Understand; K3 -Apply; K4 -Analyze; K5 -Evaluate; K6 -Create	
	urse title : Corporate Accounting I	
	arse Outcomes:	
On	the successful completion of the course, student will be able to:	
1	Explaining about the basic provisions towards issue of shares in market	K2
2	Understanding the concepts of debenture and its accounting	K2
3	Analyze the companies final accounts and Managerial Remuneration	K4
4	Estimating methods of goodwill and shares	K5
5	Examine various procedures related to liquidation of companies	K4
K 1	-Remember; K2 -Understand; K3 -Apply; K4 -Analyze; K5 -Evaluate; K6 -Create	
Со	urse title :Computer Applications in Business	
	urse Outcomes:	
Ο	n the successful completion of the course, student will be able to:	
	Recall the various concepts relating to computer and its various parts	K1
	2 Understand the meaning of software's, operating systematic	K2
	3 Understanding the meaning and utility of database management system	K2
	4 Evaluate the various aspects of management information system	K5
	5 Generating more ideas regarding the use of internet for business purpose	K6
	Cenerating more ideas regarding the use of internet for business purpose	
1	Recall various terms of computer and its part	K1
2	Understand the meaning of software, operating system, programming language and its features	K2
3	Comparing Data Vs Information and its management system	K2
4	Understanding about various concepts of management information system	K2
5	Explain about networking and elements based on internet	K2
	1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create	1

	rse title: Company Law and Secretarial Practice		
	rse Outcomes:		
On	the successful completion of the course, student will be able to:		
1	Define the fundamentals of corporate law	K1	
2	Identify the role, responsibilities, appointment and liabilities of corporate directors	K2	
3	Analyzing various winding up procedures, regulations and formalities unclaw	ler K4	
4	Examine the role of corporate secretary ship and specific conditions	K4	-
5	Outline corporate level meetings with regard to duties of company secretary, drafting correspondence, Notice, Agenda and Minutes	K2	,
K1-	Remember; K2 -Understand; K3 -Apply; K4 -Analyze; K5 -Evaluate; K6 -Create		-
Exec	cutive Business Communication		
	rse Outcomes:		
On	the successful completion of the course, student will be able to:		
1	Outline the importance of effective business communication	K2	
2	Understand the intricacies of responding to business related queries	K2	
3	Categorizing effective correspondence with banks, insurance and agencies	K3	
4	Examine effective response to company secretarial correspondence	K4	
5	Analyze new innovative and effective ideas for business communication	K4	<u>}</u>
	Remember; K2 -Understand; K3 -Apply; K4 -Analyze; K5 -Evaluate; K6 -Create		
	rse title :Statistics for Business		
	rse Outcomes: the successful completion of the course, student will be able to:		
1	Understand the basic concepts of arithmetic and geometric mean	K2	
1	and different types of data collection.	K2	
2	Recall measures of dispersion.	K1	
3	Execute correlation and regression analysis.	K1 K3	
4	Understand the different types of moving averages.	<u>K2</u>	
5	Analyze interpolation and probability	K4	
	Remember; K2 -Understand; K3 -Apply; K4 -Analyze; K5 -Evaluate; K6 -Create		
	rse title: Corporate Accounting-II		
	rse Outcomes:		
On	the successful completion of the course, student will be able to:		
1	Recall various concepts and methods of preparing accounts under mergers and acquisitions	K1	Ĺ
2	Understand various methods of preparing holding company accounts	K2	
3	Understand various methods of preparing and assessing final accounts of banking companies	K2	
4	Analyze the final accounts of insurance companies	K4	
5	Analyze the accounting statements of electricity companies	K4	1
K1-	Remember; K2 -Understand; K3 -Apply; K4 -Analyze; K5 -Evaluate; K6 -Create		
Cou	rse title: Banking Theory Law and Practices		
	rse Outcomes:		
	the successful completion of the course, student will be able to:		
1	Remembering the various terms and concepts used in banking industry	K	.1
2	Understanding the various process and activities of accounts in banks	K	2
3	Outline various features of cheques for easy and simple banking	K	
4	Examine the various loans and advance related process in banks	K	
5	Classifying various kind of documents involved in banking services	K	2
K1	-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create		

Co	Irse title: Cost Accounting Irse Outcomes:	
	the successful completion of the course, student will be able to:	
1	Recall various concepts of costing and costing methods	K1
2	Analyze the various elements of costing	K4
3	Explain the labour wage payment system	K2
4	Outline the cost under process costing system	K2
5	Examine about operational costing, contract costing and Reconciliation of	K4
	Cost and Financial Statements.	
K1	Cost and Financial Statements. -Remember; K2 -Understand; K3 -Apply; K4 -Analyze; K5 -Evaluate; K6 -Create	
	-Remember; K2 -Understand; K3 -Apply; K4 -Analyze; K5 -Evaluate; K6 -Create	
Cou	-Remember; K2 -Understand; K3 -Apply; K4 -Analyze; K5 -Evaluate; K6 -Create rse title: Income Tax Law and Practices	
Cou Cou	-Remember; K2 -Understand; K3 -Apply; K4 -Analyze; K5 -Evaluate; K6 -Create	
Cou Cou	-Remember; K2 -Understand; K3 -Apply; K4 -Analyze; K5 -Evaluate; K6 -Create rse title: Income Tax Law and Practices rse Outcomes:	K1
Cou Cou On	-Remember; K2 -Understand; K3 -Apply; K4 -Analyze; K5 -Evaluate; K6 -Create rse title: Income Tax Law and Practices rse Outcomes: the successful completion of the course, student will be able to:	K1 K2
Cou Cou On 1	-Remember; K2 -Understand; K3 -Apply; K4 -Analyze; K5 -Evaluate; K6 -Create rse title: Income Tax Law and Practices rse Outcomes: the successful completion of the course, student will be able to: Outline the various terminologies related to income tax	
Cou Cou On 1 2	-Remember; K2 -Understand; K3 -Apply; K4 -Analyze; K5 -Evaluate; K6 -Create rse title: Income Tax Law and Practices rse Outcomes: the successful completion of the course, student will be able to: Outline the various terminologies related to income tax Understand the method of calculating and levying tax	K2
Cou On 1 2 3	-Remember; K2 -Understand; K3 -Apply; K4 -Analyze; K5 -Evaluate; K6 -Create rse title: Income Tax Law and Practices rse Outcomes: the successful completion of the course, student will be able to: Outline the various terminologies related to income tax Understand the method of calculating and levying tax Apply the various tax laws and available provisions in tax computations	K2 K3

Cou	Course Outcomes:		
On	On the successful completion of the course, student will be able to:		
1	Outline various concepts relating to finance	K2	
2	List the various techniques of financial planning	K2	
3	Analyze various sources and forms of finance	K4	
4	Examine the various dimensions of capital market and their components	K4	
5	5 List the capitalization concept and related theories for decision making K4		
K1	K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create		

Cou	Course title: Business Application Software II		
Cou	Course Outcomes:		
On	On the successful completion of the course, student will be able to:		
1	Understand the basic concepts computer applications using MS-PowerPoint	K2	
2	Create and do effective presentation for the business meeting using power point presentation.	K2	
3	Understand the basic concepts computer applications using MS-Access	K2	
4	Generate the data base using MS-Access	K2	
5	Examine the Filtering and Querying Tables	K2	
K1	-Remember; K2 -Understand; K3 -Apply; K4 -Analyze; K5 -Evaluate; K6 -Create		
Co	ourse title: Management Accounting		
Cou	irse Outcomes:		
On	the successful completion of the course, student will be able to:		
1	Outline the various concepts relating to management accounting	K2	
2	Analyze financial statements using ratio analysis	K4	
3	Evaluate the working capital management of companies	K5	
4	Comparing various alternatives using marginal costing and decision making	K2	
5	Analyze new budget and budgetary control for organizations	K4	
K1	-Remember; K2 -Understand; K3 -Apply; K4 -Analyze; K5 -Evaluate; K6 -Create	•	

Course Outcomes: Image: Student will be able to: 1 Define the important concept and rules relating to auditing K1 2 Outline the techniques and applicability of internal audit K2 3 Analyze the valuation of assets and liabilities in business K4 4 Analyze the accounts and auditing of computerized accounts K4 5 Examine about investigation and auditing of computerized accounts K4 K4 Surves Outcomes: On the successful completion of the course, student will be able to: On the successful completion of the course, student will be able to: On the successful completion of the course, student will be able to: On the successful completion of the course, student will be able to: On the successful completion of the course, student will be able to: Outpan= the GST regime with other indirect tax regime in India K1 2 Analyze the concept and applicability of GST in businesses K4 3 Compare the GST regime with other indirect tax laws prior to it K2 4 Illustrate GST system in own business and other prototypes K2 5 Examine the custom law and related duties and ta	Con	urse title: Principles of Auditing		
On the successful completion of the course, student will be able to: I 1 Define the important concept and rules relating to auditing K1 2 Outline the techniques and applicability of internal audit K2 3 Analyze the valuation of assets and liabilities in business K4 4 Analyze the accounts and auditing the joint stock companies K4 5 Examine about investigation and auditing of computerized accounts K4 K1-Remember; K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create Sourse Outcomes: On the successful completion of the course, student will be able to: 1 1 Recall various concepts relating to Indirect tax regime in India K1 2 Analyze the concept and applicability of GST in businesses K4 3 Compare the GST regime with other indirect tax laws prior to it K2 5 Examine the custom law and related duties and taxes K4 K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create Course title : Computer Applications - MSWord And MS Excel and Tally Practical Course title : Completion of the course, student will be able to: 1 Remember the basic concepts computer applications using MS-Office K 4 Applications for the business ransactions. <th colspan="3"></th>				
1 Define the important concept and rules relating to auditing K1 2 Outline the techniques and applicability of internal audit K2 3 Analyze the valuation of assets and liabilities in business K4 4 Analyze the valuation of assets and liabilities in business K4 5 Examine about investigation and auditing of computerized accounts K4 6 Examine about investigation and auditing of computerized accounts K4 7 Examine about investigation and auditing of computerized accounts K4 8 Furtherstant;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create Sourse Outcomes: 9 On the successful completion of the course, student will be able to: 1 1 Recall various concepts relating to Indirect tax regime in India K1 2 Analyze the concept and applicability of GST in businesses K4 3 Compare the GST regime with other indirect tax laws prior to it K2 4 Illustrate GST system in own business and other prototypes K2 5 Examine the custom law and related duties and taxes K4 K1-Remember;K2-Understant;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create Sourse Outcomes: On the successful completion of the course				
3 Analyze the valuation of assets and liabilities in business K4 4 Analyze the accounts and auditing the joint stock companies K4 5 Examine about investigation and auditing of computerized accounts K4 5 Examine about investigation and auditing of computerized accounts K4 6 Examine about investigation and auditing of computerized accounts K4 7 Remember; K2-Understand; K3-Apply; K4-Analyze; K5-Evaluate; K6-Create Course title: Indirect Taxes 2 On the successful completion of the course, student will be able to: 1 1 Recall various concepts relating to Indirect tax regime in India K1 2 Analyze the concept and applicability of GST in businesses K4 3 Compare the GST regime with other indirect tax laws prior to it K2 4 Illustrate GST system in own business and other prototypes K2 5 Examine the custom law and related duties and taxes K4 K1-Remember; K2-Understand; K3-Apply; K4-Analyze; K5-Evaluate; K6-Create Course Outcomes: On the successful completion of the course, student will be able to: 1 1 Remember; K2-Understand; K3-Apply; K4-Analyze; K5-Evaluate; K6-Create 2 2				K1
3 Analyze the valuation of assets and liabilities in business K4 4 Analyze the accounts and auditing the joint stock companies K4 5 Examine about investigation and auditing of computerized accounts K4 5 Examine about investigation and auditing of computerized accounts K4 6 Examine about investigation and auditing of computerized accounts K4 7 Remember; K2-Understand; K3-Apply; K4-Analyze; K5-Evaluate; K6-Create Course title: Indirect Taxes 2 Analyze the concept and applicability of GST in businesses K4 3 Compare the GST regime with other indirect tax laws prior to it K2 4 Illustrate GST system in own business and other prototypes K2 5 Examine the custom law and related duties and taxes K4 K1-Remember; K2-Understand; K3-Apply; K4-Analyze; K5-Evaluate; K6-Create Course Outcomes: On the successful completion of the course, student will be able to: 1 1 Remember; the basic concepts computer applications using MS-Office K 4 Applications for the business and role of entrepreneurship as an economic activity K1 2 Creating and preparing the programmes in Tally package K 4	2			K2
4 Analyze the accounts and auditing the joint stock companies K4 5 Examine about investigation and auditing of computerized accounts K4 K1-Remember; K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create Course Course: On the successful completion of the course, student will be able to: 1 Recall various concepts relating to Indirect tax regime in India K1 2 Analyze the concept and applicability of GST in businesses K4 3 Compare the GST regime with other indirect tax laws prior to it K2 4 Illustrate GST system in own business and other prototypes K2 5 Examine the custom law and related duties and taxes K4 K1-Remember;K2-Understand;K3-Apply:K4-Analyze;K5-Evaluate;K6-Create Course Cutemes: On the successful completion of the course, student will be able to: 1 1 Remember;K2-Understand;K3-Apply:K4-Analyze;K5-Evaluate;K6-Create K4 Course Outcomes: 2 2 Creating and preparing the programmes in Tally package K 4 K1-Remember;K2-Understand;K3-Apply:K4-Analyze;K5-Evaluate;K6-Create Course Utcomes: 2 On the successful completion of the course, student will be able to: 1 Remember;K2-Understand;K3-Apply:K4-Analyze;K5-Evaluate;K6-Creat	3			K4
5 Examine about investigation and auditing of computerized accounts K4 K1-Remember; K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create Course Contents: Course Contents: 0 Inte successful completion of the course, student will be able to: Inte successful completion of the course, student will be able to: 1 Recall various concepts relating to Indirect tax regime in India K1 2 Analyze the concept and applicability of GST in businesses K4 3 Compare the GST regime with other indirect tax laws prior to it K2 4 Illustrate GST system in own business and other prototypes K2 5 Examine the custom law and related duties and taxes K4 K1-Examine the custom law and related duties and taxes Course Concents: Outree title : Computer Applications - MSWord And MIS Excel and Tally Practical Course Outcomes: On the successful completion of the course, student will be able to: 1 Remember; K2-Understand; K3-Apply; K4-Analyze; K5-Evaluate; K6-Create Course Course itile: Entrepreneurial Development Course Course student will be able to: 1 Recall the importance and role of entrepreneurship as an economic activity	4			K4
K1-Remember; K2-Understand; K3-Apply; K4-Analyze; K5-Evaluate; K6-Create Sourse Outcomes: On the successful completion of the course, student will be able to: 1 Recall various concepts relating to Indirect tax regime in India K1 2 Analyze the concept and applicability of GST in businesses K4 3 Compare the GST regime with other indirect tax laws prior to it K2 4 Illustrate GST system in own business and other prototypes K2 5 Examine the custom law and related duties and taxes K4 K1-Remember; K2-Understand; K3-Apply; K4-Analyze; K5-Evaluate; K6-Create Sourse title : Computer Applications - MSWord And MS Excel and Tally Practical Course Outcomes: 0 Nemember the basic concepts computer applications using MS-Office K Applications for the business transactions. 2 2 Creating and preparing the programmes in Tally package K Course Utcomes: 0 Nutle: Entrepreneurial Development K1 Course Utle: Entrepreneurial Development K2 K1 Course Utline the various institutional services to entrepreneur K2 3 Outline the various financial institution available to support entrepreneurs K4 4 Analyze the variou	5			
Course title: Indirect Taxes Course Outcomes: On the successful completion of the course, student will be able to: 1 Recall various concepts relating to Indirect tax regime in India K1 2 Analyze the concept and applicability of GST in businesses K4 3 Compare the GST regime with other indirect tax laws prior to it K2 4 Illustrate GST system in own business and other prototypes K2 5 Examine the custom law and related duties and taxes K4 K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create Course title : Computer Applications - MSWord And MS Excel and Tally Practical Course Outcomes: 0 nthe successful completion of the course, student will be able to: 1 Remember the basic concepts computer applications using MS-Office K Applications for the business transactions. 2 2 2 Creating and preparing the programmes in Tally package K K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create 2 Course title: Entrepreneurial Development 2 Course Outcomes: 1 Recall the importance and role of entrepreneurship as an economic activity K1 2 Explain the various institutional	K1			
Course Outcomes: Image: Course Student will be able to: 1 Recall various concepts relating to Indirect tax regime in India K1 2 Analyze the concept and applicability of GST in businesses K4 3 Compare the GST regime with other indirect tax laws prior to it K2 4 Illustrate GST system in own business and other prototypes K2 5 Examine the custom law and related duties and taxes K4 K4- Course title : Computer Applications - MSWord And MS Excel and Tally Practical Course Outcomes: On the successful completion of the course, student will be able to: 1 Remember; K2-Understand; K3-Apply; K4-Analyze; K5-Evaluate; K6-Create Course Outcomes: 0n the successful completion of the course, student will be able to: 1 Remember; K2-Understand; K3-Apply; K4-Analyze; K5-Evaluate; K6-Create Course Gutcomes: Outcomes: On the successful completion of the course, student will be able to: 1 Recall the importance and role of entrepreneurship as an economic activity K1 2 Creating and preparing the programmes in student will be able to: 1 2 Recall the importance				
1 Recall various concepts relating to Indirect tax regime in India K1 2 Analyze the concept and applicability of GST in businesses K4 3 Compare the GST regime with other indirect tax laws prior to it K2 4 Illustrate GST system in own business and other prototypes K2 5 Examine the custom law and related duties and taxes K4 K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create K4 Course title : Computer Applications - MSWord And MS Excel and Tally Practical Course Outcomes: Ourse title : Computer Applications - MSWord And MS Excel and Tally Practical Course Outcomes: 0 Remember the basic concepts computer applications using MS-Office K Applications for the business transactions. 2 2 2 Creating and preparing the programmes in Tally package K K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create Course Outcomes: On the successful completion of the course, student will be able to: 1 1 Recall the importance and role of entrepreneurship as an economic activity K1 2 Explain the various process of setting up a startup K2 3 Outline the various institutional services to entrepreneu				
2 Analyze the concept and applicability of GST in businesses K4 3 Compare the GST regime with other indirect tax laws prior to it K2 4 Illustrate GST system in own business and other prototypes K2 5 Examine the custom law and related duties and taxes K4 K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create Course Outcomes: On the successful completion of the course, student will be able to: 1 1 Remember the basic concepts computer applications using MS-Office K 2 Creating and preparing the programmes in Tally package K 4 K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create Course Outcomes: 0 On the successful completion of the course, student will be able to: 1 1 Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create 2 Course Outcomes: 0 1 Recall the importance and role of entrepreneurship as an economic activity K1 2 Explain the various institutional services to entrepreneurs K4 3 Outline the various sinstitutional services to entrepreneurs K4 4 Analyze the various financial institution available for entrepreneurs K1	On	the successful completion of the course, student will be able to:		
3 Compare the GST regime with other indirect tax laws prior to it K2 4 Illustrate GST system in own business and other prototypes K2 5 Examine the custom law and related duties and taxes K4 K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create Course outcomes: Course outcomes: On the successful completion of the course, student will be able to: 1 Remember the basic concepts computer applications using MS-Office K 2 Creating and preparing the programmes in Tally package K 4 K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create 2 4 Course outcomes: 2 Creating and preparing the programmes in Tally package K Course outcomes: 4 4 4 Course outcomes: 0 1 Recall the importance and role of entrepreneurship as an economic activity K1 2 Explain the various process of setting up a startup K2 K2 3 Outline the various financial institution available to support entrepreneurs K1 4 Analyze the various subsidies and incentives available for entrepreneurs K1 5 List the various subsidies and incentives available for entrepreneurs	1	Recall various concepts relating to Indirect tax regime in India		K1
4 Illustrate GST system in own business and other prototypes K2 5 Examine the custom law and related duties and taxes K4 K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create K4 Course title : Computer Applications - MSWord And MS Excel and Tally Practical Course Outcomes: On the successful completion of the course, student will be able to: 1 Remember the basic concepts computer applications using MS-Office K Applications for the business transactions. 2 2 Creating and preparing the programmes in Tally package K K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create Course Outcomes: On the successful completion of the course, student will be able to: 1 1 Recall the importance and role of entrepreneurship as an economic activity K1 2 Explain the various institutional services to entrepreneurs K4 3 Outline the various sinacial institution available to support entrepreneurs K1 4 Analyze the various subsidies and incentives available for entrepreneurs K1 5 List the various subsidies and incentives available for entrepreneurs K1 6 List the various subsidies and incentives available for entrepreneurs	2	Analyze the concept and applicability of GST in businesses		K4
5 Examine the custom law and related duties and taxes K4 K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create Course title : Computer Applications - MSWord And MS Excel and Tally Practical Course Outcomes: On the successful completion of the course, student will be able to: 1 Remember the basic concepts computer applications using MS-Office 2 Creating and preparing the programmes in Tally package K 2 Creating and preparing the programmes in Tally package K Course title: Entrepreneurial Development Course title: Entrepreneurial Development Course title: Entrepreneurial Development Course Course Student will be able to: 1 Recall the importance and role of entrepreneurship as an economic activity K1 2 Explain the various process of setting up a startup K2 3 Outline the various financial institutional services to entrepreneurs K1 4 Analyze the various subsidies and incentives available for entrepreneurs K1 5 List the various subsidies and incentives available for entrepreneurs K1 6 List the various subsidies and incentives available for entrepreneurs K1 7 Define the basic concepts of financial market <	3	Compare the GST regime with other indirect tax laws prior to it		K2
K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create Course title : Computer Applications - MSWord And MS Excel and Tally Practical Course Outcomes: On the successful completion of the course, student will be able to: 1 Remember the basic concepts computer applications using MS-Office Applications for the business transactions. 2 Creating and preparing the programmes in Tally package K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create Course title: Entrepreneurial Development Course Outcomes: On the successful completion of the course, student will be able to: 1 Recall the importance and role of entrepreneurship as an economic activity K1 2 Explain the various process of setting up a startup 3 Outline the various institutional services to entrepreneurs 4 Analyze the various financial institution available to support entrepreneurs 5 List the various subsidies and incentives available for entrepreneurs K1 Course title : Financial Markets Course the basic concepts of financial marke	4	Illustrate GST system in own business and other prototypes		K2
Course title : Computer Applications - MSWord And MS Excel and Tally Practical Course Outcomes: On the successful completion of the course, student will be able to: 1 Remember the basic concepts computer applications using MS-Office K Applications for the business transactions. 2 2 Creating and preparing the programmes in Tally package K 4 K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create Course Outcomes: 0 On the successful completion of the course, student will be able to: 1 1 Recall the importance and role of entrepreneurship as an economic activity K1 2 Explain the various process of setting up a startup K2 3 Outline the various institutional services to entrepreneur K2 4 Analyze the various subsidies and incentives available for entrepreneurs K1 K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create Course title : Financial Markets Course title : Financial Markets Course outcomes: K1 Define the basic concepts of financial market K1 1 Define the basic concepts of financial market K1 2 Analyze the working and components of corporate securitie	5	Examine the custom law and related duties and taxes		K4
Course Outcomes: On the successful completion of the course, student will be able to: 1 Remember the basic concepts computer applications using MS-Office K 2 Creating and preparing the programmes in Tally package K 2 Creating and preparing the programmes in Tally package K 4 K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create Course Outcomes: On the successful completion of the course, student will be able to: 1 Recall the importance and role of entrepreneurship as an economic activity K1 2 Explain the various process of setting up a startup K2 K2 3 Outline the various institutional services to entrepreneurship as an economic activity K1 4 Analyze the various financial institution available to support entrepreneurs K4 5 List the various subsidies and incentives available for entrepreneurs K1 K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create Course title :Financial Markets Course title :Financial Markets Course Outcomes: K1 On the successful completion of the course, student will be able to: 1 Define the basic concepts of financial market K1 2 Analyze the working and components of cor	K1-	Remember; K2 -Understand; K3 -Apply; K4 -Analyze; K5 -Evaluate; K6 -Create		
Course Outcomes: On the successful completion of the course, student will be able to: 1 Remember the basic concepts computer applications using MS-Office K 2 Creating and preparing the programmes in Tally package K 2 Creating and preparing the programmes in Tally package K 4 K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create Course Outcomes: On the successful completion of the course, student will be able to: 1 Recall the importance and role of entrepreneurship as an economic activity K1 2 Explain the various process of setting up a startup K2 K2 3 Outline the various institutional services to entrepreneurs K1 4 Analyze the various financial institution available to support entrepreneurs K4 5 List the various subsidies and incentives available for entrepreneurs K1 K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create Course title :Financial Markets Course title :Financial Markets Course title :Financial Markets K1 2 Analyze the working and components of corporate securities market K1 3 Define the basic concepts of financial market K1 4 An	~			
On the successful completion of the course, student will be able to: K 1 Remember the basic concepts computer applications using MS-Office K 2 Creating and preparing the programmes in Tally package K 2 Creating and preparing the programmes in Tally package K 4 K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create Course title: Entrepreneurial Development Course title: Entrepreneurial Development Course Outcomes: 0 0 nthe successful completion of the course, student will be able to: 1 Recall the importance and role of entrepreneurship as an economic activity K1 2 Explain the various process of setting up a startup K2 3 Outline the various institutional services to entrepreneur K2 4 Analyze the various financial institution available to support entrepreneurs K1 5 List the various subsidies and incentives available for entrepreneurs K1 K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create Course title :Financial Markets Course title :Financial Markets Course title :Financial Markets K1 2 Analyze the working and components of corporate securities market K1			ctical	
1 Remember the basic concepts computer applications using MS-Office K 2 Applications for the business transactions. 2 2 Creating and preparing the programmes in Tally package K 4 K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create Course title: Entrepreneurial Development Course Outcomes: 0 nthe successful completion of the course, student will be able to: 1 Recall the importance and role of entrepreneurship as an economic activity K1 2 Explain the various process of setting up a startup K2 3 Outline the various institutional services to entrepreneur K2 4 Analyze the various financial institution available to support entrepreneurs K4 5 List the various subsidies and incentives available for entrepreneurs K1 K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create Course title :Financial Markets Course title :Financial Markets Course Outcomes: K1 1 Define the basic concepts of financial market K1 2 Analyze the working and components of corporate securities market K4 3 Explain the functioning of stock exchanges in India K4 <td></td> <td></td> <td></td> <td></td>				
Applications for the business transactions. 2 Applications for the business transactions. 2 Creating and preparing the programmes in Tally package K K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6–Create Course title: Entrepreneurial Development Course Outcomes: On the successful completion of the course, student will be able to: 1 Recall the importance and role of entrepreneurship as an economic activity 2 Explain the various process of setting up a startup 3 Outline the various institutional services to entrepreneur 4 Analyze the various financial institution available to support entrepreneurs 5 List the various subsidies and incentives available for entrepreneurs K1 K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6–Create Course title :Financial Markets K1 Course Outcomes: K1 On the successful completion of the course, student will be able to: K1 1 Define the basic concepts of financial market K1 2 Analyze the working and components of corporate securities market K4 3 Explain the functioning of stock exchanges in India K4			K	
4 K1-Reference of the course of the course, student will be able to: 1 Recall the various financial institution available for entrepreneurs 4 Analyze the various subsidies and incentives available for entrepreneurs 5 List the various subsidies and incentives available for entrepreneurs K1 K1 K1 K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create Course title :Financial Markets Course Outcomes: On the successful completion of the course, student will be able to: 1 Define the basic concepts of financial market K1 2 Analyze the working and components of corporate securities market K4 3 Expl				
K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create Course title: Entrepreneurial Development Course Outcomes: On the successful completion of the course, student will be able to: 1 Recall the importance and role of entrepreneurship as an economic activity K1 2 Explain the various process of setting up a startup 3 Outline the various institutional services to entrepreneur 4 Analyze the various financial institution available to support entrepreneurs 5 List the various subsidies and incentives available for entrepreneurs K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create Course title :Financial Markets Course Outcomes: 0 The successful completion of the course, student will be able to: 1 Define the basic concepts of financial market 1 Define the working and components of corporate securities market 1 Define the working and components of corporate securities market 2 Analyze the working and components of corporate securities market 3 Explain the functioning of stock exchanges in India	2	Creating and preparing the programmes in Tally package		
Course title: Entrepreneurial Development Course Outcomes: On the successful completion of the course, student will be able to: 1 Recall the importance and role of entrepreneurship as an economic activity 2 Explain the various process of setting up a startup K2 3 Outline the various institutional services to entrepreneur K2 4 Analyze the various financial institution available to support entrepreneurs K4 5 List the various subsidies and incentives available for entrepreneurs K1 K4-Analyze;K5-Evaluate;K6-Create Course title :Financial Markets Course Outcomes: 0 nthe successful completion of the course, student will be able to: 1 Define the basic concepts of financial market K1 2 Analyze the working and components of corporate securities market K4 3 Explain the functioning of stock exchanges in India K4	V1	Domomber: K2 Understand: K2 Apply: K4 Apply: K5 Evaluato: K6 Croate	4	
Course Outcomes: On the successful completion of the course, student will be able to: 1 Recall the importance and role of entrepreneurship as an economic activity 2 Explain the various process of setting up a startup K2 3 Outline the various institutional services to entrepreneur K2 4 Analyze the various financial institution available to support entrepreneurs K4 5 List the various subsidies and incentives available for entrepreneurs K1 K1-K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create Course title :Financial Markets Course Outcomes: 0 Define the basic concepts of financial market K1 2 Analyze the working and components of corporate securities market K4 3 Explain the functioning of stock exchanges in India K4				
On the successful completion of the course, student will be able to: 1 Recall the importance and role of entrepreneurship as an economic activity K1 2 Explain the various process of setting up a startup K2 3 Outline the various institutional services to entrepreneur K2 4 Analyze the various financial institution available to support entrepreneurs K4 5 List the various subsidies and incentives available for entrepreneurs K1 K4-Chalyze;K5-Evaluate;K6-Create Course title :Financial Markets Course Outcomes: 1 Define the basic concepts of financial market K1 2 Analyze the working and components of corporate securities market K4 3 Explain the functioning of stock exchanges in India K4				
2 Explain the various process of setting up a startup K2 3 Outline the various institutional services to entrepreneur K2 4 Analyze the various financial institution available to support entrepreneurs K4 5 List the various subsidies and incentives available for entrepreneurs K1 K1 K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create Course title :Financial Markets Course title :Financial Markets K1 Define the basic concepts of financial market 1 Define the basic concepts of financial market K1 2 Analyze the working and components of corporate securities market K4 3 Explain the functioning of stock exchanges in India K4				
3 Outline the various institutional services to entrepreneur K2 4 Analyze the various financial institution available to support entrepreneurs K4 5 List the various subsidies and incentives available for entrepreneurs K1 K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create Course title :Financial Markets Course Outcomes: 0 the successful completion of the course, student will be able to: 1 Define the basic concepts of financial market K1 2 Analyze the working and components of corporate securities market K4 3 Explain the functioning of stock exchanges in India K4	1	Recall the importance and role of entrepreneurship as an economic activit	y k	K1
3 Outline the various institutional services to entrepreneur K2 4 Analyze the various financial institution available to support entrepreneurs K4 5 List the various subsidies and incentives available for entrepreneurs K1 K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create Course title :Financial Markets Course Outcomes: 0 the successful completion of the course, student will be able to: 1 Define the basic concepts of financial market K1 2 Analyze the working and components of corporate securities market K4 3 Explain the functioning of stock exchanges in India K4	2	Explain the various process of setting up a startup	ŀ	K2
5 List the various subsidies and incentives available for entrepreneurs K1 K1 K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create Course title :Financial Markets Course Outcomes: On the successful completion of the course, student will be able to: 1 Define the basic concepts of financial market K1 2 Analyze the working and components of corporate securities market K4 3 Explain the functioning of stock exchanges in India K4	3	Outline the various institutional services to entrepreneur	ŀ	K2
5 List the various subsidies and incentives available for entrepreneurs K1 K1 K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create Course title :Financial Markets Course Outcomes: On the successful completion of the course, student will be able to: 1 Define the basic concepts of financial market K1 2 Analyze the working and components of corporate securities market K4 3 Explain the functioning of stock exchanges in India K4	4	-	ŀ	K4
K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create Course title :Financial Markets Course Outcomes: On the successful completion of the course, student will be able to: 1 Define the basic concepts of financial market 2 Analyze the working and components of corporate securities market 3 Explain the functioning of stock exchanges in India K4	5			K1
Course title :Financial Markets Course Outcomes: On the successful completion of the course, student will be able to: 1 Define the basic concepts of financial market 2 Analyze the working and components of corporate securities market 3 Explain the functioning of stock exchanges in India K4	K 1	-	I	
On the successful completion of the course, student will be able to:1Define the basic concepts of financial marketK12Analyze the working and components of corporate securities marketK43Explain the functioning of stock exchanges in IndiaK44Explain the role of banks and intermediaries in financial marketK4	Cou	rse title :Financial Markets		
1Define the basic concepts of financial marketK12Analyze the working and components of corporate securities marketK43Explain the functioning of stock exchanges in IndiaK4K4	Course Outcomes:			
2Analyze the working and components of corporate securities marketK43Explain the functioning of stock exchanges in IndiaK44Explain the role of banks and intermediaries in financial marketK4				
3Explain the functioning of stock exchanges in IndiaK4Explain the role of banks and intermediaries in financial marketK4				
Explain the role of banks and intermediaries in financial market KA				
4 Explain the fole of banks and intermediates in financial market				
	4	Explain the role of bunks and intermediates in financial market	174	
5Apply various trends and new modes in financingK3	5	Apply various trends and new modes in financing	K3	
K1-Remember; K2-Understand; K3-Apply;K4-Analyse; K5-Evaluate;K6–Create	K1-	Remember; K2 -Understand; K3 -Apply; K4 -Analyse; K5 -Evaluate; K6 –Create		







B.Sc. COMPUTER SCIENCE – PEOs, PSOs & Pos

Program Educational Objectives (PEOs)				
	The B. Sc. Computer Science program describe accomplishments that graduates are expected to attain within five to seven years after graduation			
PEO1	To enrich knowledge in core areas related to the field of computer science and mathematics.			
PEO2	To provide opportunities for acquiring in-depth knowledge in Industry 4.0/5.0tools and techniques and there by design and implement software projects to meet customer's business objectives.			
PEO3	To enable graduates to pursue higher education leading to Master and Research Degrees or have a successful career in industries associated with Computer Science or as entrepreneurs			
PEO4	To enhance communicative skills and inculcate team spirit through professional activities, skills in handling complex problems in data analysis and research project to make them a better team player.			
PEO5	To embed human values and professional ethics in the young minds and contribute towards nation building.			
PEO9	To develop project			

	Program Specific Outcomes (PSOs)				
After the suc expected to	After the successful completion of B.Sc. Computer Science program, the students are expected to				
PSO1	Impart the fundamental principles and methods of Computer Science to a wide range of applications.				
PSO2 Develop and deploy applications of varying complexity using the acquired knowledge in various programming languages, data structures and algorithm and networking skills.					
PSO3	To investigate, analyze complex problems by the application of suitable mathematical and research tools, to design Information Technology products and solutions				
PSO4	To identify and utilize the state-of-the-art tools and techniques in the design and development of software products and solutions.				
PSO5	Ability to identify, interpret, analyze and design solutions using appropriate algorithms of varying complexities in the field of information and communication technology				

	Program Outcomes		
	(POs)		
On successfu	al completion of the B.Sc. Computer Science program		
PO1	Disciplinary knowledge: Capable to apply the knowledge of mathematics,		
	algorithmic principles and computing fundamentals in the modeling and designof		
	computer-based systems of varying complexity.		
PO2	Scientific reasoning/ Problem analysis: Ability to critically analyze,		
	categorizes, formulate and solve the problems that emerges in the field of computer		
	science.		

Problem solving: Able to provide software solutions for complex scientific and
business-related problems or processes that meet the specified needs with appropriate
consideration for the public health and safety and the cultural,
societal and environmental considerations.
Environment and sustainability: Understand the impact of software solutions
in environmental and societal context and strive for sustainable development.
Modern tool usage: Use contemporary techniques, skills and tools necessary for
integrated solutions.
Ethics: Function effectively with social, cultural and ethical responsibility as an
individual or as a team member with positive attitude.
Cooperation / Team Work: Function effectively as member or leader on
multidisciplinary teams to accomplish a common objective.
Communication Skills: An ability to communicate effectively with diverse types of
audience and also able to prepare and present technical documents to
different groups.
Self-directed and Life-long Learning: Graduates will recognize the need forself-
motivation to engage in lifelong learning to be in par with changing
technology.
Enhance the research culture and uphold the scientific integrity and objectivity

COURSE OUTCOMES FOR B.Sc. COMPUTER SCIENCE

Cours	a Titles Computing Fundamentals and C Dreamming Theory (CS IT DCA)			
Course Title: Computing Fundamentals and C Programming Theory (CS,IT,BCA) Course Outcomes:				
-	the successful completion of the course, student will be able to:			
1	Learn about the Computer fundamentals and the Problem solving	K2		
2	Understand the basic concepts of C programming	K2		
3	Describe the reason why different decision making and loop constructs are	K3		
	available for iteration in C			
4	Demonstrate the concept of User defined functions, Recursions, Scope and Life time of Variables, Structures and Unions	K4		
5	Develop C programs using pointers Arrays and file management	K3		
K1-	Remember; K2-Understand; K3-Apply; K4-Analyze; K5-Evaluate; K6-Create			
	e Title: Computing Fundamentals and C Programming Lab (CS,IT,BCA)			
	e Outcomes:			
On t	the successful completion of the course, student will be able to:			
1	Remember and Understand the logic for a given problem and to generate Prime numbers & Fibonacci Series (Program-1,2,3)	K1, K2		
2	Apply the concepts to print the Magic square, Sorting the data, Strings, Recursive functions and Pointers (Program-4,5,6,8,10)	K2, K3		
3	Remember the logic used in counting the vowels in a sentence (Program-7)	K1		
	Apply and Analyze the concepts of Structures and File management			
4	(Program-9,11,12)	K3&K4		
K1-	Remember; K2-Understand; K3-Apply; K4-Analyze; K5-Evaluate; K6-Create			
Cours	e Title: Digital Fundamentals and Computer Architecture (CS,IT,BCA)			
	e Outcomes:			
	the successful completion of the course, student will be able to:			
1	Learn the basic structure of number system methods like binary, octal and hexadecimal and understand the arithmetic and logical operations are performed by computers.	К3		
2	Define the functions to simplify the Boolean equations using logic gates.	K1		
3	Understand various data transfer techniques in digital computer and control unit operations.	K2		
4	Compare the functions of the memory organization	K4		
5	Analyze architectures and computational designs concept related to architecture organization and addressing modes	K4		
TZ 1				
NI-				
	Remember; K2-Understand; K3-Apply; K4-Analyze; K5-Evaluate; K6-Create			
Cours				
Cours Cours	Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create e Title: C++PROGRAMMING (Theory & LAB) (CS,IT,BCA)			
Cours Cours	Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create Title: C++PROGRAMMING (Theory & LAB) (CS,IT,BCA) The Outcomes:	K1		
Cours Cours On t	Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create e Title: C++PROGRAMMING (Theory & LAB) (CS,IT,BCA) e Outcomes: the successful completion of the course, student will be able to:	K1		
Cours Cours On t	Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create e Title: C++PROGRAMMING (Theory & LAB) (CS,IT,BCA) e Outcomes: the successful completion of the course, student will be able to: Define the different programming paradigm such as procedure oriented and object	K1		
Cours Cours On t	Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create e Title: C++PROGRAMMING (Theory & LAB) (CS,IT,BCA) e Outcomes: the successful completion of the course, student will be able to: Define the different programming paradigm such as procedure oriented and object oriented programming methodology and conceptualize elements ofOO	K1 K2		
Cours Cours On t 1	Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create e Title: C++PROGRAMMING (Theory & LAB) (CS,IT,BCA) e Outcomes: the successful completion of the course, student will be able to: Define the different programming paradigm such as procedure oriented and object oriented programming methodology and conceptualize elements ofOO methodology			
Cours Cours On t 1	Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create e Title: C++PROGRAMMING (Theory & LAB) (CS,IT,BCA) e Outcomes: the successful completion of the course, student will be able to: Define the different programming paradigm such as procedure oriented and object oriented programming methodology and conceptualize elements ofOO methodology Illustrate an model real world objects and map it into programming objects for a Legacy system. Identify the concepts of inheritance and its types and develop applications using			
Cours Cours On t 1 2	Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create e Title: C++PROGRAMMING (Theory & LAB) (CS,IT,BCA) e Outcomes: the successful completion of the course, student will be able to: Define the different programming paradigm such as procedure oriented and object oriented programming methodology and conceptualize elements ofOO methodology Illustrate an model real world objects and map it into programming objects for a Legacy system.	K2		

5	Explain the usage of Files, templates and understand the importance of exception Handling	K5		
K1-	Remember; K2 -Understand; K3 -Apply; K4 -Analyze; K5 -Evaluate; K6 -Create			
Course Title: INTERNET BASIC LAB (CS,IT,BCA)				
Course Outcomes:				
On t	he successful completion of the course, student will be able to:			
1	Understand the fundamentals of Internet and the Web concepts	K2		
2	Explain the usage of internet concepts and analyze its components.	K2		
3	Identify and apply the online information resources	К3		
4	Inspect and utilize the appropriate Google Apps for education effectively	K3, K4		
K1-	Remember; K2 -Understand; K3 -Apply; K4 -Analyze; K5 -Evaluate; K6 -Create			
Cours	e Title: DATA STRUCTURE (CS,IT,BCA)			
Cours	e Outcomes:			
On t	he successful completion of the course, student will be able to:			
1	Understand the basic concepts of data structures and algorithms	K1-K2		
2	Construct and analyze of stack and queue operations with illustrations	K2-K4		
3	Enhance the knowledge of Linked List and dynamic storage management.	K2-K3		
4	Demonstrate the concept of trees and its applications	K2-K3		
5	Design and implement various sorting and searching algorithms for applications and understand the concept of file organizations	K1-K4		
K1-	Remember; K2 -Understand; K3 -Apply; K4 -Analyze; K5 -Evaluate; K6 -Create	- L		
	e Title: JAVA PROGRAMMING Theory (CS,IT,BCA)			
	e Outcomes:			
On t	he successful completion of the course, student will be able to:			
1	The competence and the development of small to medium sized application	K1-K2		
	Programs that demonstrate professionally accept able coding			
2	Demonstrate the concept of object oriented programming through Java	K2-K4		
3	Apply the concept of Inheritance, Modularity, Concurrency, Exceptions handling	K3		
	And data persistence to develop java program			
4	Develop java programs for applets and graphics programming	K3		
5	Understand the fundamental concepts of a WT controls, layouts and event.	K1-K2		
	Remember; K2 -Understand; K3 -Apply; K4 -Analyze; K5 -Evaluate; K6 -Create			
	e Title: JAVA PROGRAMMING LAB (CS,IT,BCA)			
	e Outcomes:			
	he successful completion of the course, student will be able to:			
1	Understand the basic concepts of Java Programming with emphasis on ethics and principles of professional coding	K1, K2		
2	Demonstrate the creation of objects, classes and methods and the concepts of constructor, methods overloading, Arrays, branching and looping	K2		
3	Create data files and Design a page using AWT controls and Mouse Events in Java programming Implement the concepts of code reusability and debugging.	K2, K3		
4	Develop applications using Strings, Interfaces and Packages and applets	K3		
5	Construct Java programs using Multithreaded Programming and Exception Handling	K3		
K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create				
Course Title: Software Engineering and Software Project Management (CS ONLY)				
Cours	e Outcomes:			

On the successful completion of the course, student will be able to:			
1	Understand the basic concepts of software engineering	K1	
2	Apply the software engineering models in developing software applications	K2-K3	
3	Implement the object oriented design in various projects	K4	
4	Knowledge on how to do a software project within-depth analysis.	K3	
5	ToinculcateknowledgeonSoftwareengineeringconceptsinturngivesaroad map	K1-K4	
	to design a new software project.		
	Remember; K2-Understand; K3-Apply; K4-Analyze; K5-Evaluate; K6-Create		
	e Title: Lab–Software ProjectManagement		
	e Outcomes:		
On	the successfulcompletion of the course, studentwill beable to:		
1	Understand the basic concepts of Internet, WWW, browsers and Email and protocols	K1	
2	Understand and apply the HTML, HTML elements and formatting styles	K1- K3	
3	Knowledge on creating tables, forms and DHTML	K3	
4	Understand the structure of XML document, DTD and Schema	K1- K3	
5	Knowledge on working with SML, Style sheet sand XSL	K1- K4	
K1-	Remember; K2 -Understand; K3 -Apply; K4 -Analyze; K5 -Evaluate; K6 -Create		
Cours	e Title: System Software and Operating Systems		
Cours	e Outcomes:		
Ont	hesuccessful completionofthecourse, student willbe ableto:		
1	Know the program generation and program execution activities in detail	K1	
2	Understand the concepts of Macro Expansions and Gain the knowledge of Editing	K2-K3	
	Processes		
3	Remember the basicconcepts of operating system	K1	
4	Understand the conceptslike interrupts, dead lock, memory management and file	K2	
	management		
5	Analyze the need for scheduling algorithms and implement different	K1-K4	
	Algorithms		
	usedforrepresentation, scheduling, and allocation in DOS and UNIX operating system.		
K1-	Remember; K2 -Understand; K3 -Apply; K4 -Analyze; K5 -Evaluate; K6 -Create		
	e Title: Linux and Shell Programming		
	e Outcomes:		
On	the successfulcompletion of the course, studentwill beable to:		
1	Describe the architecture and features of Linux Operating System and distinguish it	K1	
	from otherOperatingSystem.		
2	Develop Linux utilities to perform File processing, Directory handling, User	K2-K3	
	Management and display system configuration		
3	Develop shell scripts using pipes, redirection, filters and Pipes	K2	
4	Apply and change the ownership and file permissions using advance Unix commands.	K3	
5	BuildRegularexpressiontoperformpatternmatchingusingutilities And implement shellscriptsfor realtime applications.	K3-K6	
K 1	Remember; K2 -Understand; K3 -Apply; K4 -Analyze; K5 -Evaluate; K6 -Create		

AUE	se Title: RDBMS & Oracle se Outcomes:	
	the successful completion of the course, student will beable to:	
1	-	K1-K2
1	UnderstandthebasicconceptsofRelationalDataModel,Entity- Relationship Modelandprocess ofNormalization	N1-N
2	Understand and construct database using Structured Query Language	K1-K3
2	(SQL) inOracle9ienvironment.	131-13,
3	Learn basics of PL/SQL and develop programs using Cursors, Exceptions	K1-K4
5	Procedures and Functions.	
4	Understandandusebuilt-infunctionsandenhancetheknowledgeof	K1-K3
	handling multiple tables	
5	Attain a good practical skill of managing and retrieving of data using	K2-K4
	Data ManipulationLanguage(DML)	
K1	-Remember; K2 -Understand; K3 -Apply; K4 -Analyze; K5 -Evaluate; K6 -Create	
our	se Title: Visual Basic	
our	se Outcomes:	
On	the successful completion of the course, student will beable to:	
1	Demonstrate fundamental skill sinutilizing the tools of a visual environment such	K1
	As command, menus and toolbars.	
2	Implement SDI and MDI applications using forms, dialogs and other types of GUI	K2
	components.	
3	Understand the connectivity between VB with MS-ACCESS database.	K3
4	Implement the methods and techniques to develop projects.	K4
5	Attain a good practicalskill ofmanagingODBC and DataAccess Objects	K2-K
-		1X2-1X
I Z1	Domombor: K2 Understand: K2 Apply: KA Apply: Zo: K5 Evaluato: K6 Croate	
	-Remember; K2 -Understand; K3 -Apply; K4 -Analyze; K5 -Evaluate; K6 -Create	
our	se Title: ProgrammingLab–VB &Oracle	
our our	se Title: ProgrammingLab–VB &Oracle se Outcomes:	
our our On	se Title: ProgrammingLab–VB &Oracle se Outcomes: the successfulcompletion of the course, studentwill beable to:	V1
o ur our On 1	se Title: ProgrammingLab–VB &Oracle se Outcomes: the successfulcompletion of the course, studentwill beable to: Understand theconcepts of Visual Basic.	K1
our our On 1 2	se Title: ProgrammingLab–VB &Oracle se Outcomes: the successful completion of the course, student will beable to: Understand the concepts of Visual Basic. Learn the advantages of Controls in VB	K2
our our On 1 2 3	se Title: ProgrammingLab–VB &Oracle se Outcomes: the successfulcompletion of the course, studentwill beable to: Understand theconcepts of Visual Basic. Learn the advantages of Controls in VB Design and develop the event-driven applications using Visual Basic frame work.	K2 K3
our our On 1 2 3 4	se Title: ProgrammingLab–VB &Oracle se Outcomes: the successful completion of the course, student will beable to: Understand the concepts of Visual Basic. Learn the advantages of Controls in VB Design and develop the event-driven applications using Visual Basic frame work. Apply the knowledge of data base methods.	K2
our our On 1 2 3 4	se Title: ProgrammingLab–VB &Oracle se Outcomes: the successfulcompletion of the course, studentwill beable to: Understand theconcepts of Visual Basic. Learn the advantages of Controls in VB Design and develop the event-driven applications using Visual Basic frame work. Apply the knowledge ofdata base methods. Learn basics of PL/SQL and develop programs using Cursors, Exceptions,	K2 K3 K4
our On 1 2 3 4 5	se Title: ProgrammingLab–VB &Oracle se Outcomes: the successfulcompletion of the course, studentwill beable to: Understand theconcepts of Visual Basic. Learn the advantages of Controls in VB Design and develop the event-driven applications using Visual Basic frame work. Apply the knowledge ofdata base methods. Learn basics of PL/SQL and develop programs using Cursors, Exceptions, Procedure sandFunctions	K2 K3
our our On 1 2 3 4 5 K1	se Title: ProgrammingLab–VB &Oracle se Outcomes: the successfulcompletion of the course, studentwill beable to: Understand theconcepts of Visual Basic. Learn the advantages of Controls in VB Design and develop the event-driven applications using Visual Basic frame work. Apply the knowledge ofdata base methods. Learn basics of PL/SQL and develop programs using Cursors, Exceptions, Procedure sandFunctions –Remember;K2–Understand;K3–Apply;K4–Analyze;K5–Evaluate;K6–Create	K2 K3 K4
our our On 1 2 3 4 5 K1 our	se Title: ProgrammingLab–VB &Oracle se Outcomes: the successfulcompletion of the course, studentwill beable to: Understand theconcepts of Visual Basic. Learn the advantages of Controls in VB Design and develop the event-driven applications using Visual Basic frame work. Apply the knowledge ofdata base methods. Learn basics of PL/SQL and develop programs using Cursors, Exceptions, Procedure sandFunctions –Remember;K2–Understand;K3–Apply;K4–Analyze;K5–Evaluate;K6–Create se Title: Computer Networks	K2 K3 K4
our our On 1 2 3 4 5 K1 our	se Title: ProgrammingLab–VB &Oracle se Outcomes: the successfulcompletion of the course, studentwill beable to: Understand theconcepts of Visual Basic. Learn the advantages of Controls in VB Design and develop the event-driven applications using Visual Basic frame work. Apply the knowledge ofdata base methods. Learn basics of PL/SQL and develop programs using Cursors, Exceptions, Procedure sandFunctions –Remember;K2–Understand;K3–Apply;K4–Analyze;K5–Evaluate;K6–Create se Title: Computer Networks se Outcomes:	K2 K3 K4
our our On 1 2 3 4 5 K1 our On	se Title: ProgrammingLab–VB &Oracle se Outcomes: the successfulcompletion of the course, studentwill beable to: Understand theconcepts of Visual Basic. Learn the advantages of Controls in VB Design and develop the event-driven applications using Visual Basic frame work. Apply the knowledge ofdata base methods. Learn basics of PL/SQL and develop programs using Cursors, Exceptions, Procedure sandFunctions –Remember;K2–Understand;K3–Apply;K4–Analyze;K5–Evaluate;K6–Create se Title: Computer Networks se Outcomes: the successfulcompletion of the course, studentwill beable to:	K2 K3 K4 K6
our our On 1 2 3 4 5 K1 our On	se Title: ProgrammingLab–VB &Oracle se Outcomes: the successfulcompletion of the course, studentwill beable to: Understand theconcepts of Visual Basic. Learn the advantages of Controls in VB Design and develop the event-driven applications using Visual Basic frame work. Apply the knowledge ofdata base methods. Learn basics of PL/SQL and develop programs using Cursors, Exceptions, Procedure sandFunctions –Remember;K2–Understand;K3–Apply;K4–Analyze;K5–Evaluate;K6–Create se Title: Computer Networks se Outcomes: the successfulcompletion of the course, studentwill beable to: Remember the organization of computer networks, factors	K2 K3 K4
our our On 1 2 3 4 5 K1 our On	se Title: ProgrammingLab–VB &Oracle se Outcomes: the successfulcompletion of the course, studentwill beable to: Understand theconcepts of Visual Basic. Learn the advantages of Controls in VB Design and develop the event-driven applications using Visual Basic frame work. Apply the knowledge ofdata base methods. Learn basics of PL/SQL and develop programs using Cursors, Exceptions, Procedure sandFunctions –Remember;K2–Understand;K3–Apply;K4–Analyze;K5–Evaluate;K6–Create se Title: Computer Networks se Outcomes: the successfulcompletion of the course, studentwill beable to: Remember the organization of computer networks, factors influencingcomputer network development and the reasons for having	K2 K3 K4 K6
our our 0n 1 2 3 4 5 K1 0ur 0n 1	se Title: ProgrammingLab–VB &Oracle se Outcomes: the successfulcompletion of the course, studentwill beable to: Understand theconcepts of Visual Basic. Learn the advantages of Controls in VB Design and develop the event-driven applications using Visual Basic frame work. Apply the knowledge ofdata base methods. Learn basics of PL/SQL and develop programs using Cursors, Exceptions, Procedure sandFunctions –Remember;K2–Understand;K3–Apply;K4–Analyze;K5–Evaluate;K6–Create se Title: Computer Networks se Outcomes: the successfulcompletion of the course, studentwill beable to: Remember the organization of computer networks, factors influencingcomputer network development and the reasons for having variety of different types of networks.	K2 K3 K4 K6 K1
our our 0n 1 2 3 4 5 K1 0ur 0n 1	se Title: ProgrammingLab–VB &Oracle se Outcomes: the successfulcompletion of the course, studentwill beable to: Understand theconcepts of Visual Basic. Learn the advantages of Controls in VB Design and develop the event-driven applications using Visual Basic frame work. Apply the knowledge ofdata base methods. Learn basics of PL/SQL and develop programs using Cursors, Exceptions, Procedure sandFunctions -Remember;K2–Understand;K3–Apply;K4–Analyze;K5–Evaluate;K6–Create se Title: Computer Networks se Outcomes: the successfulcompletion of the course, studentwill beable to: Remember the organization of computer networks, factors influencingcomputer network development and the reasons for having variety of different types of networks. Understand Internet structure and can see how standard problems are solved and	K2 K3 K4 K6
our our 0n 1 2 3 4 5 K1 our our our 1 2 2 2 2 2	se Title: ProgrammingLab–VB &Oracle se Outcomes: the successfulcompletion of the course, studentwill beable to: Understand theconcepts of Visual Basic. Learn the advantages of Controls in VB Design and develop the event-driven applications using Visual Basic frame work. Apply the knowledge ofdata base methods. Learn basics of PL/SQL and develop programs using Cursors, Exceptions, Procedure sandFunctions -Remember;K2–Understand;K3–Apply;K4–Analyze;K5–Evaluate;K6–Create se Title: Computer Networks se Outcomes: the successfulcompletion of the course, studentwill beable to: Remember the organization of computer networks, factors influencingcomputer network development and the reasons for having variety of different types of networks. Understand Internet structure and can see how standard problems are solved and The use of cryptographyand network security.	K2 K3 K4 K6 K1 K2
our our 0n 1 2 3 4 5 K1 0ur 0n 1 2	se Title: ProgrammingLab–VB &Oracle se Outcomes: the successfulcompletion of the course, studentwill beable to: Understand theconcepts of Visual Basic. Learn the advantages of Controls in VB Design and develop the event-driven applications using Visual Basic frame work. Apply the knowledge ofdata base methods. Learn basics of PL/SQL and develop programs using Cursors, Exceptions, Procedure sandFunctions -Remember;K2–Understand;K3–Apply;K4–Analyze;K5–Evaluate;K6–Create se Title: Computer Networks se Outcomes: the successfulcompletion of the course, studentwill beable to: Remember the organization of computer networks, factors influencingcomputer network development and the reasons for having variety of different types of networks. Understand Internet structure and can see how standard problems are solved and The use of cryptographyand network security. Apply knowledge of different techniques of error detection and correction to detect	K2 K3 K4 K6 K1
our our 0n 1 2 3 4 5 K1 0ur 0n 1 2 3	se Title: ProgrammingLab–VB &Oracle se Outcomes: the successfulcompletion of the course, studentwill beable to: Understand theconcepts of Visual Basic. Learn the advantages of Controls in VB Design and develop the event-driven applications using Visual Basic frame work. Apply the knowledge ofdata base methods. Learn basics of PL/SQL and develop programs using Cursors, Exceptions, Procedure sandFunctions –Remember;K2–Understand;K3–Apply;K4–Analyze;K5–Evaluate;K6–Create se Title: Computer Networks se Outcomes: the successfulcompletion of the course, studentwill beable to: Remember the organization of computer networks, factors influencingcomputer network development and the reasons for having variety of different types of networks. Understand Internet structure and can see how standard problems are solved and The use of cryptographyand network security. Apply knowledge of different techniques of error detection and correction to detect And solve error bitduring data transmission.	K2 K3 K4 K6 K1 K2 K3
our our 0n 1 2 3 4 5 K1 0ur 0n 1 2 3	se Title: ProgrammingLab–VB &Oracle se Outcomes: the successfulcompletion of the course, studentwill beable to: Understand theconcepts of Visual Basic. Learn the advantages of Controls in VB Design and develop the event-driven applications using Visual Basic frame work. Apply the knowledge ofdata base methods. Learn basics of PL/SQL and develop programs using Cursors, Exceptions, Procedure sandFunctions –Remember;K2–Understand;K3–Apply;K4–Analyze;K5–Evaluate;K6–Create se Title: Computer Networks se Outcomes: the successfulcompletion of the course, studentwill beable to: Remember the organization of computer networks, factors influencingcomputer network development and the reasons for having variety of different types of networks. Understand Internet structure and can see how standard problems are solved and The use of cryptographyand network security. Apply knowledge of different techniques of error detection and correction to detect And solve error bitduring data transmission. Analyzetherequirementsforagivenorganizationalstructureandselectthemost	K2 K3 K4 K6 K1 K2
our our On 1 2 3 4 5 K1 our	se Title: ProgrammingLab–VB &Oracle se Outcomes: the successfulcompletion of the course, studentwill beable to: Understand theconcepts of Visual Basic. Learn the advantages of Controls in VB Design and develop the event-driven applications using Visual Basic frame work. Apply the knowledge ofdata base methods. Learn basics of PL/SQL and develop programs using Cursors, Exceptions, Procedure sandFunctions –Remember;K2–Understand;K3–Apply;K4–Analyze;K5–Evaluate;K6–Create se Title: Computer Networks se Outcomes: the successfulcompletion of the course, studentwill beable to: Remember the organization of computer networks, factors influencingcomputer network development and the reasons for having variety of different types of networks. Understand Internet structure and can see how standard problems are solved and The use of cryptographyand network security. Apply knowledge of different techniques of error detection and correction to detect And solve error bitduring data transmission.	K2 K3 K4 K6 K1 K2 K3 K4
our our 0n 1 2 3 4 5 K1 0ur 0n 1 2 3	se Title: ProgrammingLab–VB &Oracle se Outcomes: the successfulcompletion of the course, studentwill beable to: Understand theconcepts of Visual Basic. Learn the advantages of Controls in VB Design and develop the event-driven applications using Visual Basic frame work. Apply the knowledge ofdata base methods. Learn basics of PL/SQL and develop programs using Cursors, Exceptions, Procedure sandFunctions –Remember;K2–Understand;K3–Apply;K4–Analyze;K5–Evaluate;K6–Create se Title: Computer Networks se Outcomes: the successfulcompletion of the course, studentwill beable to: Remember the organization of computer networks, factors influencingcomputer network development and the reasons for having variety of different types of networks. Understand Internet structure and can see how standard problems are solved and The use of cryptographyand network security. Apply knowledge of different techniques of error detection and correction to detect And solve error bitduring data transmission. Analyzetherequirementsforagivenorganizationalstructureandselectthemost	K2 K3 K4 K6 K1 K2 K3
our our 0n 1 2 3 4 5 K1 our our 0n 1 2 3 4 3	se Title: ProgrammingLab–VB &Oracle se Outcomes: the successfulcompletion of the course, studentwill beable to: Understand theconcepts of Visual Basic. Learn the advantages of Controls in VB Design and develop the event-driven applications using Visual Basic frame work. Apply the knowledge ofdata base methods. Learn basics of PL/SQL and develop programs using Cursors, Exceptions, Procedure sandFunctions -Remember;K2–Understand;K3–Apply;K4–Analyze;K5–Evaluate;K6–Create se Title: Computer Networks se Outcomes: the successfulcompletion of the course, studentwill beable to: Remember the organization of computer networks, factors influencingcomputer network development and the reasons for having variety of different types of networks. Understand Internet structure and can see how standard problems are solved and The use of cryptographyand network security. Apply knowledge of different techniques of error detection and correction to detect And solve error bitduring data transmission. Analyzetherequirementsforagivenorganizationalstructureandselectthemost appropriate networking architecture andtechnologies	K2 K3 K4 K6 K1 K2 K3 K4

	Course Title: Software Testing		
Course Outcomes:			
On	On the successful completion of the course, student will beable to:		
1	Explain the basic concepts and the processes that lead to software testing	K2	
2	Design test cases from the given requirements using Black box testing techniques	K3	
3	Identify the testcases fromSource code by means of white boxtesting techniques	K3	
4	Know about useracceptance testing and generatetest cases for it	K4	
5	Examine thetest adequacycriteria to complete the testing process	K4	
	Remember; K2-Understand; K3-Apply; K4-Analyze; K5-Evaluate; K6-Create		
	se Title: Graphics & Multimedia		
	se Outcomes:		
	the successful completion of the course, student will beable to:	170	
1	Explain applications, principles, commonly used and techniques of computer graphics and algorithms for Line-Drawing, Circle-Generating and Ellipse-Generating.	K2	
2	Students will get the concepts of 2D and 3D, Viewing, Curves and surfaces, Hidden Line/surface elimination techniques	К3	
3	Studies concepts of Multimedia Systems, Text, Audio and Video tools	К3	
4	Compressing audio and video using MPEG-1 and MPEG-2	K4	
5	Creates Animation with special effects using algorithms	K6	
K1-	Remember; K2 -Understand; K3 -Apply; K4 -Analyze; K5 -Evaluate; K6 -Create		
	se Title: Project Work Lab		
	se Outcomes:		
On	the successful completion of the course, student will beable to:		
1	Formulate a real world problem and develop its requirements develop a design solution for a setofrequirements.	K3	
2	Test and valid ate the conform an of the developed proto type against the original requirements of the problem.	К5	
3	Work as a responsible member and possibly a leader of at a in developing software solutions.	К3	
4	Expresstechnicalideas, strategies and methodologies in written form. Self-learn new tools, algorithms and techniques that contribute to the software solution of the project.	K1-K4	
5	Generate alternative solutions, compare themand select the optimum one.	K6	
	Remember; K2 -Understand; K3 -Apply; K4 -Analyze; K5 -Evaluate; K6 -Create		
	se Title: Programming Lab – Graphics & Multimedia		
	Course Outcomes:		
On	the successfulcompletion of the course, studentwill beable to:		
1	Understand the basic concepts of computer graphics.	K1	
2	Designs can conversion problems using C and C++ programming.	K2	
3	Apply clipping and filling techniquesfor modifying an object.	K3	
4	Understand theconcepts of different type of geometric transformation of object sin2D.	K4	
5	Understandanddevelopthepracticalimplementationofmodeling,rendering, viewing of objects in 2D	K6	
	K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create K2	2	

Course	e Title: Data Mining	
	e Outcomes:	
On the successful completion of the course, student will beable to:		
1	Identify data mining tools and techniques in building intelligent machines	K1-K2
	understand	
2	Analyze various datamining algorithmsin applyingin realtime applications.	K2-K4
3	Demonstrate the data mining algorithms to combinatorial optimization problems	K2-K3
4	Illustrate the mining techniques like association, classification and clustering on	K2-K3
	Transactional databases.	
5	Perform exploratory analysis of the data tobe used for mining.	K3-K6
	Remember; K2 -Understand; K3 -Apply; K4 -Analyze; K5 -Evaluate; K6 -Create	
	e Title: ProgrammingLab– Software Testing lab - 4	
	e Outcomes:	
On t	ne successfulcompletion of the course, studentwill beable to:	
1	Understand the importance of software quality/software testing and apply software testingtechniques for information systems development.	K1
2	Generate test cases from software requirements using various test processes for continuous qualityimprovement.	K2
3	Understand flow graphs and apply path testing.	K3
4	Applysoftwaretesting techniquesincommercialenvironmentsandassessthe adequacy of test suitesusing control flow, dataflow and program mutation.	K4
5	Identify the inputs and deliverables of the testing process andwork together as a team in preparing a report	K6
K1-I	Remember; K2 -Understand; K3 -Apply; K4 -Analyze; K5 -Evaluate; K6 -Create	



Department of Information Technology



B.Sc. INFORMATION TECHNOLOGY-PEOs, PSOs & POs

Program Educational Objectives (PEOs)			
The B. Sc. Information Technology program describe accomplishments that graduates are expected to attain			
within five to seven years after graduation			
PEO1	To obtain in-depth knowledge of software and hardware techniques, which provide a compact foundation to pursue continuing education and nurture the talent for innovation and research.		
PEO2	To Engage in the Information Technology related Profession locally and globally by contributing ethically to the competent and professional practices.		
PEO3	To enable Graduates will be skilled in the use of modern tools for critical problem solving and analyzing industrial and societal requirements		
PEO4	To train the graduates in diversified and applied areas with analysis, design and synthesis of data to create novel products and solutions to meet current industrial and societal needs.		
PEO5	To nurture talent in leadership qualities, at levels appropriate to their experience, which addresses issues in a responsive, ethical, and innovative manner.		

Program Specific Outcomes (PSOs) After the successful completion of <u>B.Sc. Information Technology</u> program, the students are expected to Develop an ability to communicate effectively with a range of audiences. Develop written and oral presentations of information technology solutions appropriate for a wide range of audiences. PSO1 Develop and analyze quality computer applications by applying knowledge of software PSO₂ engineering, algorithms, programming, databases and networking. The graduates of the Program will be prepared to achieve their career goals in the software PSO3 industry or pursue higher studies and enhance their professional knowledge. To identify and utilize the state-of-the-art tools and techniques in the design and PSO4 Development of software products and solutions. Practical experience in shipping real world software, using recent industry standard tools and PSO5 collaboration techniques will equip to secure and succeed in IT industry

Program Outcomes (POs) On successful completion of the B.Sc. Information Technology program **Disciplinary knowledge:** Capable to apply the knowledge of mathematics, algorithmic principles and computing fundamentals in the modeling and design of computer based systems **PO1** of varying complexity. Scientific reasoning/ Problem analysis: Ability to critically analyze, categorizes, **PO2** Formulate and solve the problems that emerges in the field of computer science. **Problem solving:** Able to provide software solutions for complex scientific and business related problems or processes that meet the specified needs with appropriate consideration for **PO3** the public health and safety and the cultural, societal and environmental considerations. **Environment and sustainability:** Understand the impact of software solutions PO4 In environmental and societal context and strive for sustainable development. Modern tool usage: Use contemporary techniques, skills and tools necessary for integrated PO5 solutions. Ethics: Function effectively with social, cultural and ethical responsibility as an individual or as a team member with positive attitude. PO6 Cooperation / Team Work: Function effectively as member or leader on PO7 multidisciplinary teams to accomplish a common objective. **Communication Skills:** An ability to communicate effectively with diverse types of audience and also able to prepare and present technical documents to different groups. PO8 Self-directed and Life-long Learning: Graduates will recognize the need for self-motivation **PO**9 to engage in lifelong learning to be in par with changing technology. Enhance the research culture and uphold the scientific integrity and objectivity PO10

	COURSE OUTCOMES FOR B.Sc INFORMATION TECHNOLOGY	
	se Title: Computing Fundamentals and C Programming Theory	
	rse Outcomes:	
	the successful completion of the course, student will be able to:	
1	Learn about the Computer fundamentals and the Problem solving	K2
2	Understand the basic concepts of C programming	K2
3	Describe the reason why different decision making and loop constructs are available for iteration in C	К3
4	Demonstrate the concept of User defined functions, Recursions, Scope and Life time of Variables, Structures and Unions	K4
5	Develop C programs using pointers Arrays and file management	K3
K1	-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create	
	se Title: Computing Fundamentals and C Programming Lab	
Cour	rse Outcomes:	
On	the successful completion of the course, student will be able to:	
1	Remember and Understand the logic for a given problem and to generate Prime numbers & Fibonacci Series (Program-1,2,3)	K1, K2
2	Apply the concepts to print the Magic square, Sorting the data, Strings, Recursive functions and Pointers (Program-4,5,6,8,10)	K2, K3
3	Remember the logic used in counting the vowels in a sentence (Program-7)	K1
4	Apply and Analyze the concepts of Structures and File management (Program-9,11,12)	K3&K4
K1	-Remember; K2 -Understand; K3 -Apply; K4 -Analyze; K5 -Evaluate; K6 -Create	
	se Title: Digital Fundamentals and Computer Architecture	
	rse Outcomes:	
On	the successful completion of the course, student will be able to:	
1	Learn the basic structure of number system methods like binary, octal and hexadecimal and understand the arithmetic and logical operations are performed by computers.	K3
2	Define the functions to simplify the Boolean equations using logic gates.	K1
3	Understand various data transfer techniques in digital computer and control unit operations.	K2
4	Compare the functions of the memory organization	K4
5	Analyze architectures and computational designs concept related to architectureorganization and addressing modes	K4
K1	-Remember; K2 -Understand; K3 -Apply; K4 -Analyze; K5 -Evaluate; K6 -Create	
Cour	rse Title: C++PROGRAMMING (Theory & LAB)	
Cour	rse Outcomes:	
On	the successful completion of the course, student will be able to:	
	Define the different programming paradigm such as procedure oriented and objectoriented programming methodology and conceptualize elements of OO methodology	K1
	Illustrate an model real world objects and map it into programming objects for a Legacy system.	K2
	Identify the concepts of inheritance and its types and develop applications usingOverloading features.	K3
	Discover the usage of pointers with classes	K4
5	Explain the usage of Files, templates and understand theimportance of exception Handling	K5
K1	-Remember; K2 -Understand; K3 -Apply; K4 -Analyze; K5 -Evaluate; K6 -Create	

ou	rse Outcomes:	
O	the successful completion of the course, student will be able to:	
1	Understand the fundamentals of Internet and the Web concepts	K2
2	Explain the usage of internet concepts and analyze its components.	K2
3	Identify and apply the online information resources	K3
4	Inspect and utilize the appropriate Google Apps for education effectively	K3 K4
K	I-Remember; K2-Understand; K3-Apply; K4-Analyze; K5-Evaluate; K6-Create	
ou	se Title: DATA STRUCTURE	
oui	rse Outcomes:	
Or	the successful completion of the course, student will be able to:	
1	Understand the basic concepts of data structures and algorithms	K1-K2
2	Construct and analyze of stack and queue operations with illustrations	K2-K4
3	Enhance the knowledge of Linked List and dynamic storage management.	K2-K3
4	Demonstrate the concept of trees and its applications	K2-K3
5	Design and implement various sorting and searching algorithms for applications and understand the concept of file organizations	K1-K4
K1	-Remember; K2 -Understand; K3 -Apply; K4 -Analyze; K5 -Evaluate; K6 -Create	
	se Title: JAVA PROGRAMMING Theory	
)UI	rse Outcomes:	
Or	the successful completion of the course, student will be able to:	
1	The competence and the development of small to medium sized applicationPrograms that demonstrate professionally accept able coding	K1-K
2	Demonstrate the concept of object oriented programming through Java	K2-K
3	Apply the concept of Inheritance, Modularity, Concurrency, Exceptions handlingAnd data persistence to develop java program	К3
4	Develop java programs for applets and graphics programming	K3
Τ.	Understand the fundamental concepts of a WT controls, layouts and event.	K1-K
5	-Remember: K2-Understand: K3-Apply: K4-Analyze: K5-Evaluate: K6-Create	
5 K 1	-Remember; K2 -Understand; K3 -Apply; K4 -Analyze; K5 -Evaluate; K6 -Create	
5 K1 C(-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create ourse Title: JAVA PROGRAMMING LAB rse Outcomes:	
5 K1 Co	ourse Title: JAVA PROGRAMMING LAB	
5 K1 Co Ou	burse Title: JAVA PROGRAMMING LAB rse Outcomes: the successful completion of the course, student will be able to: Understand the basic concepts of Java Programming with emphasis on	K1, K2
5 K 1 C (0 0 1	burse Title: JAVA PROGRAMMING LAB rse Outcomes: the successful completion of the course, student will be able to: Understand the basic concepts of Java Programming with emphasis on ethics and principles of professional coding Demonstrate the creation of objects, classes and methods and the concepts of	K1, K2 K2
5 K 1 C (D U Or 1 2	burse Title: JAVA PROGRAMMING LAB rse Outcomes: the successful completion of the course, student will be able to: Understand the basic concepts of Java Programming with emphasis on ethics and principles of professional coding	K2
5 K1 Co	burse Title: JAVA PROGRAMMING LAB rse Outcomes: the successful completion of the course, student will be able to: Understand the basic concepts of Java Programming with emphasis on ethics and principles of professional coding Demonstrate the creation of objects, classes and methods and the concepts of constructor, methods overloading, Arrays, branching and looping Create data files and Design a page using AWT controls and Mouse Events in Java	K1, K2 K2 K2, K3 K3

	se Title: Introduction To Web Design And Applications	
	se Outcomes:	
	the successful completion of the course, student will be able to:	
1	Understand the fundamentals of Electronic mail, web page installation and set up	K2
2	Understand the basics of internet, internet congestion, culture and WWW.	K2-K3
3	Understand the world wide web, searching in WWW, telnet and FTP.	K4
4	Knowledge on basics of HTML, HTML tags, tables, frames, CSS and next generation HTML	К3
5	Knowledge on news groups, mailing list, chat rooms and MUDs.	K1-K4
K1	-Remember; K2 -Understand; K3 -Apply; K4 -Analyze; K5 -Evaluate; K6 -Create	
Cour	se Title: System Software and Operating Systems	
Cour	se Outcomes:	
On	the successful completion of the course, student will be able to:	
1	Know the program generation and program execution activities in detail	K1
2	Understand the concepts of Macro Expansions and Gain the knowledge of Editing Processes	K2-K3
3	Remember the basic concepts of operating system	K1
4	Understand the concepts like interrupts, dead lock, memory management and filemanagement	K2
5	Analyze the need for scheduling algorithms and implement different Algorithms used for representation, scheduling, and allocation in DOS and UNIX operating System.	K1-K4
K1	-Remember; K2 -Understand; K3 -Apply; K4 -Analyze; K5 -Evaluate; K6 -Create	
Cour	se Title: Linux and Shell Programming Theory	
	se Outcomes:	
	the successful completion of the course, student will be able to:	1
1	Describe the architecture and features of Linux Operating System and distinguish itfrom other Operating System.	K1
2	Develop Linux utilities to perform File processing, Directory handling, User Management and display system configuration	K2-K3
3	Develop shell scripts using pipes, redirection, filters and Pipes	K2
4	Apply and change the ownership and file permissions using advance Unix commands.	К3
5	Build Regular expression to perform pattern matching using utilities And implement shell scripts for real time applications.	K3-K6
	-Remember; K2 -Understand; K3 -Apply; K4 -Analyze; K5 -Evaluate; K6 -Create	
	se Title: Linux and Shell Programming LAB	
	se Outcomes:	
	the successful completion of the course, student will be able to:	
1	Develop Linux utilities to perform File processing, Directory handling and User Management	K1, K2
2	Understand and develop shell scripts using pipes, redirection, filters, Pipes and display system configuration	K2-K3
	Develop simple shell scripts applicable to file access permission network administration	K3
	Apply and change the ownership and file permissions using advance Unix commands	K4-K5
5	Create shell scripts for real time applications.	K6
K1	-Remember; K2 -Understand; K3 -Apply; K4 -Analyze; K5 -Evaluate; K6 -Create	

process of Normalization Image: Normalization 2 Understand and construct database using Structured Query Language (SQL) inOracle9ienvironment. Image: Normalization 3 Learn basics of PL/SQL and develop programs using Cursors, Exceptions, Procedures and Functions. 4 Understand and use built-in functions and enhance the knowledge of handling multiple tables 5 Attain a good practical skill of managing and retrieving of data usingData Manipulation Language(DML) K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create Course Title: Visual Basic Theory	X6
On the successful completion of the course, student will be able to: K2-I 1 Understand the basics of java script, HTML and XML, programming statements and design web pages. K2-I 2 Understand and apply the XML programming constructs, DTD and develop Applications. K2-I 3 Understand the world wide web, searching in WWW, telnet and FTP. K4 4 Knowledge on basics of HTML, HTML tags, tables, frames, CSS and next generation HTML. K2-I K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create Course Outcomes: On the successful completion of the course, student will be able to: I 1 Understand and construct database using Structured Query Language (SQL) inOracle9ienvironment. K3 2 Understand and use built-in functions and enhance the knowledge ofhandling multiple tables K 4 Understand and use built-in functions and enhance the knowledge ofhandling multiple tables K 5 Attain a good practical skill of managing and retrieving of data usingData Manipulation Language(DML) K 5 Attain a good practical skill of managing and retrieving of data usingData Manipulation Language(DML) K 6 Attain a good practical skill of managing and retrieving of data usingData Manipulation Language(DML) K 7 Attain a good pr	K6 K6 1-K2 1-K3 1-K4 1-K3
1 Understand the basics of java script, HTML and XML, programming statements and design web pages. K2-1 2 Understand and apply the XML programming constructs, DTD and develop Applications. K2-1 3 Understand the world wide web, searching in WWW, telnet and FTP. K4 4 Knowledge on basics of HTML, HTML tags, tables, frames, CSS and next generation HTML. K2-1 K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create Course Outcomes: On the successful completion of the course, student will be able to: 1 1 Understand and construct database using Structured Query Language (SQL) inOracle9ienvironment. K 3 Learn basics of PL/SQL and develop programs using Cursors, Exceptions, Procedures and Functions. K 4 Understand and use built-in functions and enhance the knowledge ofhandling multiple tables K 5 Attain a good practical skill of managing and retrieving of data usingData Manipulation Language(DML) K 5 Attain a good practical skill of managing and retrieving of data usingData Manipulation Language(DML) K 6 Attain a good practical skill of managing and retrieving of data usingData Manipulation Language(DML) K 7 Attain a good practical skill of managing and retrieving of data usingData Manipulation Language(DML) K	K6 K6 1-K2 1-K3 1-K4 1-K3
and design web pages. 1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	K6 K6 1-K2 1-K3 1-K4 1-K3
2 Understand and apply the XML programming constructs, DTD and develop Applications. K2-I 3 Understand the world wide web, searching in WWW, telnet and FTP. K4 4 Knowledge on basics of HTML, HTML tags, tables, frames, CSS and next generation HTML. K2-I K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create Course Title: RDBMS & Oracle Theory Ourse Outcomes: On the successful completion of the course, student will be able to: 1 Understand the basic concepts of Relational Data Model, Entity-Relationship Model and process of Normalization K 2 Understand and construct database using Structured Query Language (SQL) inOracle9ienvironment. K 3 Learn basics of PL/SQL and develop programs using Cursors, Exceptions, Procedures and Functions. K 4 Understand and use built-in functions and enhance the knowledge ofhandling multiple tables K 5 Attain a good practical skill of managing and retrieving of data usingData Manipulation Language(DML) K K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create Course Title: Visual Basic Theory	K6 1-K2 1-K3 1-K4 1-K3
Applications. Inderstand the world wide web, searching in WWW, telnet and FTP. K4 4 Knowledge on basics of HTML, HTML tags, tables, frames, CSS and next generation HTML. K2-I K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create Course Title: RDBMS & Oracle Theory Course Outcomes: On the successful completion of the course, student will be able to: Inderstand the basic concepts of Relational Data Model, Entity-Relationship Model and process of Normalization K 2 Understand and construct database using Structured Query Language (SQL) inOracle9ienvironment. K 3 Learn basics of PL/SQL and develop programs using Cursors, Exceptions, Procedures and Functions. K 4 Understand and use built-in functions and enhance the knowledge ofhandling multiple tables K 5 Attain a good practical skill of managing and retrieving of data usingData Manipulation Language(DML) K K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create Course Title: Visual Basic Theory Course Outcomes: Course Title: Visual Basic Theory K	1-K2 1-K3 1-K4 1-K3
4 Knowledge on basics of HTML, HTML tags, tables, frames, CSS and next generation HTML. K2-1 K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create Course Title: RDBMS & Oracle Theory Course Outcomes: On the successful completion of the course, student will be able to: 1 Understand the basic concepts of Relational Data Model, Entity-Relationship Model and process of Normalization K 2 Understand and construct database using Structured Query Language (SQL) inOracle9ienvironment. K 3 Learn basics of PL/SQL and develop programs using Cursors, Exceptions, Procedures and Functions. K 4 Understand and use built-in functions and enhance the knowledge ofhandling multiple tables K 5 Attain a good practical skill of managing and retrieving of data usingData Manipulation Language(DML) K K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create Course Title: Visual Basic Theory Course Outcomes: K6-Create Course Title: Visual Basic Theory	1-K2 1-K3 1-K4 1-K3
HTML. K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create Course Title: RDBMS & Oracle Theory Course Outcomes: On the successful completion of the course, student will be able to: K1 1 Understand the basic concepts of Relational Data Model, Entity-Relationship Model and process of Normalization K 2 Understand and construct database using Structured Query Language (SQL) inOracle9ienvironment. K 3 Learn basics of PL/SQL and develop programs using Cursors, Exceptions, Procedures and Functions. K 4 Understand and use built-in functions and enhance the knowledge ofhandling multiple tables K 5 Attain a good practical skill of managing and retrieving of data usingData Manipulation Language(DML) K K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create Course Title: Visual Basic Theory Course Outcomes: Course Outcomes: K	1-K2 1-K3 1-K4 1-K3
K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create Course Title: RDBMS & Oracle Theory Course Outcomes: On the successful completion of the course, student will be able to: 1 Understand the basic concepts of Relational Data Model, Entity-Relationship Model and process of Normalization 2 Understand and construct database using Structured Query Language (SQL) inOracle9ienvironment. 3 Learn basics of PL/SQL and develop programs using Cursors, Exceptions, Procedures and Functions. 4 Understand and use built-in functions and enhance the knowledge ofhandling multiple tables 5 Attain a good practical skill of managing and retrieving of data usingData Manipulation Language(DML) K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create Course Title: Visual Basic Theory Course Outcomes:	1-K3 1-K4 1-K3
Course Outcomes: On the successful completion of the course, student will be able to: 1 Understand the basic concepts of Relational Data Model, Entity-Relationship Model and process of Normalization 2 Understand and construct database using Structured Query Language (SQL) inOracle9ienvironment. 3 Learn basics of PL/SQL and develop programs using Cursors, Exceptions, Procedures and Functions. 4 Understand and use built-in functions and enhance the knowledge of handling multiple tables 5 Attain a good practical skill of managing and retrieving of data usingData Manipulation Language(DML) K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create Course Title: Visual Basic Theory Course Outcomes:	1-K3 1-K4 1-K3
On the successful completion of the course, student will be able to: 1 Understand the basic concepts of Relational Data Model, Entity-Relationship Model and process of Normalization K 2 Understand and construct database using Structured Query Language (SQL) inOracle9ienvironment. K 3 Learn basics of PL/SQL and develop programs using Cursors, Exceptions, Procedures and Functions. K 4 Understand and use built-in functions and enhance the knowledge ofhandling multiple tables K 5 Attain a good practical skill of managing and retrieving of data usingData Manipulation Language(DML) K Kurse Title: Visual Basic Theory Course Outcomes:	1-K3 1-K4 1-K3
1 Understand the basic concepts of Relational Data Model, Entity-Relationship Model and process of Normalization K 2 Understand and construct database using Structured Query Language (SQL) inOracle9ienvironment. K 3 Learn basics of PL/SQL and develop programs using Cursors, Exceptions, Procedures and Functions. K 4 Understand and use built-in functions and enhance the knowledge of handling multiple tables K 5 Attain a good practical skill of managing and retrieving of data usingData Manipulation Language(DML) K K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create Course Outcomes:	1-K3 1-K4 1-K3
process of Normalization Image: Second Structured Query Language 2 Understand and construct database using Structured Query Language (SQL) inOracle9ienvironment. K 3 Learn basics of PL/SQL and develop programs using Cursors, Exceptions, Procedures and Functions. 4 Understand and use built-in functions and enhance the knowledge of handling multiple tables 5 Attain a good practical skill of managing and retrieving of data usingData Manipulation Language(DML) K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create Course Title: Visual Basic Theory	1-K3 1-K4 1-K3
(SQL) inOracle9ienvironment. (SQL) inOracle9ienvironment. 3 Learn basics of PL/SQL and develop programs using Cursors, Exceptions, Procedures and Functions. 4 Understand and use built-in functions and enhance the knowledge of handling multiple tables 5 Attain a good practical skill of managing and retrieving of data usingData Manipulation Language(DML) K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create Course Title: Visual Basic Theory	1-K4 1-K3
Functions. Functions. 4 Understand and use built-in functions and enhance the knowledge of handling multiple tables 5 Attain a good practical skill of managing and retrieving of data usingData Manipulation K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create Course Title: Visual Basic Theory Course Outcomes:	1-K3
4 Understand and use built-in functions and enhance the knowledge of handling multiple tables K 5 Attain a good practical skill of managing and retrieving of data usingData Manipulation K anguage(DML) K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create Course Title: Visual Basic Theory Course Outcomes: K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create K6-Create	
Language(DML) K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create Course Title: Visual Basic Theory Course Outcomes:	2-K4
Course Title: Visual Basic Theory Course Outcomes:	
Course Outcomes:	
On the successful completion of the course, student will be able to:	
1Demonstrate fundamental skills in utilizing the tools of a visual environment such As command, menus and toolbars.K1	
2 Implement SDI and MDI applications using forms, dialogs and other types of GUI K2	2
components.	
3 Understand the connectivity between VB with MS-ACCESS database. K3	,
4 Implement the methods and techniques to develop projects. K 4	ŀ
5 Attain a good practical skill of managing ODBC and Data Access Objects K2	2-K4
K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create	
Course Title: Programming Lab–VB &Oracle	
Course Outcomes:	
On the successful completion of the course, student will be able to:	
1Understand the concepts of Visual Basic.K1	
2Learn the advantages of Controls in VBK2	
3 Design and develop the event-driven applications using Visual Basic frame work. K3	
4 Apply the knowledge of data base methods. K4	
5 Learn basics of PL/SQL and develop programs using Cursors, Exceptions, Procedures and Functions K6	_
K1–Remember;K2–Understand;K3–Apply;K4–Analyze;K5–Evaluate;K6–Create	

Cours		
	se Title: ANIMATION TECHNIQUES se Outcomes:	
	the successful completion of the course, student will be able to:	
1	Understand the basics of animation, need of animations, types of animation, techniques of animation and special effects	K2
2	Understand and apply animations in flash, working with time time-line and frame based animations, tween-based animations and layers.	K3
3	Knowledge on working with time-line, frame-based and tween-based animation	K3
4	Understanding the motion caption, software to capture the motion.	K4
5	Apply the animation concepts and concept development to develop or create 3D animated movies	K4-K6
K1	-Remember; K2 -Understand; K3 -Apply; K4 -Analyze; K5 -Evaluate; K6 -Create	
Cour	se Title: Dot Net Programming	
	se Outcomes:	
On	the successful completion of the course, student will be able to:	
1	Understand the basics of .NET framework and the object oriented programming.	K2
2	Understand the procedures, File I/O, Error handling and Message queues.	K3
3	Understand and remember the components in VB.NET IDE, ADO.NET and also the window forms.	К3
4	Understand the HTML server controls, Web controls, Validation controls and state management and tracing.	K4
5	Knowledge on SOAP, building web services and deploying and publishing web services, Finding and consuming web services.	K4
K1	-Remember; K2 -Understand; K3 -Apply; K4 -Analyze; K5 -Evaluate; K6 -Create	
	Course Title: Graphics & Multimedia Theory	
	se Outcomes:	
On	the success ful completion of the course, student will be able to:	
1	Explain applications, principles, commonly used and techniques of computer graphics and algorithms for Line-Drawing, Circle-Generating and Ellipse-Generating.	K2
2	Students will get the concepts of 2D and 3D, Viewing, Curves and surfaces, Hidden Line/surface elimination techniques	К3
3	Studies concepts of Multimedia Systems, Text, Audio and Video tools	K3
4	Compressing audio and video using MPEG-1 and MPEG-2	K4
5	Creates Animation with special effects using algorithms	K6
	-Remember; K2 -Understand; K3 -Apply; K4 -Analyze; K5 -Evaluate; K6 -Create	
	se Title: Programming Lab – Graphics & Multimedia	
	se Outcomes:	
	the successful completion of the course, student will be able to:	
1	Understand the basic concepts of computer graphics.	K1
2	Designs can conversion problems using C and C++ programming.	K2
3	Apply clipping and filling techniques for modifying an object.	K3
4	Understand the concepts of different type of geometric transformation of objectsin2D.	K4
5	Understand and develop the practical implementation of modeling, rendering, viewing of objects in 2D	K6
K1	-Remember; K2-Understand; K3-Apply;K4-Analyze;K5-Evaluate;K6-Create	

	rse Title: Project Work Lab rse Outcomes:	
	the successful completion of the course, student will be able to:	
1	Formulate a real world problem and develop its requirements develop a design	K3
1	solution for a set of requirements.	115
2	Test and validate the conformance of the developed prototype against the original	K5
	requirements of the problem.	-
3	Work as a responsible member and possibly a leader of at a in developing software	K3
	solutions.	
4	Expresstechnicalideas, strategies and methodologies inwritten form. Self-learn	K1-K4
	new tools, algorithms and techniques that contribute to the software	
_	Solution of the project.	
5	Generate alternative solutions, compare them and select the optimum one.	K6
	I-Remember; K2 -Understand; K3 -Apply; K4 -Analyze; K5 -Evaluate; K6 -Create	
	rse Title: PYTHON Programming	
	rse Outcomes:	
Oı	the successful completion of the course, student will be able to:	
1	Remembering the concept of operators, data types, looping statements in Python	K1
2	programming. Understanding the concepts of Input / Output operations in file	K2
2	Applying the concept of functions and exception handling	K2 K3
4	Analyzing the structures of list, tuples and maintaining dictionaries	K4
5	Demonstrate significant experience with python program development environment	K4-K6
-	I-Remember; K2 -Understand; K3 -Apply; K4 -Analyze; K5 -Evaluate; K6 -Create	
	rse Title: Internet of Things (IoT)	
	rse Outcomes:	
	the successful completion of the course, student will be able to:	
	To understand the fundamentals of Internet of Things.	K1
	To know the basics of communication protocols and the designing principles of	K2
	Web connectivity.	
3	To gain the knowledge of Internet connectivity principles	K2-K3
1	Designing and develop smart city in IoT	K2-K3
5	Analyzing and evaluate the data received through sensors in IOT.	K4-K5
K	1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create	•
'ou	rse Title: Lab – DOT NET LAB	
'ou	rse Outcomes:	
O	the successful completion of the course, student will be able to:	
1	Understand the basics of VB.NET and develop windows applications.	K2, K4, K
2	Understand the concept of tree view control and illustrate it the using VB.NET.	K2, K4, K
3	Understand and apply exception handling in VB.NET.	K2, K4, K
4	Understand menu resource and create application using menus	K2, K4, K6
5	Develop database applications in VB.NET.	K2, K4, K6



Department of BBA CA 2022–2023



Program Ec	Program Educational Objectives (PEOs)		
PEO1	Graduates will be capable of making a positive contribution to business, trade and industry in the national and global context in the IT era.		
PEO2	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.		
PEO3	Graduates will have a solid foundation to pursue professional careers and take up higher learning courses such as MBA, MCA, MCM, MMM as well as research.		
PEO4	Graduates with a flair of self-employment will be able to initiate and build upon entrepreneurial ventures or demonstrate entrepreneurship for their employer organizations.		
PEO5	Graduate will recognize the need for adapting to change and have the aptitude and ability to engage in independent and life – long learning in the broadest context of socio-economic, technological and global change.		

Program Spec	cific Outcomes (PSOs)
PSO 1 :	Understand of the corporate world
PSO 2 :	Analyse the theoretical knowledge with the practical aspects of Organizational setting and techniques or management.
PSO 3 :	Determine conceptual and analytical abilities required for effective decision making.
PSO 4 :	Understand the dynamic and complex working environment of Business.
PSO 5 :	Understand the problems faced by the business sector in the Current scenario.
PSO 6 :	Analyse the ups and downs of the stock market.
PSO 7 :	Understand the rapid changes of financial services include banking and insurance sectors.
PSO 8 :	Understand the micro and macro marketing environment.
PSO 9 :	Understand the international trade procedure and documentation.
PSO 10 :	Understand the Forms of business organization.
PSO 11 :	Understand the business correspondence and communication.
PSO 12 :	Determine the organizational behaviour and its conflict.

BBA CA – PEOs, PSOs & POs

Program Out	comes (POs)
	Develop the knowledge, skill and attitude to creatively and systematically apply the principles and practices of management, accountancy, finance, business law,
PO1	statistics, HR, operations and IT to management problems and work effectively in modern day business and non-business organizations.
	Develop fundamental in-depth knowledge and understanding of the principles,
PO2	concepts, values, substantive rules and development of the core areas of business such as finance, accounting, marketing, HR, operations along with the tools such as Tally, MS Excel, MS Office, etc.
	Demonstrate the critical thinking mindset and the ability to identify and
DOJ	formulate research problems, research literature, design tools, analyze and
PO3	interpret data, and synthesize the information to provide valid conclusions
	and contextual approaches across a variety of subject matter.
	Exhibit self-confidence and awareness of general issues prevailing in the society
	and communicate effectively with the accounting, commerce, management,
PO4	business, professional fraternity and with society at large through digital and
101	non-digital mediums and using a variety of modes such
	as effective reports & documentation, effective presentations, and give and
	receive clear instructions.
PO5	Function effectively as an individual and as a member or leader in teams, and in
PUS	multidisciplinary settings by demonstrating life skills, coping skills and human values.
PO6	Analyse the sampling techniques of collecting primary and secondary data and
POo	tools and techniques of data.
	Understand the methods of collecting primary and secondary data. Construction
PO7	of scaling techniques and Determine the steps involved in design of
10/	questionnaire.
	Analyse and preparation of project report for the Functional areas of research.
DOG	Determine the functional areas of management such as Production, purchasing,
PO8	marketing, sales, advertising, finance, human resource system, Industry
	4.0Understand the SERQUAL of the various service industries.
PO9	Analyse the various aspect of business research in the area of marketing, human resource and Finance.
	Analyse the various financial and accounting concept including Balance sheet,
PO10	trial balance, etc.,

COURSE OUTCOMES FOR BBA CA

Cour	Course Title : PRINCIPLES OF MANAGEMENT		
Expected Course Outcomes:			
On the successful completion of the course, student will be able to:			
1	Examine and explain the management evolution and how it will affect future	K1	
	managers.		
2	Estimate the conceptual framework of planning and decision-making in day to day life.	K2	
3	Explain the various managerial functions to achieve the goals and objectives of the organization.	K1	
4	Analyze the theories of motivation, leadership and communication in a variety of circumstances and management practices in organizations.	K4	
5	Identify and explain the importance of the management process and identify some of the key skills required for the contemporary management practice.	К3	
	Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Crea	te	
-	se Title : BASICS OF BUSINESS & BUSINESS ENVIRONMENT		
_	ected Course Outcomes:		
	he successful completion of the course, student will be able to:		
	velop an understanding on the gamut of business activities	K2	
Exp	plain the intricacies in starting a business and knowing the suited business form	K2	
Des	sign a business model in order to analyze its sustainability	K3	
	mprehend the environmental factors that are conducive /detrimental to the pective businesses	K4	
	ve a simple and basic comprehension of the international scenario with regard to derless business world	K5	
K1 -	Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Crea	te	
Cour	rse Title : MATHEMATICS AND STATISTICS FOR MANAGEMENT		
Exp	ected Course Outcomes:		
On ti	he successful completion of the course, student will be able to:		
1	Solve systems of linear equations by use of the matrix	K3	
2	Be able to find the nature (maximum and minimum) of a turning point	K5	
3	Outline the meaning of marginal revenue and marginal cost and their relevance for firm's profitability.	K1	
4	Understand and compute the sampling distributions, sampling distributions of means and variances (S2) and the t- and F-distributions	K1	
5	Summarize a regression analysis, and compute and interpret the coefficient of correlation.	K2	
K1 -	Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Cre	ate	
	Course Title : ORGANISATIONAL BEHAVIOUR		
Expected Course Outcomes:			
On the successful completion of the course, student will be able to:			
1	Analyze the individual and group behavior; and understand the implications of	17.4	
	organizational behaviour on the process of management	K4	

2	Identify various theories of motivation from the past and to evaluate motivational	К5
	strategies used in a variety of organizational settings	I
3	Enhance productivity of the organization by ensuring required job satisfaction and	K3
	employee attitude.	N J
4	Understand the supervisory effects on performance and to train supervisors by	K2
	understanding different supervision styles.	112
5	Evaluate the appropriateness of various leadership styles and counseling methods	K5
K1 ·	- Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Crea	ite
Cou	rse Title : ECONOMICS FOR EXECUTIVES	
Exp	ected Course Outcomes:	
On t	he successful completion of the course, student will be able to:	
Ap	ply the objectives of business firms, demand analysis and elasticity of	K6
-	nand in daily life and in their career.	
	ntify the effective applications of factors of production and BEP Analysis	K3
	derstand the determination of the Price, Market structure and competition.	K2
	-	
	scribe the objectives and effectiveness of monetary policy and fiscal policy	K4
	ain Knowledge on Inflation, Deflation and effects of inflation.	K5
	- Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Crea	ite
	rse Title : QUANTITATIVE TECHNIQUES FOR MANAGEMENT	
Exp	ected Course Outcomes:	
On t	he successful completion of the course, student will be able to:	
1	Define and formulate linear programming problems and evaluate their applications	K1
2	To understand concepts and terminology of Linear Programming from formulation of mathematical models to their optimization using Simplex Method	K1
3	To comprehend the concept of a Transportation Model and develop the initial	
	solution and optimality checking of the solution	K2
4	To apply the strategies of game theory and to make better decisions while solving business problems	K3
5	Use critical path analysis and programming evaluation and review	
	techniques for timely project scheduling and completion.	K3
K1 -	- Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Crea	ite
	urse Title : FINANCIAL ACCOUNTING	
	pected Course Outcomes:	
	the successful completion of the course, student will be able to:	
1	Recall the accounting concepts and understand the rules of double entry system, journalizing and posting to ledger in the business transactions.	K1
2	Interpret the trial balance; identify the errors and to reconcile the bank statement by cash book.	K2
3	Summaries the manufacturing, trading, profit & loss account and balance sheet with the support of financial and accounting transactions.	K5
4	Illustrate the accounts for non-trading institutions through income & expenditure, receipts & payments along with the methods of depreciation.	K3
5	Classify the sections of accounting statements from incomplete data	K4
V1	- Remember; K2 - Understand; K3 - Apply; K4 - Analyse; K5 - Evaluate; K6 - Cre	

Cou	urse Title : PRODUCTION AND MATERIALS MANAGEMENT	
_	pected Course Outcomes:	
On	the successful completion of the course, student will be able to:	
1	Enumerate the production processes and production planning and control.	K1
2	Describe the importance of materials management function in an organization, and how it can help in integrating various plans and reduce the material related Costs	K1
3	Describe the material management, domestic and import purchase procedures	K2
4	And vendor rating and development.	T7.4
4	Out line management issues in receiving, stores, traffic and transportation, ware housing and physical distribution	K4,
5	Discuss about the quality control, Total Quality Management, Benchmarking and ISO	K2
K1	Remember; K2 -Understand; K3 -Apply; K4 -Analyze; K5 -Evaluate; K6 -Create	
Co	urse Title : MARKETING MANAGEMENT	
	pected Course Outcomes:	
On	the successful completion of the course, student will be able to:	
1	Recognize the significance of marketing and its role in economic development	K1
2	Recognize how market strategy works, market segmentation and product mix have impact on buying behaviour	K2,
3	To apply marketing concepts, pricing for the development of marketing function.	K3
4	Analyse and perform the functions of marketing in organisation.	K3
5	Demonstrate the critical thinking skills and analyse e-marketing.	K3
K1	- Remember; K2 - Understand; K3 - Apply; K4 - Analyse; K5 - Evaluate; K6 - C	
	urse Title : PC SOFTWARE (MS OFFICE) – PRACTICAL	
	pected Course Outcomes:	
On	the successful completion of the course, student will be able to:	
1	Use Microsoft Office programs to create personal, academic and business documents following current professional and/or industry standards.	K1
2	Create scientific and technical documents incorporating equations, images, tables, and bibliographies.	K2
3	Develop technical and scientific presentations which use charts and visual aids to share data.	K3
4	Build spreadsheets to perform calculations, display data, conduct analysis, and explore.	K4
5	Design and construct databases to store, extract, and analyse scientific and	K5
K1	real-world data. - Remember; K2 - Understand; K3 - Apply; K4 - Analyse; K5 - Evaluate; K6 - C	reate
	rse Title : BUSINESS LAW	Icale
	pected Course Outcomes:	
_	the successful completion of the course, student will be able to:	
1	Develop an understanding on business law in the global context	K1
2	Knowing the relevant legal terms in business	KI K2
3	To construct the relationship of ethics and law in business	K2 K3
4	Applying basic principles of law to business and business transactions	K3 K4
5	Implementing current law, rules and regulations related to settling business	K4 K5
K1·	Disputes Remember; K2 -Understand; K3 -Apply; K4 -Analyze; K5 -Evaluate; K6 – Create	NJ

Cou	rse Title : HUMAN RESOURCE MANAGEMENT		
	Expected Course Outcomes:		
On the successful completion of the course, students will be able to:			
1	Analyze the process of Job analysis and its importance as a foundation of Human resource management practice.	К3	
2	Understand the Human resource planning	K4	
3	Apply the policies and practice of the primary areas of human resource management, including staffing, training and compensation.	К3	
4	Understand the importance of career planning and succession planning	K4	
5	Apply the policies and practice of the primary areas of human resource management, including staffing, training and compensation	K2	
K1-	Remember; K2 -Understand; K3 -Apply; K4 -Analyze; K5 -Evaluate; K6 – Create		
	rse Title : FINANCIAL MANAGEMENT		
_	ected Course Outcomes:		
	he successful completion of the course, students will be able to:		
1	Use business finance terms and concepts while communicating.	K3	
2	Explain the financial concepts used in making financial management decision.	K4	
3	Use effective methods to promote respect and relationship for financial deals.	K3	
4	Utilize information to maximize and manage finance.	K4	
5	Demonstrate a basic understanding of Working Capital Management.	K2	
	Remember; K2 -Understand; K3 -Apply; K4 -Analyze; K5 -Evaluate; K6 – Create		
	Irse Title : FINANCIAL ACCOUNTING PACKAGE TALLY PRACTICAL		
	pected Course Outcomes:		
	the successful completion of the course, students will be able to:		
	Understand basic Accounting concepts and principles	K3	
	Be able to generate Accounting and Inventory Masters, Vouchers and Basic Reports in Tally	K4	
	Understand Advanced Accounting and Inventory in Tally. ERP 9	K3	
4	Have an understanding of Advanced Accounting and Inventory in Tally. ERP 9	K4	
	Understand basic concepts and practical application of VAT, CST, TDS and Service Tax	K2	
	- Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Cre	eate	
	Irse Title : TAXATION LAW AND PRACTICE		
	pected Course Outcomes:		
	the successful completion of the course, student will be able to:		
1	Elucidate an understanding of theoretical and technical knowledge of taxation law principles as they apply through legislation, for both individuals and business entities.	K2	
2	Analyse, generate and transmit solutions to complex problems in relation to taxation matters.	K5	
3	To efficiently compute tax for Business and Profession and knowledge on tax authorities.	К3	
4	To efficiently handle indirect taxes and GST.	K3	
5	To be a potential person on the procedural compliance of tax.	K3	
K1	- Remember; K2 - Understand; K3 - Apply; K4 - Analyse; K5 - Evaluate; K6 - Cre	eate	

Course Title : COST AND MANAGEMENT ACCOUNTING		
Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	Understanding the concept of cost accounting, Recognize the merits and demerits of cost and management accounting along with the elements of cost concepts.	K1
2	Describe the cost sheets for the purpose of stores control through economic order quantity, pricing and material issues.	K2
3	Measure the financial statements through comparative and common size by using various financial ratios.	K5
4	Simplify the fund flow and cash flow statements by calculating funds and cash from operations.	K4
5	Produce various budgets and apply standard costing for material variances; marginal costing for cost volume profit.	K3
K 1	- Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Crea	te
	rse Title : RESEARCH METHODS FOR MANAGEMENT	
	ected Course Outcomes:	
	he successful completion of the course, student will be able to:	
	Understand fundamental concepts of research types and research process.	IZ A
		K2
	Summarize the sampling design and scaling techniques.	K2
ŗ	Construct a method for data collection and able to edit, code, classify and Fabulate the collected data.	K3
4	Analyze the collected data to prove or disprove the hypothesis.	K4
5	Interpret the data and prepare a research report.	K5
K1-1	Remember; K2 - Understand; K3 -Apply; K4 -Analyze; K5 -Evaluate; K6 –Create	
	urse Title : INTERNET AND WEB PAGE DESIGN (Theory)	
	pected Course Outcomes:	
On	the successful completion of the course, student will be able to:	
1	Comfortable creating, coding and posting basic HTML and CSS files to the Internet.	K2
2	Equipped with a historical understanding of the web's evolution	K2
3	Have a foundational knowledge of website creation and apply it to the planning,	
5	design and development of own web page.	K3
4	Create a full functioning website	K4
5	Equipped with key industry-standard design guidelines to ensure strong online presentation.	
K 1	- Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Crea	te
	urse Title : Internet and Web Page Design Programming Labora	tory
	ractical)	
Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	Comfortable creating, coding and posting basic HTML and CSS files to the Internet.	K2
2	Equipped with a historical understanding of the web's evolution	K2
3	Have a foundational knowledge of website creation and apply it to the planning,	K3
4	design and development of own web page.	17.4
4 5	Create a full functioning website Equipped with key industry-standard design guidelines to ensure strong online	K4 K5
	presentation.	
V 1	- Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Crea	te

-	ected Course Outcomes:	
n 1	the successful completion of the course, student will be able to:	
	Define who is an Entrepreneur and what his or her characteristic features are, what	K1
	Skills made them successful and what qualities are required to become an Entrepreneur.	
	Foster the students in the areas of entrepreneurial growth and equip with different	K2
	Entrepreneurial development programmes.	
	Project management is a powerful discipline in the core areas of project lifecycle and	K3
	To know about the roles and responsibilities of a project manager.	
	Discriminate the benefits of delivering the project identification and selecting the	K5
	successfulprojectwiththevariousguidelinesissuedbytheauthorities. Classify the various sources of business finance and identify the different institutions	
	That supporting entrepreneurs.	K4
1.	Remember; K2 -Understand; K3 -Apply; K4 -Analyze; K5 -Evaluate; K6 -Create	
	urse Title : RDBMS AND ORACLE PROGRAMMING	
	pected Course Outcomes:	
_	the successful completion of the course, student will be able to:	
_	Write stored procedures, functions, packages, and triggers, and implement	K3
	complex business rules with oracle	N S
2	Interpret different Queries to access the database.	K2
3	Underline Functional Dependency and Functional Decomposition.	K1
	Apply various Normalization techniques.	
ŀ	Write SQL code based on ANSI/ISO standards to build and maintain database	K3
	structures	
5	Manipulate PL/SQL programming using concept of Cursor Management,	K3
K1	- Remember; K2 - Understands; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - G	Create
	urse Title : RDBMS AND ORACLE PROGRAMMING-PRACTICAL	
	pected Course Outcomes:	
	the successful completion of the course, student will be able to:	
1	Write stored procedures, functions, packages, and triggers, and implement complex business rules with oracle	K3
2	Interpret different Queries to access the database.	K2
3	Underline Functional Dependency and Functional Decomposition.	K1
	Apply various Normalization techniques.	
1	Write SQL code based on ANSI/ISO standards to build and maintain database	K3
	structures	
5	Manipulate PL/SQL programming using concept of Cursor Management,	K3
X1	- Remember; K2 - Understands; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - G	Create
	urse Title : CAMPUS TO CORPORATE	
	pected Course Outcomes:	
	the successful completion of the course, student will be able to:	1
l	Remember the industry expectations	K1
2	Understand the importance of etiquette in organizational culture	K2
3	Able to develop a confidence level and facing interviews	K3
)	Demonstrate a good command in responding to any queries	K4
> 1	Demonstrate a good command in responding to any queries	

Con	Course Title : SOFT SKILLS FOR BUSINESS	
	bected Course Outcomes:	
	the successful completion of the course, student will be able to:	
1	Remember the various organizational entry level skill requirements	K1
2	Understand the need for different skill requirement at different occasions	K2
3	Able to appropriately respond to the situation during recruitment and selection	K3
4	Demonstrate a good command in work environment	K4
5	Achieve the desired result of a good employability	K5,
		K6
K1	- Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Cr	reate
	rse Title : Elective- I : ADVERTISING AND SALES PROMOTION	
	ected Course Outcomes:	
	the successful completion of the course, student will be able to:	1
1	To Identify advertising mediums, both traditional, new and experimental	K1
2	To understand the function of Advertising Agencies	K2
3	To understand the principles of advertising layout and campaign	K3
4	To Learn to use sales promotions to push sales and attract buyers.	K4
5	To Identify advertising mediums, both traditional, new and experimental	K5,
	- Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Cr	eate
	rse Title : Elective- II : INSURANCE PRINCIPLES&PRACTICE	
	ected Course Outcomes:	
	the successful completion of the course, student will be able to:	
1	Examine the risk and relevance involved in insurance industry and to suggest the importance of insurance.	K1
2	Explain the importance of life insurance, terms and conditions of insurance, contract and products.	K2
3	Insight the knowledge of general insurance practice, laws, terms and conditions, claim and procedure of insurance.	K3
4	Differentiate the fire and marine insurance, general insurance, loss and recover. To study the terms and conditions of insurance.	K4
5	To Evaluate other business insurances and practices of Health insurance in Indian climate.	K5
K1	- Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Cr	eate
	rse Title : Elective- III : E-COMMERCE	
	oected Course Outcomes:	
	the successful completion of the course, student will be able to:	
1	To Understand e-commerce models -its benefits and limitations	K2
2	To use of market research tools in analyzing customer buying behavior	K3
3		K4
4	To understand the application of B2B e-commerce model	K2
5	To critically evaluate public policy on privacy and security	K5
K1	- Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Cr	eate



Department of Computer Application



B.C.A – PEOs, PSOs & POs		
0	ucational Objectives (PEOs)	
	ogram describe accomplishments that graduates are expected to attain within years after graduation	
PEO 1	To impart advance knowledge about various sub-domains related to the field of computer applications	
PEO 2	To provide the strong character to uphold the spiritual and cultural values ofour country to make students acceptable to both industries and higher Education.	
PEO 3	Graduates will be capable of attaining higher position in their professional carrier, capable to do quality research by strengthening their mathematical, Scientific and basic engineering fundamentals.	
PEO 4	Graduate will be capable of adopting the changing technologies, tools, and industrial environment.	
PEO 5	Graduates will promote collaborative learning and spirit of team work through Multidisciplinary projects and diverse professional activities.	

Program Specific Outcomes (PSOs)			
After the successful completion of BCA program, the students are expected to			
PSO 1	Develop proficiency in problem solving and logical thinking skill.		
PSO 2	To impart the knowledge of programming languages, web designing, networking and Software development cycle.		
PSO 3	Enrich the communicative ability to present orally throughout all the stages of Software development process		
PSO 4	Learn latest development and technologies in IT and Communications system.		
PSO 5	Implementation of professional engineering solutions for the betterment of society keeping the environmental context in mind, be aware of professional ethics and be able to communicate effectively.		

Program Outcomes (POs)		
On successful completion of the BCA program		
PO1	Disciplinary knowledge: Capable to apply the knowledge of mathematics, Algorithmic principles and computing fundamentals in the modeling and design of computer based systems of varying complexity.	
PO2	Scientific reasoning/ Problem analysis: Ability to critically analyze, categorizes, formulate and solve the problems that emerges in the field of Computer science.	
PO3	Problem solving: Able to provide software solutions for complex scientific and business related problems or processes that meet the specified needs with appropriate consideration for the public health and safety and the cultural, societal and environmental considerations.	
PO4	Environment and sustainability: Understand the impact of software solutions in environmental and societal context and strive for sustainable development.	
PO5	Modern tool usage: Use contemporary techniques, skills and tools necessary for Integrated solutions.	
PO6	Ethics: Function effectively with social, cultural and ethical responsibility as an Individual or as a team member with positive attitude.	
PO7	Cooperation / Team Work: Function effectively as member or leader on Multidisciplinary teams to accomplish a common objective.	
PO8	Communication Skills: An ability to communicate effectively with diverse types of audience and also able to prepare and present technical documents to Different groups.	
PO9	Self-directed and Life-long Learning: Graduates will recognize the need for Self-motivation to engage in lifelong learning to be in par with changing technology.	

COURSE OUTCOMES FOR BCA

Cou	rse Title: Computing Fundamentals and C Programming Theory	
Cou	rse Outcomes:	
Oı	the successful completion of the course, student will be able to:	
1	Learn about the Computer fundamentals and the Problem solving	K2
2	Understand the basic concepts of C programming	K2
3	Describe the reason why different decision making and loop constructs are available for iteration in C	K3
4	Demonstrate the concept of User defined functions, Recursions, Scope and Life time of Variables, Structures and Unions	K4
5	Develop C programs using pointers Arrays and file management	K3
K	I-Remember; K2-Understand; K3-Apply; K4-Analyze; K5-Evaluate; K6-Create	
	ourse Title: Computing Fundamentals and C Programming Lab	
Cou	rse Outcomes:	
Oı	the successful completion of the course, student will be able to:	
1	Remember and Understand the logic for a given problem and to generate Prime numbers & Fibonacci Series (Program-1,2,3)	K1, K2
2	Apply the concepts to print the Magic square, Sorting the data, Strings, Recursive functions and Pointers (Program-4,5,6,8,10)	K2, K3
3	Remember the logic used in counting the vowels in a sentence (Program-7)	K1
4	Apply and Analyze the concepts of Structures and File management (Program-9,11,12)	K3&
V	1 -Remember; K2 -Understand; K3 -Apply; K4 -Analyze; K5 -Evaluate; K6 -Create	K4
	rse Title: Digital Fundamentals and Computer Architecture	
	rse Outcomes:	
	the successful completion of the course, student will be able to:	
1	Learn the basic structure of number system methods like binary, octal and hexadecimal and understand the arithmetic and logical operations are performed by computers.	K3
2	Define the functions to simplify the Boolean equations using logic gates.	K1
3	Understand various data transfer techniques in digital computer and control unit operations.	K2
4	Compare the functions of the memory organization	K2 K4
4 5	Analyze architectures and computational designs concept related to architectureorganization and addressing modes	K4
V	1 -Remember; K2 -Understand; K3 -Apply; K4 -Analyze; K5 -Evaluate; K6 -Create	
	rse Title: C++PROGRAMMING (Theory & LAB) rse Outcomes:	
	the successful completion of the course, student will be able to:	
1	Define the different programming paradigm such as procedure oriented and objectoriented programming methodology and conceptualize elements of OO methodology	K1
2	Illustrate an model real world objects and map it into programming objects for a Legacy system.	K2
3	Identify the concepts of inheritance and its types and develop applications usingOverloading features.	K3
4	Discover the usage of pointers with classes	K4
5	Explain the usage of Files, templates and understand theimportance of exception Handling	K5
2		13

ou	rse Outcomes:	
O	the successful completion of the course, student will be able to:	
1	Understand the fundamentals of Internet and the Web concepts	K2
2	Explain the usage of internet concepts and analyze its components.	K2
3	Identify and apply the online information resources	K3
4	Inspect and utilize the appropriate Google Apps for education effectively	K3 K4
K	I-Remember; K2 -Understand; K3 -Apply; K4 -Analyze; K5 -Evaluate; K6 -Create	
	se Title: DATA STRUCTURE	
	rse Outcomes:	
	the successful completion of the course, student will be able to:	
1	Understand the basic concepts of data structures and algorithms	K1-K2
2	Construct and analyze of stack and queue operations with illustrations	K2-K4
3	Enhance the knowledge of Linked List and dynamic storage management.	K2-K3
4	Demonstrate the concept of trees and its applications	K2-K3
5	Design and implement various sorting and searching algorithms for applications and understand the concept of file organizations	K1-K4
K 1	-Remember; K2 -Understand; K3 -Apply; K4 -Analyze; K5 -Evaluate; K6 -Create	•
ou	se Title: JAVA PROGRAMMING Theory	
	rse Outcomes:	
Or	the successful completion of the course, student will be able to:	
1	The competence and the development of small to medium sized applicationPrograms that demonstrate professionally accept able coding	K1- K2
2	Demonstrate the concept of object oriented programming through Java	K2- K4
3	Apply the concept of Inheritance, Modularity, Concurrency, Exceptions handlingAnd data persistence to develop java program	К3
4	Develop java programs for applets and graphics programming	K3
	Understand the fundamental concepts of a WT controls, layouts and event.	K1- K2
5		
-	-Remember; K2 -Understand; K3 -Apply; K4 -Analyze; K5 -Evaluate; K6 -Create	
K	-Remember; K2 -Understand; K3 -Apply; K4 -Analyze; K5 -Evaluate; K6 -Create ourse Title: JAVA PROGRAMMING LAB	
K1 C		
K1 C	ourse Title: JAVA PROGRAMMING LAB	
K1 C	ourse Title: JAVA PROGRAMMING LAB rse Outcomes:	K1, K2
K1 C Cour Or	ourse Title: JAVA PROGRAMMING LAB rse Outcomes: the successful completion of the course, student will be able to: Understand the basic concepts of Java Programming with emphasis on ethics and principles of professional coding Demonstrate the creation of objects, classes and methods and the concepts of	K1, K2 K2
K C Cour Or 1	ourse Title: JAVA PROGRAMMING LAB rse Outcomes: the successful completion of the course, student will be able to: Understand the basic concepts of Java Programming with emphasis on ethics and principles of professional coding	K2
Ki C Cour Or 1	ourse Title: JAVA PROGRAMMING LAB rse Outcomes: the successful completion of the course, student will be able to: Understand the basic concepts of Java Programming with emphasis on ethics and principles of professional coding Demonstrate the creation of objects, classes and methods and the concepts of constructor, methods overloading, Arrays, branching and looping Create data files and Design a page using AWT controls and Mouse Events in Java	,

Your a	a Title Web Programming	
	se Title: Web Programming se Outcomes:	
	the successful completion of the course, student will be able to:	
1	Understand the basic concepts of Internet, WWW, browsers and Email and protocols	K1
$\frac{1}{2}$	Understand and apply the HTML, HTML elements and formatting styles	K1-
Ζ	Understand and apply the HTML, HTML elements and formatting styles	K1- K3
3	Knowledge on creating tables, forms and DHTML	K3 K3
<u> </u>	Understand the structure of XML document, DTD and Schema	K1-
4	Understand the structure of XIVIL document, DTD and Schema	K1- K3
5	Knowledge on working with SML, Style sheet sand XSL	K1-
		K4
K1	-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create	
our	se Title: System Software and Operating Systems	
our	se Outcomes:	
On	the successful completion of the course, student will be able to:	
1	Know the program generation and program execution activities in detail	K1
2	Understand the concepts of Macro Expansions and Gain the knowledge of	K2-
	EditingProcesses	K3
3	Remember the basic concepts of operating system	K1
<u> </u>	Understand the concepts like interrupts, dead lock, memory management and	131
7	filemanagement	K2
5	Analyze the need for scheduling algorithms and implement different	
-	Algorithms used for representation, scheduling, and allocation in DOS and	K1-
	UNIX operating System.	K4
K1	-Remember; K2 -Understand; K3 -Apply; K4 -Analyze; K5 -Evaluate; K6 -Create	
	se Title: Linux and Shell Programming Theory	
	se Outcomes:	
On	the successful completion of the course, student will be able to:	
1	Describe the architecture and features of Linux Operating System and distinguish	
	itfrom other Operating System.	K1
2	Develop Linux utilities to perform File processing, Directory handling, User	K2-
	Management and display system configuration	K3
3	Develop shell scripts using pipes, redirection, filters and Pipes	K2
4	Apply and change the ownership and file permissions using advance	V.
	Unixcommands.	K3
5	Build Regular expression to perform pattern matching using	K3-
	utilities And implement shell scripts for real time applications.	K6
	-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create	
	se Title: Linux and Shell Programming LAB	
	se Outcomes:	
	the successful completion of the course, student will be able to:	
1	Develop Linux utilities to perform File processing, Directory handling and User Management	K1, K2
	Understand and develop shell scripts using pipes, redirection, filters, Pipes and display system configuration	К2-К
3	Develop simple shell scripts applicable to file access permission network administration	K3
4	Apply and change the ownership and file permissions using advance Unix commands	T Z A
		K4- K5
5	Create shell scripts for real time applications.	K5
J	-Remember; K2 -Understand; K3 -Apply; K4 -Analyze; K5 -Evaluate; K6 -Create	K6

ourse Title: Lab –Web Programming ourse Outcomes:	
On the successful completion of the course, student will be able to:	
	K2-
	K4, K6
	K0 K2-
	K2- K3
	K3
	K4- K5
5 Create websites of real time applications	K6
K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create	
Course Title: RDBMS & Oracle Theory	
ourse Outcomes:	
On the successful completion of the course, student will be able to:	
1 Understand the basic concepts of Relational Data Model, Entity-Relationship Model and process of Normalization	K1- K2
2 Understand and construct database using Structured Query Language	K1-
(SQL) inOracle9ienvironment.	K3
3 Learn basics of PL/SQL and develop programs using Cursors, Exceptions, Procedures and	K1-
Functions.	K4
4 Understand and use built-in functions and enhance the knowledge of handling multiple tables	K1- K3
5 Attain a good practical skill of managing and retrieving of data usingData Manipulation Language(DML)	K2- K4
K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create	
Course Title: Visual Basic Theory	
ourse Outcomes:	
On the successful completion of the course, student will be able to:	
1 Demonstrate fundamental skills in utilizing the tools of a visual environment such	K1
As command, menus and toolbars.	
2 Implement SDI and MDI applications using forms, dialogs and other types of GUI	K2
components.	
3 Understand the connectivity between VB with MS-ACCESS database.	K3
4 Implement the methods and techniques to develop projects.	K4
 Attain a good practical skill of managing ODBC and Data Access Objects 	K2
Attain a good practical skin of managing ODDC and Data Access Objects	-
	K4
K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create	
Course Title: Programming Lab–VB &Oracle	
ourse Outcomes:	
On the successful completion of the course, student will be able to:	
1Understand the concepts of Visual Basic.1	K1
2 Learn the advantages of Controls in VB	K2
3 Design and develop the event-driven applications using Visual Basic frame work.	K3
	K4
rippij die hilo vieuge of data ouse methods.	
5 Learn basics of PL/SOL and develop programs using Cursors Exceptions	K6

	se Title: PYTHON Programming se Outcomes:	
	he successful completion of the course, student will beable to:	
1	Remembering the concept of operators, datatypes, loopingstatements in Python	K1
	programming	
2	Understanding the conceptsofInput/ Output operations in file	K2
3	Applying the concept of function sand exception handling	K3
4	Analyzing the structures of list, tuples and maintaining dictionaries	K4
5	Demonstrate significant experience with python program development environment	K4- K6
K1	-Remember; K2 -Understand; K3 -Apply; K4 -Analyze; K5 -Evaluate; K6 -Create	
our	se Title: CASE Tools Concepts and Applications	
our	se Outcomes:	
n tl	ne successful completion of the course, student will beable to	
1	Understand the basic concepts of software engineering	K1
2	Apply the software engineering models in developing software applications	K2- K3
3	Implement the object oriented design in various projects	K4
4	Knowledge on how to do a software project within-depth analysis.	K3
5	To inculcate knowledge on Software engineering concepts inturn gives a road map to design a new software project.	K1- K4
K1	Remember; K2 –Understand; K3 –Apply; K4 –Analyze; K5 –Evaluate; K6 –Create	
	se Title: Graphics & Multimedia Theory	
	se Outcomes:	
On	the successful completion of the course, student will be able to:	
1	Explain applications, principles, commonly used and techniques of computer graphics and algorithms for Line-Drawing, Circle-Generating and Ellipse-Generating.	K2
2	Students will get the concepts of 2D and 3D, Viewing, Curves and surfaces, Hidden	K3
	Line/surface elimination techniques	
3	Studies concepts of Multimedia Systems, Text, Audio and Video tools	K3
4	Compressing audio and video using MPEG-1 and MPEG-2	K4
5	Creates Animation with special effects using algorithms	K 6
	-Remember; K2 -Understand; K3 -Apply; K4 -Analyze; K5 -Evaluate; K6 -Create	
	se Title: Programming Lab – Graphics & Multimedia	
	se Outcomes:	
	the successful completion of the course, student will be able to:	
1	Understand the basic concepts of computer graphics.	K1
	Designs can conversion problems using C and C++ programming.	K2
	Apply clipping and filling techniques for modifying an object.	K3
	Understand the concepts of different type of geometric transformation of objectsin2D.	K4
	Understand and develop the practical implementation of modeling, rendering, viewing of objects in 2D	K6

	se Title: Project Work Lab se Outcomes:	
	the successful completion of the course, student will be able to:	
1	Formulate a real world problem and develop its requirements develop a	K3
1	designsolution for a set of requirements.	IX.
2	Test and validate the conformance of the developed prototype against the	K5
_	original requirements of the problem.	
3	Work as a responsible member and possibly a leader of at a in developing	K3
	software solutions.	
4	Expresstechnicalideas, strategies and methodologies inwritten form. Self-learn	K1-K4
	new tools, algorithms and techniques that contribute to the software	
	Solution of the project.	
5	Generate alternative solutions, compare them and select the optimum one.	K6
	-Remember; K2 -Understand; K3 -Apply; K4 -Analyze; K5 -Evaluate; K6 -Create	
	seTitle: Dot Net Programming	
	seOutcomes:	
	the successful completion of the course, student will be able to:	17.1
1	Understand the basics of .NET framework and the object oriented programming	K1
2	Understand the procedures, File I/O, Error handling and Message queues	K2
_		
3	Understand and remember the components inVB.NETIDE,ADO.NETandalso the	K2
	window forms.	
4	Understand the HTML server controls, Web controls, Validation controls and state	K3
	management and tracing.	
5	Knowledge on SOAP, building web services and deploying and publishing web services,	K2- K4
5	Finding and consuming web services.	182-187
K1	–Remember; K2 –Understand; K3 –Apply; K4 –Analyze; K5 –Evaluate; K6 –Create	
	se Title: Internet of Things(IoT)	
	se Outcomes:	
On	the successful completion of the course, student will be able to:	
1	To Understand The Fundamentals of Internet of Things.	K1
	-	
2	To know the basics of communication protocols and the designing principles of	K2
3	Web connectivity.	VA VA
3	To gain the knowledge of Internet connectivity principles	K2-K3
4	Designing And Develop Smart City in IoT	K2-K3
5	Analyzing and evaluate the data received through sensors in IOT.	K4-K5
-	-Remember; K2 –Understand; K3 –Apply; K4 – Analyze; K5– Evaluate; K6–Create	124-123
	se Title: Lab –CASE TOOLS LAB	
	se Outcomes:	
	the successful completion of the course, student will be able to	
	Prepare the CASE tools for the given specification.	K1, K2
	Understand and develop the UML diagram for real time applications.	K2-K3
	Design the real time test cases	K3
	Analyze the development of CASE tools	K4-K5
	Design the CASEtools and generateVB code	K6



Department of Commerce



M.Com – PEOs, PSOs & POs

Program Educational Objectives (PEOs)

The M.Com program describe accomplishments that graduates are expected to attain within five to seven years after graduation

PEO1	To assume jobs of executive cadre in corporate
PEO2	To offer investment /finance/tax consultancy and business analytics
PEO3	To manage firms offering financial services
PEO4	To pursue research in commerce /Management
PEO5	To exercise professional skills and values

Program Specific Outcomes (PSOs)				
After the s	After the successful completion of M.Com program, the students are expected to			
PSO1	Undertake a research work with specializations			
PSO2	Use software tools to carry out a specified financial analysis of a business application			
PSO3	Apply the knowledge gained during the course of the program to solve the real time problems			
PSO4	Meet the needs of industry 4.0			
PSO5	Communicate effectively with professionals			

Program Outcomes (POs)

On successful completion of the M.Com program			
PO1	To ensure all round development of personality required for an executive		
PO2	To build necessary skills concerning commercial theories and applications to business by using business analytics		
PO3	To obtain practical knowledge in commercial activities by understanding training in commercial and industrial establishments		
PO4	To develop a broad range of business skills and commercial knowledge, development of general and specific capabilities to meet the current and future expectations of business and industry		
PO5	To enrich the necessary competencies and creativity to undertake entrepreneurship as a desirable and feasible career option		

COURSE OUTCOMES FOR M.Com

Course title: MANAGERIAL ECONOMICS				
Course Outcomes:				
On the successful completion of the course, student will be able to:				
1	Understand the nature and scope of Managerial Economics, demand analysis and law of variable proportion.	K1		
2	Explain the role of Managerial Economist, goal of corporate enterprises, demand determinants, types of market, national incomeand public finance.	K2		
3	Apply the types of costs and revenues and Break Even point analysis for business decisions.	К3		
4	Analyze the role of managerial economist in demand analysis, cost and production analysis.	K4		
5	Evaluate the value of enterprises, pricing and output decisions, business cycles and causes and remedies of industrial sickness	K5		
K1	- Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; H	X6 - Create		
Cou	rse title: CORPORATE ACCOUNTING			
Cou	rse Outcomes:			
On	the successful completion of the course, student will be able to:			
1	Comprehend the accounting provisions in the Companies Act relating to preparation of final accounts of a company.	K1		
2	Explain the accounts of Amalgamation, Absorption and Alteration of share capital.	K2		
3	Prepare accounts at the time of liquidation of companies.	K3		
4	Make use of the accounting aspects pertaining to valuation of shares, holding company accounts and banking and insurance companies	К3		
5	Examine the theoretical framework of Human resource accounting, Government accounting, Responsibility, accounting and Environmental Accounting	K4		
K1	- Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; H	K6 - Create		
Cou	rse title: INFORMATION TECHNOLOGY IN BUSINESS			
	rse Outcomes:			
On	the successful completion of the course, student will be able to:			
1	Analyze the impact of hardware and software in business	K4		
2	Illustrate the internet security aspects and e-business communication modes	K1 & K2		
3	Explain the data processing systems.	K2		
4	Examine the key features of machine language and input, output devices	K5		
5	Develop an application for a e-commerce business	K6		
	K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Eval	uate; K6 - Create		

	rse title: MARKETING MANAGEMENT rse Outcomes:	
	the successful completion of the course, students will be able to:	
1	Recollect the marketing concepts, types and modern marketing	K1
	concept	
2	Illustrate the macro and micro environments of a market and buyer behavior	K2
3	Locate the different types of products, product line, product mix and pricing decisions	K3
4	Analyze the important of channels of distribution and promotional mix	K4
5	Examine the market agricultural produce and marketing research.	K4
K1	- Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; I	K6 - Create
	rse title: BUSINESS RESEARCH METHODS	
	rse Outcomes:	
	the successful completion of the course, student will be able to:	
1	Explain the range of quantitative and / or qualitative research techniques to business and management problems / issues	K1 & K2
2	Organize and conduct research in a more appropriate sampling method manner.	K2
3	Make use of the necessary critical thinking skills in order to evaluate different statistical tools used in research.	K2 & K3
4	Interpret the data analysis in relation to the research process by testinghypothesis.	K4
5	Write a research report and thesis.	K5 & K6
	rse title: BUSINESS ENVIRONMENT	
	rse Outcomes:	
On	the successful completion of the course, student will be able to:	
1	Explain the internal and external environment pertaining to business	K2
2	Evaluate the industry policy and regulations	K5
3	Analyze the policies and legal provisions of the government	K4
4	Explain the impact of financial environment and labor legislation in India	K1
5	Indentify the concepts of ethics in business and the relevant fields	K3
	- Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Cr	eate
	rse title: APPLIED COST ACCOUNTING	
	rse Outcomes:	
	the successful completion of the course, student will be able to:	
1	Recall the classification of cost, methods and techniques	K1
2	Evaluate cost sheet and material and labor control	K5
3	Analyze cost control and cost reduction tools and techniques	K4
1	Solve labor, overhead and process costing methods	K2
4	Reconciliation of cost and financial accounting.	K6

	se title: HUMAN RESOURCES MANAGEMENT	
	se Outcomes: he successful completion of the course, student will be able to:	
		17.1
1	Explain human resources planning, dealing with surplus and deficient man power	K1
2	Describe the meanings of terminology and tools used in managing	K2
2	employees effectively	
3	Apply a selection strategy for a specific job	K3
4	Gain knowledge in develop, analyze and apply advanced training	K4
	strategies and specifications for the delivery of training programs	
5	Assess the different techniques involved in the performance appraisal	K5
	process.	
	Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6	- Create
	rse title: DIRECT TAXES	
	rse Outcomes:	
1	he successful completion of the course, student will be able to:	K5
1	Evaluate the procedure for computing of taxable income under various sources.	K.J
2	Recollect the concept of tax administration and practices.	K1
3	Utilize the latest provision of income tax act.	K3
4	Develop the legitimate way of Tax Planning and Management.	K6
•	Develop the regitinate way of Tax Flamming and Management.	110
5	Make use of the procedure for assessment and e-filing.	K3
	Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 rse title: MANAGEMENT ACCOUNTING	- Cleate
	rse Outcomes:	
	he successful completion of the course, student will be able to:	
1	Recollect the concept and importance of management accounting.	K1
2	Explain the role of managerial accounting in management decision	K2
	making.	
3	Utilize the various methods and technique of managerial accounting.	K3
1	Analyze the method and technique of management accounting was 1 fer	K4
	Analyze the method and technique of management accounting used for	κ4
4		
	managerial decision making.	VL
5	managerial decision making.Prepare budget and budgetary control for any business consern	K6
5 K1 -	managerial decision making.Prepare budget and budgetary control for any business consernRemember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6	
5 K1 - Cou	managerial decision making. Prepare budget and budgetary control for any business consern Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 rse title: FINANCIAL MANAGEMENT	
5 K1 - Cou Cou	managerial decision making. Prepare budget and budgetary control for any business consern Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 rse title: FINANCIAL MANAGEMENT rse Outcomes:	
5 K1 - Cou On t	managerial decision making. Prepare budget and budgetary control for any business consern Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 rse title: FINANCIAL MANAGEMENT rse Outcomes: he successful completion of the course, student will be able to:	- Create
5 K1 - Cou On t 1	managerial decision making.Prepare budget and budgetary control for any business consernRemember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6rse title: FINANCIAL MANAGEMENTrse Outcomes:he successful completion of the course, student will be able to:Recollect the concept and importance of financial management.	- Create K1
5 K1 - Cou On t	managerial decision making. Prepare budget and budgetary control for any business consern Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 rse title: FINANCIAL MANAGEMENT rse Outcomes: he successful completion of the course, student will be able to:	- Create
5 K1 - Cou On t 1	managerial decision making.Prepare budget and budgetary control for any business consernRemember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6rse title: FINANCIAL MANAGEMENTrse Outcomes:he successful completion of the course, student will be able to:Recollect the concept and importance of financial management.Analyse the Various sources of long-term and short-term finance.	- Create K1
5 K1 - Cou On ti 1 2 3	managerial decision making.Prepare budget and budgetary control for any business consernRemember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6rse title: FINANCIAL MANAGEMENTrse Outcomes:he successful completion of the course, student will be able to:Recollect the concept and importance of financial management.Analyse the Various sources of long-term and short-term finance.Indentify the methods and techniques for calculating cost of capital.	- Create K1 K2 K3
5 K1 - Cou On the 1 2	managerial decision making.Prepare budget and budgetary control for any business consernRemember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6rse title: FINANCIAL MANAGEMENTrse Outcomes:he successful completion of the course, student will be able to:Recollect the concept and importance of financial management.Analyse the Various sources of long-term and short-term finance.	- Create K1 K2

Cou	rse title: INTERNET & E-COMMERCE	
	irse Outcomes:	
	the successful completion of the course, student will be able to:	
1	Illustrate the various trends in business.	K1&k2
2	Explore information technology in every aspect of business.	K3
3	Analyze the role of e- commerce in the present business scenario.	K3 & K4
4	Examine the cyber security and cyber regulation in global business world.	K5
5	Develop the future relevance internet business in global business world	K6
	- Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K	K6 - Create
	Irse title: INVESTMENT MANAGEMENT	
	irse Outcomes:	
	the successful completion of the course, student will be able to:	IZ 1
1	Recall various investment avenues and personal finance.	K1
2	Explain securities markets, regulation and its instruments	K2
3	Indentify fundamental analysis of an organization using financial data information.	К3
4	Examine technical analysis of an organization using financial data information.	K4
5	Evaluate risk return of securities in different investment proposal.	K5
K1	- Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K	K6 - Create
	urse title: INTERNATIONAL BUSINESS	
Co	urse Outcomes:	
On	the successful completion of the course, student will be able to:	
1	Recall the concept of international business.	K1
2	Explain the level of changes international business in global era.	K2
3	Indentify the role of global financial markets and instrument.	K3
4	Evaluate various functions of WTO, IMF AND IBRD.	K5
5	Analyze various theories of foreign exchange.	K4
K1	- Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K	K6 - Create
	rse title: Financial markets and Institutions	
	irse Outcomes:	
On	the successful completion of the course, student will be able to:	
1	Describe Indian Financial System and securities exchange board of India.	K1&K2
2	Classify Small Savings, Provident Funds, Unit Trust of India and Mutual Funds.	K2
3	Explore activities of non-financial banking.	K4
4	Assess about various investment information and credit rating agency	K5
5	Identify about various financial institutions and related to its working and functions	K3
K1	- Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; F	K6 - Create

	irse Outcomes:	
On		
	the successful completion of the course, student will be able to:	
1	Describe Indian stock exchanges and securities exchange board of India.	K1&K2
2	Classify and regulate the trading transactions with proper rules and regulations.	K2
3	Explore activities of the investors of stock exchange	K4
4	Determine the securities contracts regulation act and important provisions related to SEBI functions workings.	K5
5	Examine various basic concepts of internet stock trading features	K4
K1 ·	- Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K	K6 - Create
	arse title: Futures and Options	
	irse Outcomes:	
On	the successful completion of the course, student will be able to:	
1	Recall the concepts and market mechanics of different types of financial derivatives	K1
2	Analyze how financial derivatives are valued, based on the no- arbitrage and risk-neutral valuation approaches	K4
3	Evaluate the instruments that can be used to implement risk management strategies.	K5
4	Explain various pay off for buyer of futures and other options like hedging and speculation.	K2
5	Identify the evolution of commodity markets and exchanges in India.	К3
K1 -	- Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K	K6 - Create
	rse title: Fundamental Technical analysis	
	irse Outcomes:	
On 1	the successful completion of the course, student will be able to:	
1	Examine various concepts related to investment and approaches to security valuation.	K4
2	Outline the theoretical contexts of the fundamental and technical analysis	K2
3	Summarize work on the basic tools used by technical analysts	К5
4	Determine the various theory and technical analysis related meaning	K5
5	Evaluate securities by measuring the intrinsic value of stock	K5



Department of Information Technology



M.Sc. INFORMATION TECHNOLOGY-PEOs, PSOs&POs

The M.Sc.I	ducational Objectives(PEOs) Γ program describe accomplishments that graduates are expected to attain within n years after graduation
PEO1	Empower students to critically analyze current trends and learn future issues from a system perspective at multiple levels of detail and abstraction
PEO2	Acquire higher degree of technical skills in problem solving and application development
PEO3	Exhibit continuous learning and research for the societal upliftment with human values and ethics

Program Sp	ecific Outcomes (PSOs)
After the succ	cessful completion of M.Sc. IT program, the students are expected to
PSO1	Able to work out effective and efficient real time solutions using acquired knowledge in computer science domain including theory, programming, algorithms, databases and web development.
PSO2	Motivate students to pursue lifelong learning and to do research as computing experts and scientists to meet the requirement of corporate world and Industry standard to provide solutions to industry, society and business.
PSO3	Acquire professional skills in software design process and practical competence in broad range of open source programming languages to withstand technological change and provide solutions to new ideas and innovations.
PSO4	Acquire the knowledge of advanced programming skills and distributed environmental need for sustainable development.
PSO5	Able to pursue careers in IT industry/ consultancy/ research and development, teaching and allied areas related to Information Technology.

Program	Outcomes (POs)
On success	sful completion of the M.Sc. IT program
PO1	Develop creativity and problem solving skills with the knowledge of computing and mathematics.
PO2	Ability to develop and carry out experiments, interpret and infer data.
PO3	Design algorithms and develop software to aid solutions to industry and governments.
PO4	Review the latest technology and tool handling mechanism.
PO5	Analyze the outcome to solve global environment related issues.
PO6	Apply the knowledge in lifelong learning journey to equip themselves.
PO7	Identify the perspective of business practices, risks and limitations.
PO8	Work with professional and ethical values.
PO9	Formulate the responsibilities of human rights and entrepreneurial spirit.
PO10	Understand the methods to communicate effectively and work collectively.

COURSEOUTCOMESFOR M.Sc.INFORMATION TECHNOLOGY

Cou	rseTitle:OBJECT ORIENTED ANALYSIS AND DESIGN	
	urse Outcomes:	
On	the successful completion of the course, student will be able to:	
1	Remember the basic knowledge on design technique	K1,K2
2	Understand the object oriented system development and case	K2,K3
	models	
3	Analyze on class diagrams used for UML.	K4,K5
4	Apply and analyze different testing techniques for various	K3,K4, K5
	applications	
5	Analyze Design and Implement projects using OO Concepts	K5,K6
K1	- Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evalu	ate; K6 - Create
Coι	irseTitle:ADVANCED OPERATING SYSTEMS	
Cou	urse Outcomes:	
On	the successful completion of the course, student will be able to:	
1	Understand the design issues associated with operating systems	K1,K2
2	Master various process management concepts including	K2,K3
	scheduling, deadlocks and distributed file systems	
3	Prepare Real Time Task Scheduling	K3,K4
4	Analyze Operating Systems for Handheld Systems	K5,K6
5	Analyze Operating Systems like LINUX and iOS	K6
K1	- Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evalu	ate; K6 – Create
Cou	IrseTitle:ADVANCED JAVA PROGRAMMING	
Cou	urse Outcomes:	
On	the successful completion of the course, student will be able to:	
1	Understand the advanced concepts of Java Programming	K1,K2
2	Understand JDBC and RMI concepts	K2,K3
3	Apply and analyze Java in Database	K3,K4
4	Handle different event in java using the delegation event model,	K4,K5
	event listener and class	
5	Design interactive applications using Java Servlet, JSP and JDBC	K5,K6
K1	- Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evalu	ate: K6 Create
	rseTitle:PYTHON PROGRAMMING	late, IXO - Cleate
Cou	irse Outcomes:	
On	the successful completion of the course, student will be able to:	
1	Understand the basic concepts of Python Programming	K1,K2
2	Understand File operations, Classes and Objects	K2,K3
3	Acquire Object Oriented Skills in Python	K3,K4
4	Develop web applications using Python	K5
5	Develop Client Server Networking applications	K5,K6
	- Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evalu	
		,

CourseTitle:.NET Programming	
Course Outcomes:	
On the successful completion of the course, student will be able to:	
1 Understand the concepts of .NET Framework Technology	K1,K2
2 Apply error handling techniques in .NET	K3
3 Demonstrates the c# console applications	K3,K4
4 Design and develop the Web applications using c#	K5
5 Design and develop the distributed data driven applications using .NET framework	K5,K6
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K	6 - Create
CourseTitle:ADVANCED JAVA LAB	
Course Outcomes:	
On the successful completion of the course, student will be able to:	
Understand to the implement concepts of Java using HTML forms, JSP & JAR	K1,K2
2 Must be capable of implementing JDBC and RMI concepts	K3,K4
Able to write Applets with Event handling mechanism	K4,K5
4 To Create interactive web based applications using servlets and jsp	K5,K6
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K	
CourseTitle:PYTHON PROGRMMING LAB	
Course Outcomes:	
On the successful completion of the course, student will be able to:	
Able to write programs in Python using OOPS concepts	K1,K2
2 To understand the concepts of File operations and Modules in Python	K2,K3
3 Implementation of lists, dictionaries, sets and tuples as programs	K3,K4
To develop web applications using Python	K5,K6
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K	
CourseTitle:DATA MINING AND WAREHOUSING	
Course Outcomes:	
On the successful completion of the course, student will be able to:	
Understand the basic data mining techniques and algorithms	K1,K2
2 Understand the Association rules, Clustering techniques and Data	K2,K3
warehousing contents	, -
3 Compare and evaluate different data mining techniques like	K4,K5
classification, prediction, Clustering and association rule mining	
Design data warehouse with dimensional modeling and apply OLAP operations	K5
5 Identify appropriate data mining algorithms to solve real world problems	K5,K6
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K	6– Create

Cours	eTitle:NETWORK SECURITY AND CRYPTOGRAPHY	
Course	e Outcomes:	
On the	successful completion of the course, student will be able to:	
1	Understand the process of the cryptographic algorithms	K1,K2
2	Compare and apply different encryption and decryption techniques to solve problems related to confidentiality and authentication	K2,K3
3	Apply and analyze appropriate security techniques to solve network security problem	K4,K5
4	Explore suitable cryptographic algorithms	K5,K6
5	Analyze different digital signature algorithms to achieve authentication and design secure applications	K6
K1 - R	emember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; I	X6 - Create
Course	eTitle:.SOFTWARE PROJECT MANAGEMENT	
Course	e Outcomes:	
On the	successful completion of the course, student will be able to:	
1	Understand the basic concepts of Software Project Management	K1,K2
2	Identify the different project contexts and suggest an appropriate management strategy	K2,K3
3	Demonstrate through application, knowledge of the key project management skills, such as product and work break-down structure, schedule, governance including progress reporting, risk and quality management	K4,K5
4	Analyze a comparison on Product Versus Process Quality Management	K4,K5
5	Perform case studies on cost estimation models like COCOMO	K5,K6
K1 - Re	emember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K	K6 – Create
Course	eTitle:MULTIMEDIA AND ITS APPLICATIONS	
Course	e Outcomes:	
On the	successful completion of the course, student will be able to:	
1	Understand the basic concepts of Multimedia	K1,K2
2	Demonstrate Multimedia authoring tools	K2,K3
3	Analyze the concepts of Sound, Images, Video & Animation	K3,K4
4	Apply and Analyze the role of Multimedia in Internet and real time applications	K4,K5
5		K6
K1 - Re	emember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K	K6 – Create
	eTitle:.DATA MINING USING R	
Course	e Outcomes:	
On the	successful completion of the course, student will be able to:	
1	Able to write programs using R for Association rules, Clustering techniques	K1,K2
2	To implement data mining techniques like classification, prediction	K2,K3
3	Able to use different visualizations techniques using R	K4,K5
4	To understand different data mining algorithms to solve real world applications	K5,K6
K1 - Re	emember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K	X6 - Create

	Title:.NET PROGRAMMING LAB	
Course	Outcomes:	
On the	successful completion of the course, student will be able to:	
1	Understand to create web pages using ASP.NET	K1,K2
2	Capable of developing interactive web applications using ASP.NET	K2,K3
3	Able to write dynamic web applications using C#	K3,K4
4	Must be able develop data base applications using ADO.NET control	K5,K6
K1 - Re	emember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evalu	ate; K6 - Create
Course	Title:DIGITAL IMAGE PROCESSING	
Course	Outcomes:	
On the	successful completion of the course, student will be able to:	
1	Understand the fundamentals of Digital Image Processing	K1,K2
2	Understand the mathematical foundations for digital image representation, image acquisition, image transformation, and image enhancement	K2,K3
3	Apply, Design and Implement and get solutions for digital image processing problems	K3,K4
4	Apply the concepts of filtering and segmentation for digital image retrieval	K4,K5
5	Explore the concepts of Multi-resolution process and recognize the objects in an efficient manner	K6
K1 - Re	emember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evalu	ate; K6 - Create
Course	Title:BIG DATA ANALYTICS	
	Outcomes:	
	successful completion of the course, student will be able to:	
1	Understand about the Big Data evaluation	K1,K2
2	Understand about HDFS	K2,K3
3	Installation of R and Hadoop	K3,K4
4	Apply MapReduce concepts to process big data	K4,K5
5	Design big data applications using Hadoop components and R programming	K6
K1 - Re	emember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evalu	ate; K6 - Create
	eTitle:CLOUD COMPUTING	
	Outcomes:	
	successful completion of the course, student will be able to:	
1	Understand the basic knowledge on virtualization	K1,K2
2	Understand the concept of cloud computing services and its	K2,K3
	business value	
3	Analyze various web based applications for collaborating everyone in cloud computing	K4,K5
4	Assess various industrial platforms for the developments	K5,K6
5	Analyze on cloud mobility and governance	K6
	emember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evalu	V C

ourse	Outcomes:	
In the	successful completion of the course, student will be able to:	
	Understand the concepts of open source softwares	K1,K2
	Understand the functions and browser handling power of PHP	K2,K3
	Apply object oriented concepts and file handling concepts of PHP	K3,K4
	Evaluate database and set sessions, cookies and FTP	K4,K5
	Develop web pages using PHP	K5,K6
1 - R	emember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 -	- Create
ours	eTitle:EMBEDDED SYSTEMS	
ourse	e Outcomes:	
n the	successful completion of the course, student will be able to:	
	Understand the concept of 8051 microcontroller	K1,K2
	Understand the Instruction Set and Programming	K2,K3
	Analyze the concepts of RTOS	K4,K5
	Analyze and design various real time embedded systems using RTOS	K5,K6
	Debug the malfunctioning system using various debugging techniques	K6
1 - R	emember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6-	- Create
	eTitle:DIGITAL IMAGE PROCESSING Using MATLAB	
ourse	e Outcomes:	
n the	successful completion of the course, student will be able to:	
	To write programs in MATLAB for image processing using the	K1,K2
	techniques	
	To able to implement Image Enhancements & Restoration techniques	K2,K3
	Capable of using Compression techniques in an Image	K3,K4
	Must be able to manipulate the image and Segment it	K5,K6
	emember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 -	- Create
	eTitle:PHP PROGRAMMING LAB	
	e Outcomes:	
	successful completion of the course, student will be able to:	r
	Understand to write programs in PHP for OOPS concepts	K1,K2
, ,	Capable of developing interactive web applications using PHP	K2,K3
	Able to write PHP programs for File handling	K3,K4
	Must be able develop data base applications using PHP	K5,K6
	emember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 -	- Create
	eTitle:WEB APPLICATION DEVELOPMENT AND HOSTING	
	e Outcomes:	
n the	successful completion of the course, student will be able to:	r
	Understand & implement the basic HTML tags to create static web pages	K1,K2
	Capable of using hyperlinks, frames, images, tables,in a web page	K2,K3
	Able to write dynamic web applications using HTML forms	K4,K5
	Must be able to write dynamic web applications in PHP & HTML tags using XAMPP.	K5,K6