



அரசு கலை மற்றும் அறிவியல் கல்லூரி
சக்தியமங்கலம் - 638 401, ஈரோடு மாவட்டம், தமிழ்நாடு.
GOVERNMENT ARTS AND SCIENCE COLLEGE
(Recognized u/s 2(f) & 12 (B) of the UGC Act, 1956. A Co-educational Institution affiliated to Bharathiar University, Coimbatore)

SATHYAMANGALAM - 638 401, ERODE DISTRICT, TAMIL NADU.

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2.6.1 Programme Outcomes (Pos) and Course Outcomes (Cos) for all Programmes offered by the institution are stated and displayed on website and attainment of Pos and Cos are evaluated.

B.COM.,

PROGRAMME OUTCOMES (POs)

On successful 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, inter personal, 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




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COURSE OUTCOMES (Cos)

PRINCIPLES OF ACCOUNTANCY (13A) – FIRST SEMESTER

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	Recalling Accounting Concepts and Conventions and use Accounting rules to record business transactions in the form of Journal, Ledger, subsidiary books and preparation of Trial Balance.	K1
2	Understanding the steps involved in locating errors and prepare them to Understand the preparation of final accounts for sole traders.	K2
3	Outline the concepts of Bills of exchange ,Average due date and Account Current	K2
4	Examine the concepts of consignment and joint venture.	K4
5	Analyze the bank reconciliation statement, Receipts and payments, Income and Expenditure and Balance sheet and accounting for professionals to enhance the knowledge.	K4
K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create		

Business Organization and Office Management (13B) - FIRST SEMESTER

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	Understanding the concepts of business and its forms of organizations involved in sole trader, partnership firms, companies and co-operative societies and public enterprise.	K2
2	Analyzing the business factors which are involved in sources of finance.	K4
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-Create		



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Agricultural Economy of India (1AA) – FIRST SEMESTER

Expected Course 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 green revolution.	K2
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-Create		

Financial Accounting (23A) - SECOND SEMESTER

Expected Course Outcomes:		
On The successful completion of the course, student will be able to:		
1	Describing the concepts based on depreciation and its methods in books of accounts.	K1
2	Outline about the nature of Investment and Royal expending.	K2
3	Identifying the essential characteristics of single entry system.	K3
4	Applying the basic concepts of departmental and branch accounting.	K4
5	Familiarize the procedure relating to hire purchase and installment in books of Accounts	K2
K1-Remember;K2-Understand;K3 -Apply;K4-Analyze;K5-Evaluate;K6-Create		

Principles of Marketing (23B) - SECOND SEMESTER

Expected Course Outcomes:		
On the successful completion of the course,student will beableto:		
1	Defining the various concepts and terms related to marketing.	K1
2	Explaining about various marketing functions	K2
3	Understanding terms of consumer behaviour and examined about different Concepts related to consumers.	K2
4	Identifying the marketing mix and its elements	K1
5	Understandingdifferentprovisionsrelatedtotrendsinemergingmarkets.	K2
K1-Remember;K2-Understand;K3 -Apply;K4-Analyze;K5-Evaluate;K6-Create		



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Economic Analysis (2AA) - SECOND SEMESTER

Expected Course Outcomes:

On the successful completion of the course, student will be able to:

1	Understand The Fundamentals of Micro Economic And Theory Consumer Behaviour	K2
2	Learn the concepts of demand and elasticities of demand	K2
3	Understand theories of production, cost and revenue concepts	K2
4	Analyse the price and output determination under various market structures	K4
5	Acquire knowledge on theories of productivity and wages	K2

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

Higher Financial Accounting (33A) – THIRD SEMESTER

Expected Course Outcomes:

On the successful completion of the course, student will be able to:

1	Understanding the basic concepts of partner and procedures related to calculation 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 accounting.	K4

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

Commercial Law (33B) - THIRD SEMESTER

Expected Course Outcomes:

1	Assessing the various elements related business law and contract	K5
2	Interpreting different type of contract and its features	K2
3	Explain about the agency system related to creation and termination of agency	K5
4	Compare between rights and duties of indemnity, guarantee	K5
5	Examine the distinct between sale and agreement to sell and its features	K4

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



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Principles of Management (33C) - THIRD SEMESTER

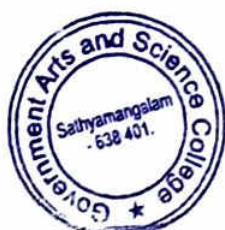
Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	Explaining the concepts based on management and its features	K2
2	Summarizing the principles and importance of planning	K2
3	Interpreting various concepts based on organization and its element	K2
4	Examining the determinants of behavior and motivation theories	K4
5	Understanding the need and techniques of communication in management	K2
K1-Remember;K2-Understand;K3 -Apply;K4-Analyze;K5-Evaluate;K6-Create		


Mathematics for Business (3AC) - THIRD SEMESTER

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 present value.	K2
2	Recall the basic concepts of addition and multiplication analysis and Input and output analysis.	K1
3	Explain of variables, constants and functions and evaluate the first and 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
K1-Remember;K2-Understand;K3 -Apply;K4-Analyze;K5-Evaluate;K6-Create		

Business Application Software I (3ZA) - THIRD SEMESTER

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	To know the basics on MS Word	K2
2	To study formatting features in MS Word	K2
3	To understand the concept of mail merge	K2
4	To gain knowledge on excel operations	K2
5	To acquire knowledge on Managing and Analyzing Complex Worksheet	K2
K1-Remember;K2-Understand;K3 -Apply;K4-Analyze;K5-Evaluate;K6-Create		




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Corporate Accounting I (43A) – FOURTH SEMESTER

Expected Course 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

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

Computer Applications in Business (43B) - FOURTH SEMESTER

Expected Course Outcomes:

On the successful completion of the course, student will be able to:

1	Recall the various concepts relating to computer and its various parts	K1
2	Understand the meaning of software's, operating system etc	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

1	Recall various terms of computer and its part	K1
2	Understand them Learning 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

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



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Company Law and Secretarial Practice (43C) - FOURTH SEMESTER

Expected Course 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 Liabilites of corporate directors	K2
3	Analyzing various winding up procedures, regulations and formalities under law	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

Executive Business Communication (43D) - FOURTH SEMESTER

Expected Course 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

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

BankingTheory (43E) - FOURTH SEMESTER


Expected Course Outcomes:

On the successful completion of the course, student will be able to:

1	Illustrate the classification of commercial banks ,functions and credit creation	K2
2	Outline the recent trade in banking	K2
3	Analyze the functions of central banks and its credit controlling measures	K4
4	Examine the concepts of Indian Money Market	K4
5	Explain the role of SBI Commercial banks and Development banks	K5

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




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**Computer Applications: MSWord And MSeXcel Practical-I (4ZP) -
FOURTH SEMESTER**

Expected 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.	K2
2	Create customers list using mail merge for sending letters to the Respondents at a time.	K6
3	Generate the database using MS-Word and excel.	K3
4	Execute and apply various statistical tools available in MS-excel for the business enterprise transactions.	K4
5	Apply various statistical tools available in MS-excel for the business enterprise transactions	K4
K1-Remember;K2-Understand;K3 -Apply;K4-Analyze;K5-Evaluate;K6–Create		

STATISTICS FOR BUSINESS (4AD) - FOURTH SEMESTER

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	Understand the basic concepts of arithmetic and geometric mean and Different types of data collection.	K2
2	Recall measures of dispersion.	K1
3	Execute correlation and regression analysis.	K3
4	Understand the analysis of data.	K2
5	Analyze interpolation and probability	K4
K1-Remember;K2-Understand;K3 -Apply;K4-Analyze;K5-Evaluate;K6-Create		




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Corporate Accounting-II (53A) – FIFTH SEMESTER

Expected Course 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
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

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

Banking Law and Practices (53B) - FIFTH SEMESTER

Expected Course Outcomes:

On the successful completion of the course, student will be able to:

1	Remembering the various terms and concepts used in banking industry	K1
2	Understanding the various process and activities of accounts in banks	K2
3	Outline various features of Cheques for easy and simple banking	K2
4	Examine the various loans and advance related processing banks	K4
5	Classifying various kind of documents involved in banking services	K2

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

Cost Accounting (53C) - FIFTH SEMESTER

Expected Course Outcomes:

On 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 Cost and Financial Statements.	K4

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



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Income Tax Law and Practices (53D) – FIFTH SEMESTER

Expected Course Outcomes:

On the successful completion of the course, student will be able to:

1	Outline the various in income tax	K1
2	Understand the method of calculating and levying tax	K2
3	Apply the various tax laws and available provisions in tax computations	K3
4	Evaluate the set off and carry forward of losses while calculating personal income	K5
5	Analyze self-assessment of income and tax computation	K4

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

Business Application Software II (5ZC) - FIFTH SEMESTER

Expected Course Outcomes:

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 database using MS-Access	K2
5	Examine the Filtering and Querying Tables	K2

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

Business Finance (5EA) - FIFTH SEMESTER

Expected Course Outcomes:

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	List the capitalization concept and related theories for decision making	K4

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



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Management Accounting (63A) – SIXTH SEMESTER

Expected Course 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

Principles of Auditing 63B) - SIXTH SEMESTER

Expected Course Outcomes:

On the successful completion of the course, 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 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

Indirect Taxes (63C) - SIXTH SEMESTER

Expected 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 pro to types	K2
5	Examine the custom law and related duties and taxes	K4

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



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Entrepreneurial development (6EA) - SIXTH SEMESTER

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

Financial Markets (6ED) - SIXTH SEMESTER

Expected 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	Explain the role of banks and intermediaries in financial market	K4
5	Apply various trends and new modes in financing	K3
K1-Remember;K2-Understand;K3 -Apply;K4-Analyze;K5-Evaluate;K6-Create		




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Degree ___ B.A ECONOMICS

PROGRAMME OUTCOMES (POs)

On successful completion of the B.A program	
PO1	Creation of knowledge in fundamentals of Economics, application of Economics with the help of Mathematics, Statistics and Computer Applications is a strong foundation for UG Students.
PO2	:Train the students to understand the concepts and theories in Economics to practical problems solving in the real world.
PO3	Decision making and evaluate the solutions for useful complex economic issues and train the students to meet the specified needs to resolve complex economic problems.
PO4	Train the students in Industrial, Agricultural and Service sector economics. This will be helpful for them to get into the concern sector for their Job Oriented goals.
PO5	:Create knowledge and select the issues to adopt the techniques to understand resource allocation and Macro Economic policies in Indian Economy.
PO6	:By way of getting complete knowledge in Economics may helpful for them to commit for the professional Ethics and responsibilities taken by them in their professional Career.
PO7	Students of undergraduate in Economics are practiced for Basic knowledge in Economics, Mathematics, Statistics and Accountancy. This type of getting knowledge may helpful to students to clear any kind of basic Competitive Examinations.
PO8	Knowledge in Economics and creation of domain knowledge will be effectively served to the students to understand the Society, Societal complex problems and for attainment of Comprehensive Solutions.



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COURSE OUTCOMES (Cos)

Subject: Micro conomics -Sub Code:13A

Semester - I

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	To improve the knowledge of students on the basics of Micro Economics	K1
2	To analyze the economic relationship between the variables.	K2
3	To enhance the skills of students in the measurement of variables and relationship	K3
4	To improve the attitude of students towards economic laws	K4
5	To generate an interest in the application of economics for business decision, planning and forecasting.	K6
K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create		

Subject: Agricultural Economics Sub Code: 13B

Semester - I

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	To improve the knowledge of students on the status of agricultural sector.	K1
2	To encourage the skills of students in the measurement of productivity.	K2
3	To stimulate the students in the applications of Agricultural economics in pricing.	K3
4	To engage the students in the analysis of debt crisis in the farm sector.	K4
5	To prepare on proactive attitude towards the internal and external changes in the agricultural sector.	K6
K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create		

Subject: History of India From 1600 A.D. To 1857 A.D. Sub Code: 1AC

Semester-I

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	Know the effects of the coming of the Europeans in India.	K1
2	Recall the importance of European settlements in India.	K1
3	Understand the achievements of the Portuguese in India.	K2




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4	Describe the causes for the outbreak of Carnatic Wars.	K4
5	Recognize the magnificent Governor generals.	K4
K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create		

Subject: __ Micro Economics- II Sub Code: 23A

Semester - II

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	To improve the knowledge of students on the markets and competition.	K1
2	To analyze the business decision process	K2
3	To improve the skill of students in the findings of market equilibria.	K3
4	To motivate the students improving their attitude towards the logics of factor pricing	K4
5	To enhance the applicability of ideas and concepts.	K6
K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create		

Subject: History of Economic Doctrine- Sub Code: 23B

Semester - II

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	To create knowledge on the evaluation of economic ideas...	K1
2	To increase a positive attitude towards economic ideas	K2
3	To make the analytical interest in the Marxian Economics	K3
4	To understand the application of economic theories.	K4
5	To enhance the applicability of ideas and concepts	K6
K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create		



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Subject: History of India From 1858 A.D To 1964 A.D Sub Code: 2AC

Semester- II

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	Recall the role of Freedom Fighters in the freedom movement.	K1
2	Understand the Gandhian principles which paved the way to freedom in India.	K2
3	Identify TamilNadu as a pioneer in the freedom movement.	K3
4	Analyse the working of social movements to reform the society.	K4
5	Estimate the role of Nehru and Kamaraj as the makers of the modern India.	K6
K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create		

Subject: Macro Economics-I Sub Code: 33A

Semester - III

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	Understand the evolution of Macro Economics and also know the difference between micro and macro economics.	K1
2	Examine the various concepts of National income Accounting and issues related to measurement of National income, and also develop an environmental concern in economic activities	K2
3	Comprehend the classical theory of output, employment and income and consumption function.	K3
4	Apply the knowledge to understand the Consumption function and theories of consumption function.	K4
5	Gain the knowledge about various concepts of investment, determinants of investment, role of MEC.	K6
K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create		



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Subject: Statistical Methods Sub Code: 33B

Semester- III

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	To get knowledge of method of collecting data.	K1
2	To understand the skill of draw the various diagram and graphical representation.	K2
3	To improve the analytical skill of measures of Central Tendency.	K3
4	To analyse the Correlation and Regression	K4
5	To acquire the knowledge on index numbers	K6
K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create		

Subject: Business Management for Economics Sub Code: 3AC

Semester- III

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	To get the knowledge of nature and functions of management.	K1
2	To acquire skill of various management planning.	K2
3	To know the forecasting techniques and decision making.	K3
4	To acquire knowledge of manpower planning, motivation theory and communication barriers and importance	K4
5	To understand the importance of leadership in business scenario.	K6
K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create		

Subject: Financial Accounting Sub Code: 3ZA

Semester - III

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	To recall the basic accounting principles and techniques.	K1
2	To get knowledge of double entry system, Journals, Ledger and trial balance.	K2
3	To understand the ideas of bank reconciliation statement.	K3
4	To get application knowledge of preparing final accounts.	K4
5	To enhance the application knowledge of Single Entry System, Income & Expenditure Account and Balance Sheet.	K6
K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create		



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Subject: Macro Economics II Sub Code: 43A**Semester - IV**

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	To Explain the principle of Multiplier and Accelerator, Super Multiplier.	K1
2	To Attain the knowledge in classical and Keynesian theories of income and employment.	K2
3	To Analyze the various phases of trade cycle and the theories of trade cycles.	K3
4	To Understand the working conditions of product and money market, Shift in IS and LM curves	K4
5	To Explain the Economic role of monetary and fiscal policies in developing Economy.	K6
K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create		

Subject: Mathematical Economics Sub Code: 43B**Semester - IV**

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	To create the fundamental knowledge in Mathematics.	K1
2	To encourage the students to understand the concepts	K2
3	To train the students in the analysis of economics issues.	K3
4	To help the students to calculate the changes in basic economic variables	K4
5	To prepare students in decision making .	K6
K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create		

Subject: Computer Application In Economics Sub Code: 4AC**Semester - IV**

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	To improve the knowledge of students in computer.	K1
2	To encourage the students to acquire knowledge on the basic concepts of computer in economics.	K2
3	To provide knowledge on business applications.	K3
4	To provide the students to develop computer skills and its applications in economics and business.	K4
5	Useful to students to get practical knowledge for their employment purposes.	K6
K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create		



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Subject: Monetary Economics Sub Code: 53A

Semester - V

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	To help the students to know about the importance of money in the economy.	K1
2	Make to learn about theories of money.	K2
3	To acquaint the students with the working of money and financial markets.	K3
4	To encourage the students to learn about the role of money in different business situations.	K4
5	Help the students to know about the importance of banking system in the economy.	K6
K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create		

Subject: Indian Economic Development And Policies Sub Code: 53B

Semester - V

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	Understand the new economic reforms and the schemes of central and state Government.	K1
2	Assessing the role and growth of agriculture and its impact on rural development.	K2
3	Examining the population growth in India and its impact on the economy.	K3
4	To measure the infrastructural facilities and its role in economic development.	K4
5	To analyze the problems of the regional economy.	K6
K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create		

Subject: International Economics Sub Code: 53C

Semester - V

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	To understand the basic concepts of International Trade.	K1
2	To evaluate and apply the comparative cost theory.	K2
3	To examine the balance of payments and the terms of trade in an economy.	K3
4	To analyse the exchange rate of the economy.	K4
5	To assess the functioning of the international financial institutions.	K6
K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create		



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Subject: Entrepreneurship Development Sub Code: 53D**Semester - V**

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	To acquire the knowledge regarding characteristics of an entrepreneur	K1
2	To develop an interest in entrepreneurial activity	K2
3	To equip them with entrepreneurial skills for self-employment	K3
4	To assess the training and financial facilities available for entrepreneurs	K4
5	To understand the business correspondence and communication	K6
K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create		

Subject: Elective-I Investment Policies And Programme Sub Code: 5EC**Semester - V**

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	Enlighten the students about the investment policies.	K1
2	Understanding the market instruments.	K2
3	Understanding and analyzing the various issues related to share market.	K3
4	Provide the knowledge of various issues related to portfolio selection.	K4
5	To educate the students about Mutual funds in a modern economy.	K6
K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create		

Subject: Computer System-I Sub Code: 5ZC**Semester - V**

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	To understand the basic concepts of computer	K1
2	To analyse the input devices of the computer	K2
3	To examine the output devices of a computer	K3
4	To work practically with tally ERP	K4
5	To enable students to work on different kinds types of vouchers	K6
K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create		




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Subject: Fiscal Economics Sub Code: 63A

Semester - VI

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	To create knowledge on the scope of fiscal economics.	K1
2	To analyze public revenue and the impact of taxation	K2
3	To assess the impact of public expenditure	K3
4	To understand public debt and the budgetary procedure	K4
5	Application of fiscal instruments on the economy	K6
K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create		

Subject: Industrial Economics Sub Code: 63B

Semester - VI

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	To understand the factors determining the size of the firm.	K1
2	To examine the factors affecting the location of an industry	K2
3	To understand the impact of industrial finance	K3
4	To evaluate the Industrial policies	K4
5	To assess the Industrial Productivity	K6
K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create		

Subject: Environmental Economics Sub Code: 63C

Semester - VI

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	To familiarize with the theories of environmental economics.	K1
2	To examine the practical environmental problems and offer solutions.	K2
3	To analyze the regulations and prohibition measure to protect the environment	K3
4	To assess India's environmental policies	K4
5	To measure the government activity against environmental problem	K6
K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create		




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Subject: Elective - II Journalism Sub Code: 6EC**Semester - VI**

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	To understand the importance of mass communication .	K1
2	To assess the importance of the Indian press.	K2
3	To examine the sources of news and the importance of correspondents..	K3
4	To evaluate the purpose of Editors.	K4
5	To analyse the importance of newspaper management.	K6
K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create		

Subject: Elective - III Rural Economics Sub Code: 6ED**Semester - VI**

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	Understand the concepts and problems of rural economy.	K1
2	Analyse the structure of rural unemployment and the technology used for rural growth.	K2
3	Examine the extent of rural indebtedness, and the measures to remove rural unemployment.	K3
4	Evaluate the causes and consequences of Rural Poverty, and describe the Poverty Alleviation Programmes.	K4
5	Improve the knowledge about the tribal economy and analyse the tribal agricultural activities.	K6
K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create		

Subject: Computer System-II Sub Code: 6ZC**Semester - VI**

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	To understand MS office Basics.	K1
2	To analyze MS Word.	K2
3	To evaluate and work with MS Exce.l	K3
4	To work with MS Power Point.	K4
5	To understand MS Access.	K6
K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create		




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e-Mail: gascathy@gmail.com

Phone : 04295-297141

2.6.1 Programme Outcomes (Pos) and Course Outcomes (Cos) for all Programmes offered by the institution are stated and displayed on website and attainment of Pos and Cos are evaluated.

B.A., ENGLISH LITERATURE

PROGRAMME OUTCOMES (POs)

On successful completion of the BA ENGLISH LITERATURE program	
PO1	Prove their knowledge and skills in Language and Literature.
PO2	Prove his proficiency in Listening Speaking Reading Writing.
PO3	Analyse a literary text of any genre like poetry, drama, prose, short story and fiction.
PO4	Apply the knowledge of literary theories in analyzing the literary text.
PO5	Writes imple poems, shortstories and essays.
PO6	Work as a leader and work in a team effectively in the fields related to Language and Literature.
PO7	Understandtheneedforlifelonglearningandhonetherequiredskillsrelatedto the industry.
PO8	Analyse the impact of literature on society and work for the betterment of the society.



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COURSE OUTCOMES (Cos)**Subject: PROSE I Sub Code: 13A FIRST SEMESTER**

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	Comprehend prose passages	K1, K2
2	Enhance reading skill	K2& K3
3	Analyze the structure and style of Prose pieces	K4
4	Create simple paragraph	K6
K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create		

Subject: FICTION I Sub Code: 13B FIRST SEMESTER

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	Understand the plot, setting and structure	K2
2	Identify the techniques used in Fictional writing	K3
3	Analyze various themes in the fiction	K4
4	Evaluate the role of major and minor characters	K5
K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create		

Subject: SOCIAL HISTORY OF ENGLAND Sub Code: 1AA**FIRST SEMESTER**

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	Understand the impact of society on Literature	K2
2	Inter link the history of England with British English Literature	K3
3	Analyse the socio-cultural aspects of the society on Literature	K4
4	Evaluate the literary work by considering its historical aspects	K5
K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create		



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Subject: POETRY I Sub Code: 23A SECOND SEMESTER

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	Gain knowledge of poetry of different ages	K1
2	Understand the literary terms and devices	K2
3	Analyse a poem	K4
4	Learn new dimensions in connecting emotions and languages and create simple Poems	K6
K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create		

Subject: DRAMA I Sub Code: 23B SECOND SEMESTER

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	Understand and enjoy reading plays	K2
2	Identify the elements of Drama	K3
3	Analyse the plays thematically	K4
4	Evaluate the characters of the plays	K5
K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create		

Subject: HISTORY OF ENGLISH LITERATURE Sub Code: 2AA

SECOND SEMESTER

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	Gain knowledge of the History of Literature and great authors of English.	K2
2	Inter connect the history, biography of the author and the works	K3
3	Analyse the growth of literary genres of specific periods	K4
4	Evaluate the role of literary movements and their impact on the literary works	K5
K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create		



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Subject: PROSE II Sub Code: 33A THIRD SEMESTER

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	Gain knowledge on Prose writing	K1
2	Identify the literary devices used in writing prose	K3
3	Analyse the variety of prose pieces	K4
4	Create a simple and short prose passage	K6
K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create		

Subject: FICTION II Sub Code: 33B THIRD SEMESTER

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	Understand the socio-cultural aspect of the society with the help of fiction	K2
2	Identify the literary elements in fiction	K3
3	Analyse the plot, character and the techniques in the fiction	K4
4	Evaluate the work of fiction contemporary Novelists	K5
K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create		

Subject: LITERARYFORMS Sub Code: 3AA THIRD SEMESTER

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	Understand different literary forms and their characteristics	K2
2	Differentiate various literary devices	K4
3	Identify literary devices in a work, compare the genres and their features	K3
4	Attempt a simple creative writing	K6
K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create		




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Subject: JOB ORIENTED COURSE Paper I Sub Code: 3ZA

THIRD SEMESTER

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	Master framing sentence on different pattern	K3
2	Apply grammar in Speaking and writing	K3
3	Prepare grammatically correct passages	K4
4	Present short features.	K6
K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create		

Subject: POETRY II Sub Code: 43A FOURTH SEMESTER

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	Gain intense knowledge of poetry	K1
2	Understand the literary importance of each poetry	K2
3	Critically analyse poetry	K4
4	Create simple poem by using literary devices	K6
K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create		

Subject: DRAMA II Sub Code: 43B FOURTH SEMESTER

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	To carry in depth knowledge of play	K2
2	Analyse the literary devices used in plays	K3
3	Critically evaluate the plays	K4
4	Able to enact the play	K5
K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create		



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Subject: LITERARY CRITICISM Sub Code: 4AA

FOURTH SEMESTER

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	Carry Knowledge of leading Critics and their method of criticism	K2
2	Understand the different schools of criticism and their theories	K4
3	Interconnect the society, literature and literary criticism to analyse a text	K3
4	Evaluate a literary text by applying the ideas of the critics	K6
K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create		

Subject: JOB ORIENTED COURSE- Paper II Sub Code: 4ZB

FOURTH SEMESTER

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	Transform sentences into different kinds and learn synthesis & transformation of sentences	K1
2	Apply grammar in LSRW	K2
3	Analyse the usage of words, comprehend the writings and composition	K3
4	Adapt professional Writing	K5
K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create		

Subject: ENGLISH LANGUAGE TEACHING Sub Code: 53A

FIFTH SEMESTER

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	Understand the language teaching strategies	K1
2	Know the methods and approaches in English language teaching	K2, K3
3	Understand the components of English language teaching and improving the teaching skills	K4
4	Create an eclectic method suitable for the class	K6
K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create		




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FIFTH SEMESTER

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	Familiar with the prominent writers of Indian Writing in English	K2
2	Compare the Indian Writing in English with British Literature	K3
3	Critically analyse the works of Indian Writing in English	K4
4	Evaluate the social issues represented in the literary text	K6
K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create		

Subject: AMERICAN LITERATURE

Sub Code: 53C

FIFTH SEMESTER

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	Understand the diverse group of American authors and their style of writing	K2
2	Analyse the key ideas, representation of cultural events of historical periods.	K4
3	Compare American Literature with Indian Writing in English	K5
4	Create a simple creative writing based on prescribed literary pieces	K6
K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create		

Subject: COMMONWEALTH LITERATURE Sub Code:53D

FIFTH SEMESTER

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	Comprehend the works of prominent authors in commonwealth Literature	K2
2	Compare the style of commonwealth writing	K3
3	Present critical analyse of prescribed literary works	K4
4	Evaluate the commonwealth literature with the help of knowledge gained on different cultures	K5
K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create		



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Subject: VALUE ADDED COURSE – Paper I Study of English Phonetics 1
Sub Code: 5ZC FIFTH SEMESTER

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	Learn phonetics symbols with sounds	K1
2	Use right accent and rhythm in speaking	K2
3	Analyze the syllable and accent	K4
4	Classify the speak sound	K5
K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create		

Subject: SHAKESPEARE Sub Code: 63A Semester: SIXTH SEMESTER

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	Intensive knowledge on Shakespearean plays	K2
2	Analyse the universal characterization of Shakespeare	K4
3	Evaluate the versatile writings of Shakespeare	K2, K5
4	Enact a scene from Shakespearean play	K3
K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create		

Subject: GENDER STUDIES Sub Code: 63B SIXTH SEMESTER

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	Understand the layers of meaning in the writings of women writers	K2
2	Analyse the female consciousness in literary works	K4
3	Explore the gender issues in the literary works of women writers	K2, K5
4	Know the various social discriminations towards womenfolk through the literary works literary works	K3
K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create		



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Subject: INDIAN LITERATURE IN ENGLISH TRANSLATION
Sub Code:63C SIXTH SEMESTER

Expected Course Outcomes:

On the successful completion of the course, student will be able to:

1	Understand the translated works and its nuances.	K2
2	Analyse the works with the help of literary theory, translate simple works of their mother tongue into English Language	K3
3	Knowledge on the ethics and impact of translations in Literature	K4
4	Compare regional literature with English Literature	K5

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

Subject: VALUE ADDED COURSE –Paper II Study of English Phonetics II

Sub Code:6ZD SIXTH SEMESTER

Expected Course Outcomes:

On the successful completion of the course, student will be able to:

1	The concept of general Indian English	K2
2	Apply intonation accent rhythm in Speaking	K3
3	Master phonetics symbols and sounds	K4
4	Transcript into Phonetic language	K5

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



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DEPARTMENT OF BUSINESS ADMINISTRATION

PROGRAMME AND COURSE OUTCOMES

PROGRAMME OUTCOMES

At the end of the programme the learner will be able to

PO1	Develop the knowledge, skill and attitude to creatively and systematically apply the principles and practices of management, accountancy, finance, business law, statistics, HR, operations and IT to management problems and work effectively in modern day business and non-business organizations.
PO2	Develop fundamental in-depth knowledge and understanding of the principles, 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.
PO3	Demonstrate the critical thinking mindset and the ability to identify and formulate research problems, research literature, design tools, analyze and interpret data, and synthesize the information to provide valid conclusions and contextual approaches across a variety of subject matter.
PO4	Exhibit self-confidence and awareness of general issues prevailing in the society and communicate effectively with the accounting, commerce, management, business, professional fraternity and with society at large through digital and 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 multidisciplinary settings by demonstrating life skills, coping skills and human values.
PO6	Analyze the sampling techniques of collecting primary and secondary data and tools and techniques of data.
PO7	Understand the methods of collecting primary and secondary data. Construction of scaling techniques and Determine the steps involved in design of questionnaire. Analyze and preparation of project report for the Functional areas of research.



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PO8	Determine the functional areas of management such as Production, purchasing, marketing, sales, advertising, finance, human resource system, Industry 4.0 Understand the SERQUAL of the various service industries.
PO9	Analyse the various aspect of business research in the area of marketing, human resource and Finance.
PO10	Analyse the various financial and accounting concept including Balance sheet , trial balance, etc.,

Course Code	13A	PRINCIPLES OF MANAGEMENT	L	T	P	C
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 managers.					K1
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.					K3
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create						

Course code	13B	BASICS OF BUSINESS & BUSINESS ENVIRONMENT	L	T	P	C
Expected Course Outcomes:						
On the successful completion of the course, student will be able to:						
1	Develop an understanding on the gamut of business activities					K2
2	Explain the intricacies in starting a business and knowing the suited business form					K2
3	Design a business model in order to analyze its sustainability					K3
4	Comprehend the environmental factors that are conducive /detrimental to the respective businesses					K4
5	Have a simple and basic comprehension of the international scenario with regard to borderless business world					K5
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create						



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Course Code	1AA	MATHEMATICS AND STATISTICS FOR MANAGEMENT	L	T	P	C
Expected Course Outcomes:						
On the 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 - Create						

Course Code	23A	ORGANISATIONAL BEHAVIOUR	L	T	P	C
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 organizational behaviour on the process of management					K4
2	Identify various theories of motivation from the past and to evaluate motivational strategies used in a variety of organizational settings					K5
3	Enhance productivity of the organization by ensuring required job satisfaction and employee attitude.					K3
4	Understand the supervisory effects on performance and to train supervisors by understanding different supervision styles.					K2
5	Evaluate the appropriateness of various leadership styles and counseling methods					K5
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create						




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Course Code	23B	ECONOMICS FOR EXECUTIVES	L	T	P	C
Course Objectives:						
The main objectives of this course are to make the students to understand the objectives of business firms, Demand analysis and Elasticity of demand, BEP Analysis and further to make them familiarize about types of competitions and price administration and enhance their knowledge on Inflation, Deflation and analyze the causes of Inflation..						
Expected Course Outcomes:						
On the successful completion of the course, student will be able to:						
1	Apply the objectives of business firms, demand analysis and elasticity of demand in daily life and in their career.					K6
2	Identify the effective applications of factors of production and BEP Analysis					K3
3	Understand the determination of the Price, Market structure and competition.					K2
4	Describe the objectives and effectiveness of monetary policy and fiscal policy					K4
5	To gain Knowledge on Inflation, Deflation and effects of inflation.					K5
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create						

Course Code	2AA	QUANTITATIVE TECHNIQUES FOR MANAGEMENT	L	T	P	C
Course Objectives:						
The main objective of this course is to make the students to gain knowledge about various concepts of Operations Research and to identify and develop operational research models from the verbal description of the real system and train them to apply the operations research tools that are needed to solve optimization problems.						
Expected Course Outcomes:						
On the 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 – Create						





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SECOND SEMESTER

Course Code	33A	FINANCIAL ACCOUNTING	L	T	P	C
Expected Course Outcomes:						
On 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
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyse; K5 - Evaluate; K6 – Create						

Course Code	33B	PRODUCTION AND MATERIALS MANAGEMENT	L	T	P	C
Expected 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 And vendor rating and development.					K2
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						




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Course code	33C	MARKETING MANAGEMENT	L	T	P	C
Expected 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 – Create						

Course Code	33P	PC SOFTWARE (MS OFFICE) – PRACTICAL	L	T	P	C
Expected 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 real-world data.					K5
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyse; K5 - Evaluate; K6 – Create						




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Course code	3AC	BUSINESS LAW	L	T	P	C
Expected Course Outcomes:						
On 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					K2
3	To construct the relationship of ethics and law in business					K3
4	Applying basic principles of law to business and business transactions					K4
5	Implementing current law, rules and regulations related to settling business Disputes					K5
K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6- Create						

SEMESTER IV

Course code	43A	HUMAN RESOURCE MANAGEMENT	L	T	P	C
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.					K3
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.					K3
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						

Course Code	43B	FINANCIAL MANAGEMENT	L	T	P	C
Expected Course Outcomes:						
On the 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
K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6- Create						




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Course Code	43P	FINANCIAL ACCOUNTING PACKAGE TALLY – PRACTICAL	L	T	P	C
Expected Course Outcomes:						
On the successful completion of the course, students will be able to:						
1	Understand basic Accounting concepts and principles					K3
2	Be able to generate Accounting and Inventory Masters, Vouchers and Basic Reports in Tally					K4
3	Understand Advanced Accounting and Inventory in Tally. ERP 9					K3
4	Have an understanding of Advanced Accounting and Inventory in Tally.ERP 9					K4
5	Understand basic concepts and practical application of VAT, CST, TDS and Service Tax					K2
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyse; K5 - Evaluate; K6 – Create						

Course Code	4AD	TAXATION LAW AND PRACTICE	L	T	P	C
Expected Course Outcomes:						
On 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.					K3
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 – Create						



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Semester v

Course Code	53A	COST AND MANAGEMENT ACCOUNTING	L	T	P	C
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
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create						

Course Code	53B	RESEARCH METHODS FOR MANAGEMENT	L	T	P	C
Expected Course Outcomes:						
On the successful completion of the course, student will be able to:						
1	Understand fundamental concepts of research, types and research process.					K2
2	Summarize the sampling design and scaling techniques.					K2
3	Construct a method for data collection and able to edit, code, classify and tabulate 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-Remember; K2 -Understand; K3-Apply; K4-Analyze; K5-Evaluate; K6-Create						

Course Code	53C	ADVERTISING AND SALES PROMOTION	L	T	P	C
Expected Course Outcomes:						
1	To Identify advertising mediums, both traditional, new and experimental					K1
2	To understand the function of Advertising Agencies					K1
3	To understand the principles of advertising layout and campaign					K2
4.	To Learn to use sales promotions to push sales and attract buyers.					K3
5.	To Identify advertising mediums, both traditional, new and experimental					K1
K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze, K5 – Evaluate; K6 – Create						



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Course code	53D	BUSINESS CORRESPONDENCE	L	T	P	C
Expected Course Outcomes:						
On the successful completion of the course, student will be able to:						
1	Learn and apply effective written communication techniques.					K3
2	Review and refine communications skills.					K4
3	Developing and delivering effective presentations.					K6
4	Determine and use proper psychological approach in writing situations.					K4
5	Skills that maximize team effectiveness in the world of work.					K5
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create						

SEMESTER – VI

Course code	63A	ENTREPRENEURSHIP AND SMALL BUSINESS MANAGEMENT	L	T	P	C
Expected Course Outcomes:						
On the successful completion of the course, student will be able to:						
1	Define who is an Entrepreneur and what his or her characteristic features are, what skills make them successful and what qualities are required to become an Entrepreneur.					K1
2	Foster the students in the areas of entrepreneurial growth and equip with different entrepreneurial development programmes.					K2
3	Project management is a powerful discipline in the core areas of project lifecycle and to know about the roles and responsibilities of a project manager.					K3
4	Discriminate the benefits of delivering the project identification and selecting the successful project with the various guidelines issued by the authorities.					K5
5	Classify the various sources of business finance and identify the different institutions that support entrepreneurs.					K4
K1-Remember; K2-Understand; K3-Apply; K4-Analyze; K5-Evaluate; K6–Create						



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Course code	63B	INVESTMENT MANAGEMENT FOR BBA	L	T	P	C
Expected Course Outcomes:						
On the successful completion of the course, student will be able to:						
1	Understand the fundamental concepts of investment.					K1
2	Design an investment model in order to analyze its sustainability.					K3
3	Utilize the management tools and techniques to take appropriate investment decisions.					K3
4	Develop skills in trading.					K4
5	Evaluating investment theories.					K5
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create						

Course code	63C	SERVICES MARKETING	L	T	P	C
Expected Course Outcomes:						
On the successful completion of the course, student will be able to:						
1	Examine the nature of services, and distinguish between products and services					K1
2	Identify the major elements needed to improve the marketing of services					K3
3	Develop an understanding of the roles of relationship marketing and customer service in adding value to the customer's perception of a service					K3
4	Appraise the nature and development of a services marketing strategy					K4
5	Recognise how services marketing principles can be used as a conceptual framework to help managers identify and solve marketing problems					K5
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create						

Course code	5ZV	CAMPUS TO CORPORATE	L	T	P	C
Expected Course Outcomes:						
On the successful completion of the course, student will be able to:						
1	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
4	Demonstrate a good command in responding to any queries					K4
5	Achieve the desired result thro proper evaluation of competencies and be creative					K5, K6
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create						



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Course code	6ZV	SOFT SKILLS FOR BUSINESS	L	T	P	C
Expected Course Outcomes:						
On 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 - Create						

LIST OF ELECTIVES

ELECTIVE-I

Course code	5EB	MODERN OFFICE MANAGEMENT FOR BBA	L	T	P	C
Expected Course Outcomes:						
On the successful completion of the course, student will be able to:						
1	Outline the different categories of chart against tabulated data in an electronic spreadsheet package.					K1
2	Become efficient Computer Operators and Front Office Representatives					K2
3	Apply the need of the industrial houses and organizations in term of commercial correspondence, book keeping, preparation of reports and records by operating and handling both typewriter and computer.					K3
4	Practice modern office procedures in business administration and solve problems to make the service or products more competitive.					K4
5	Design a desk top publishing page which contains text, chart and graphics					K6
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create						




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Elective II

Course Code	6EB	INDUSTRIAL RELATIONS AND LABOUR LAW <i>FOR BBA, BB(CA), BBA(IB)&BBA(RM)</i>	L	T	P	C
Expected Course Outcomes:						
On the successful completion of the course, student will be able to:						
1	Develop an understanding on industrial relation determinates of IR and IR scenario in India.					K1
2	Develop skill in negotiation with unions and conflict resolution.					K2
3	Handle grievances.					K3
4	Develop skill in collective bargaining.					K4
5	Know the application of Industrial dispute Act 1947and The Employee's State Insurance Act, 1948.					K5
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create						

Elective III

Course Code	6EG	FINANCIAL SERVICES <i>For BBA/BBA(CA)/BBA(IB)</i>	L	T	P	C
Expected Course Outcomes:						
On the successful completion of the course, student will be able to:						
1	Identify and distinguish big data analytics applications					K2
2	Describe big data analytics tools					K2
3	Explain big data analytics techniques					K3
4	Present cases involving big data analytics in solving practical problems					K4
5	Conduct big data analytics using system tools and Suggest appropriate solutions to big data analytics problems					K5
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create						



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சத்தியமங்கலம் - 638 401, ஈரோடு மாவட்டம், தமிழ்நாடு.
GOVERNMENT ARTS AND SCIENCE COLLEGE

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SATHYAMANGALAM - 638 401, ERODE DISTRICT, TAMIL NADU.

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2.6.1 Programme Outcomes (Pos) and Course Outcomes (Cos) for all Programmes offered by the institution are stated and displayed on website and attainment of Pos and Cos are evaluated.

Degree :B.Sc Computer Science

Program Outcomes (POs)	
On successful 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 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.
PO10	Enhance the research culture and uphold the scientific integrity and objectivity



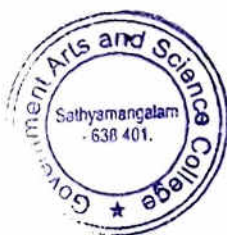
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Subject: Computing Fundamentals and C Programming
Sub code:13A
Semester:1

Expected Course Outcomes:		
On 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 Lifetime 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		

Subject: Digital Fundamentals and Computer Architecture
Sub code:13B
Semester:1

Expected Course 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 concepts related to architecture organization and addressing modes	K4
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create		

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Subject: Programming Lab – C
Sub code:13P
Semester:1

Expected Course 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		

Subject: C++ PROGRAMMING
Sub code:23A
Semester:2

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	Define the different programming paradigm such as procedure oriented and object oriented programming methodology and conceptualize elements of OO methodology	K1
2	Illustrate and 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 using overloading features.	K3
4	Discover the usage of pointers with classes	K4
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		



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Subject: PROGRAMMING LAB - C++
Sub code:23P
Semester:2

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	Define the different programming paradigm such as procedure oriented and object oriented programming methodology and conceptualize elements of OO methodology	K1
2	Illustrate and 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 using overloading features.	K3
4	Discover the usage of pointers with classes	K4
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		

Subject: Internet Basics
Sub code:23Q
Semester:2

Expected Course Outcomes:		
On 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
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create		



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Subject: Data Structures
Sub code:33A
Semester:3

Expected Course Outcomes:		
On 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		

Subject: Java Programming
Sub code:33B
Semester:3

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	The competence and the development of small to medium sized application programs that demonstrate professionally acceptable coding	K1-K2
2	Demonstrate the concept of object oriented programming through Java	K2-K4
3	Apply the concept of Inheritance, Modularity, Concurrency, Exceptions handling and data persistence to develop java program	K3
4	Develop java programs for applets and graphics programming	K3
5	Understand the fundamental concepts of AWT controls, layouts and events	K1-K2
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create		



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Subject: Programming Lab – JAVA
Sub code:33P
Semester:3

Expected Course Outcomes:		
On the 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		

Subject: Software Engineering and Software ProjectManagement
Sub code:3ZA
Semester:3

Expected Course 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 with in-depth analysis.	K3
5	To inculcate knowledge on Software engineering concepts in turn gives a roadmap to design a new software project.	K1-K4
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create		



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Subject: System Software and Operating Systems

Sub code:43A

Semester:4

Expected Course 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, deadlock , memory management and file management	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		

Subject: Linux and Shell Programming

Sub code:43B

Semester:4

Expected Course 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 it from 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.	K3
5	Build Regular expression to perform pattern matching using utilities and implement shell scripts for real time applications.	K3-K6
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create		



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Subject: Programming Lab – LINUX and SHELL PROGRAMMING

Sub code:43P

Semester:4

Expected Course Outcomes:		
On 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
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.	K4-K5
5	Create shell scripts for real time applications.	K6
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create		

Subject: Lab – Software Project Management

Sub code:4ZP

Semester:4

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	Prepare a Project Plan with requirement analysis and specification.	K1, K2
2	Understand and develop cost estimation model for real time applications.	K2-K3
3	Implement the concepts of checkpoints in design phase	K3
4	Analyze the Development phase of the database and text area of the applications.	K4-K5
5	Create SDLC for real time applications.	K6
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create		



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Subject: RDBMS & Oracle

Sub code:53A

Semester:5

Expected 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	K1-K2
2	Understand and construct database using Structured Query Language (SQL) in Oracle9i environment.	K1-K3
3	Learn basics of PL/SQL and develop programs using Cursors, Exceptions, Procedures and Functions.	K1-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 using Data Manipulation Language (DML)	K2-K4
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create		

Subject: Visual Basic

Sub code:53B

Semester:5

Expected Course 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 as command, menus and toolbars.	K1
2	Implement SDI and MDI applications using forms, dialogs and other types of GUI components.	K2
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 practical skill of managing ODBC and Data Access Objects	K2-K4
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create		



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Subject: Programming Lab –VB & Oracle
Sub code:53P
Semester:5

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	Understand the concepts of Visual Basic.	K1
2	Learn the advantages of Controls in VB	K2
3	Design and develop the event- driven applications using Visual Basic framework.	K3
4	Apply the knowledge of database 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		

Subject: Computer Networks Elective : I
Sub code:5EB
Semester:5

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	Remember the organization of computer networks, factors influencing computer network development and the reasons for having variety of different types of networks.	K1
2	Understand Internet structure and can see how standard problems are solved and the use of cryptography and network security.	K2
3	Apply knowledge of different techniques of error detection and correction to detect and solve error bit during data transmission.	K3
4	Analyze the requirements for a given organizational structure and select the most appropriate networking architecture and technologies	K4
5	Knowledge about different computer networks, reference models and the functions of each layer in the models	K2-K4
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create		




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Subject: Software Testing
Sub code:5ZC
Semester:5

Expected Course Outcomes:		
On the successful completion of the course, student will be able 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 test cases from Source code by means of white box testing techniques	K3
4	Know about user acceptance testing and generate test cases for it	K4
5	Examine the test adequacy criteria to complete the testing process	K4
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create		

Subject: Graphics & Multimedia
Sub code:63A
Semester:6

Expected Course 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 Line/surface elimination techniques	K3
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
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create		




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Subject: Project Work Lab
Sub code:67V
Semester:6

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	Formulate a real world problem and develop its requirements develop a design solution for a set of requirements.	K3
2	Test and validate the conformance of the developed prototype against the original requirements of the problem.	K5
3	Work as a responsible member and possibly a leader of a team in developing software solutions.	K3
4	Express technical ideas, 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 them and select the optimum one.	K6
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create		

Subject: Programming Lab – Graphics & Multimedia
Sub code:63P
Semester:6

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	Understand the basic concepts of computer graphics.	K1
2	Design scan 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 objects in 2D.	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		




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Subject: Web Technology Elective: II
Sub code:6EC
Semester:6

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	Understand and analyse the TCP/IP basics.	K1
2	Understand Domain server name, FTP, TFTP, basics of WWW, web browser architecture.	K2
3	Knowledge of Microsoft and java technologies, dynamic web pages, DHTML, ASP and JSP.	K2-K3
4	Understanding active web pages, Java Applet, Java bean, CORBA, RMI and EDI architecture	K2-K3
5	Knowledge on XML, XML parser, WAP	K4-K6
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create		

Subject: Data Mining Elective: III
Sub code:6ED
Semester:6

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	Identify data mining tools and techniques in building intelligent machines understand	K1-K2
2	Analyze various data mining algorithms in applying in real time 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 transactional databases.	K2-K3
5	Perform exploratory analysis of the data to be used for mining.	K3-K6
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create		



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Subject: Open Source Software Elective: III
Sub code:6EE
Semester:6

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	Understand the significance of open source practices and guidelines.	K2
2	Manipulate open source databases based on user requirements	K3
3	Implement web programming with PHP	K3
4	Integrate open source web frameworks in an application	K4
5	Write desktop and web applications with Python	K6
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create		

Subject: Internet of Things (IoT) Elective: III
Sub code:6EF
Semester:6

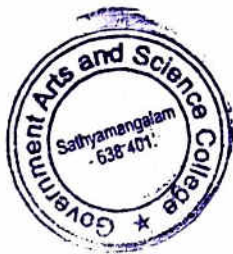
Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	To understand the fundamentals of Internet of Things.	K1
2	To know the basics of communication protocols and the designing principles of Web connectivity.	K2
3	To gain the knowledge of Internet connectivity 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
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create		




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Subject: Programming Lab –Software Testing
Sub code:6ZP
Semester:6

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	Understand the importance of software quality/software testing and apply software testing techniques for information systems development.	K1
2	Generate test cases from software requirements using various test processes for continuous quality improvement.	K2
3	Understand flow graphs and apply path testing.	K3
4	Apply software testing techniques in commercial environments and assess the adequacy of test suites using control flow, data flow and program mutation.	K4
5	Identify the inputs and deliverables of the testing process and work together as a team in preparing a report	K6
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create		



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சக்தியமங்கலம் - 638 401, ஈரோடு மாவட்டம், தமிழ்நாடு.
GOVERNMENT ARTS AND SCIENCE COLLEGE

(Recognized u/s 2(f) & 12 (B) of the UGC Act, 1956. A Co-educational institution affiliated to Bharathiar University, Coimbatore)

SATHYAMANGALAM - 638 401, ERODE DISTRICT, TAMIL NADU.

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2.6.1 Programme Outcomes (Pos) and Course Outcomes (Cos) for all Programmes offered by the institution are stated and displayed on website and attainment of Pos and Cos are evaluated.

DEGREE:BCA

PROGRAMME OUTCOMES (POs)

On successful completion of the BCA program	
P01	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.
P02	Scientific reasoning/ Problem analysis: Ability to critically analyze, categorizes, formulate and solve the problems that emerges in the field of computer science.
P03	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.
P04	Environment and sustainability: Understand the impact of software solutions in environmental and societal context and strive for sustainable development.
P05	Modern tool usage: Use contemporary techniques, skills and tools necessary for integrated solutions.
P06	Ethics: Function effectively with social, cultural and ethical responsibility as an individual or as a team member with positive attitude.
P07	Cooperation / Team Work: Function effectively as member or leader on multidisciplinary teams to accomplish a common objective.
P08	Communication Skills: An ability to communicate effectively with diverse types of audience and also able to prepare and present technical documents to different groups.
P09	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.
P010	Enhance the research culture and uphold the scientific integrity and objectivity



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SUBJECT: Computing Fundamentals and C Programming
SUBJECT CODE: 13A
SEMESTER: I

Expected Course Outcomes:		
On 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 Lifetime 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		

SUBJECT: Digital Fundamentals and Computer Architecture
SUB CODE: 13B
SEMESTER: I

Expected Course 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 concepts related to architecture organization and addressing modes	K4
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create		

SUBJECT: Programming Lab – C
SUB CODE: 13P
SEMESTER: I

Expected Course 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		




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SUBJECT: C++ PROGRAMMING

SUB CODE: 23A

SEMESTER: II

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	Define the different programming paradigm such as procedure oriented and object oriented programming methodology and conceptualize elements of OO methodology	K1
2	Illustrate and 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 using overloading features.	K3
4	Discover the usage of pointers with classes	K4
5	Explain the usage of Files, templates and understand the importance of exceptionHandling	K5
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create		

SUBJECT: PROGRAMMING LAB C++

SUB CODE: 23P

SEMESTER: II

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	Define the different programming paradigm such as procedure oriented and object oriented programming methodology and conceptualize elements of OO methodology	K1
2	Illustrate and 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 using overloading features.	K3
4	Discover the usage of pointers with classes	K4
5	Explain the usage of Files, templates and understand the importance of exceptionHandling	K5
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create		



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SUBJECT: INTERNET BASICS
SUB CODE: 23Q
SEMESTER: II

Expected Course Outcomes:		
On 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
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create		

SUBJECT: DATA STRUCTURES
SUB CODE: 33A
SEMESTER: III

Expected Course Outcomes:		
On 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		



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SUBJECT: JAVA PROGRAMMING

SUB CODE: 33B

SEMESTER: III

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	The competence and the development of small to medium sized application programs that demonstrate professionally acceptable coding	K1-K2
2	Demonstrate the concept of object oriented programming through Java	K2-K4
3	Apply the concept of Inheritance, Modularity, Concurrency, Exceptions handling and data persistence to develop java program	K3
4	Develop java programs for applets and graphics programming	K3
5	Understand the fundamental concepts of AWT controls, layouts and events	K1-K2
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create		

SUBJECT: PROGRAMMING LAB JAVA

SUB CODE: 33P

SEMESTER: III

Expected Course Outcomes:		
On the 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		



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SUBJECT: WEB PROGRAMMING

SUB CODE: 3ZA

SEMESTER: III

Expected Course Outcomes:		
On 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
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 sheets and XSL	K1-K4
K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create		

SUBJECT: System Software and Operating Systems

SUB CODE: 43A

SEMESTER: IV

Expected Course 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, deadlock , 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		


SUBJECT: Linux and Shell Programming

SUB CODE: 43B

SEMESTER: IV

Expected Course 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 it from 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.	K3
5	Build Regular expression to perform pattern matching using utilities and implement shell scripts for real time applications.	K3-K6
K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create		





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SUBJECT: Programming Lab –LINUX and SHELL PROGRAMMING
SUB CODE: 43P
SEMESTER: IV

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	Develop Linux utilities to perform File processing, Directory handling and UserManagement	K1, K2
2	Understand and develop shell scripts using pipes, redirection, filters, Pipes and display system configuration	K2-K3
3	Develop simple shell scripts applicable to file access permission networkAdministration	K3
4	Apply and change the ownership and file permissions using advance Unixcommands.	K4-K5
5	Create shell scripts for real time applications.	K6
K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create		

SUBJECT: Lab – Web Programming
SUB CODE: 4ZP
SEMESTER: IV

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	Understand the problems and create applications in basics of web programming	K2-K4, K6
2	Understand and develop Web pages with formatting styles.	K2-K3
3	Apply the features in HTML to present the details given	K3
4	Analyze the problem, apply the concept for developing applications	K4-K5
5	Create web sites of real time applications	K6
K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create		

SUBJECT: RDBMS & Oracle
SUB CODE: 53A
SEMESTER: V

Expected 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	K1-K2
2	Understand and construct database using Structured Query Language(SQL) in Oracle9i environment.	K1-K3
3	Learn basics of PL/SQL and develop programs using Cursors,Exceptions, Procedures and Functions.	K1-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 using Data Manipulation Language (DML)	K2-K4
K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create		



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SUBJECT: Visual Basic

SUB CODE: 53B

SEMESTER: V

Expected Course 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 as command, menus and toolbars.	K1
2	Implement SDI and MDI applications using forms, dialogs and other types of GUI components.	K2
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 practical skill of managing ODBC and Data Access Objects	K2-K4
K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create		

SUBJECT: Programming Lab –VB & Oracle

SUB CODE: 53P

SEMESTER: V

Expected Course Outcomes:

On the successful completion of the course, student will be able to:

1	Understand the concepts of Visual Basic.	K1
2	Learn the advantages of Controls in VB	K2
3	Design and develop the event- driven applications using Visual Basic framework.	K3
4	Apply the knowledge of database 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		

SUBJECT: PHP & Scripting Languages

SUB CODE: 5EB

SEMESTER: V

Expected Course Outcomes:

On the successful completion of the course, student will be able to:

1	Understand the basics of .VB script and Java script	K1
2	Understand the I/O handling, data validation, Activex control and validation	K2
3	Understand and remember the java script objects, form validations, cookies and Plugins	K2
4	Understand the sever side scripting language basics	K3
5	Knowledge on PHP objects, cookies, connecting remote files, and database connections	K2-K4
K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create		




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SUBJECT: PYTHON Programming

SUB CODE: 5EC

SEMESTER: V

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	Remembering the concept of operators, data types, looping statements in Python programming.	K1
2	Understanding the concepts of Input / Output operations in file..	K2
3	Applying the concept of functions and 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		

SUBJECT: CASE Tools Concepts and Applications

SUB CODE: 5ZC

SEMESTER: V

Expected Course 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 with in-depth analysis.	K3
5	To inculcate knowledge on Software engineering concepts in turn gives a roadmap to design a new software project.	K1-K4
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create		

SUBJECT: Graphics & Multimedia

SUB CODE: 63A

SEMESTER: VI

Expected Course 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 Line/surface elimination techniques	K3
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
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create		



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SUBJECT: Project Work Lab
SUB CODE: 67V
SEMESTER: VI

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	Formulate a real world problem and develop its requirements develop a designsolution for a set of requirements.	K3
2	Test and validate the conformance of the developed prototype against the originalrequirements of the problem.	K5
3	Work as a responsible member and possibly a leader of a team in developingsoftware solutions.	K3
4	Express technical ideas, strategies and methodologies in written form. Self-learnnew tools, algorithms and techniques that contribute to the software solution of the project.	K1-K4
5	Generate alternative solutions, compare them and select the optimum one.	K6
K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create		

SUBJECT: Programming Lab – Graphics & Multimedia
SUB CODE: 63P
SEMESTER: VI

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	Understand the basic concepts of computer graphics.	K1
2	Design scan 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 ofobjects in 2D.	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		



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SUBJECT: Computer Networks
SUB CODE: 6EA
SEMESTER: VI

Expected Course Outcomes:

On the successful completion of the course, student will be able to:

1	Remember the organization of computer networks, factors influencing computer network development and the reasons for having variety of different types of networks.	K1
2	Understand Internet structure and can see how standard problems are solved and the use of cryptography and network security.	K2
3	Apply knowledge of different techniques of error detection and correction to detect and solve error bit during data transmission.	K3
4	Analyze the requirements for a given organizational structure and select the most appropriate networking architecture and technologies	K4
5	Knowledge about different computer networks, reference models and the functions of each layer in the models	K2-K4

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

SUBJECT : Elective III Internet of Things (IoT)
SUB CODE: 6ED
SEMESTER: VI

Expected Course 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 Web connectivity.	K2
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



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SUBJECT : Lab - CASE TOOLS LAB
SUB CODE: 6ZP
SEMESTER: VI

Expected Course Outcomes:

On the successful completion of the course, student will be able to:

1	Prepare the CASE tools for the given specification.	K1, K2
2	Understand and develop the UML diagram for real time applications.	K2-K3
3	Design the real time test cases	K3
4	Analyze the development of CASE tools	K4-K5
5	Design the CASE tools and generate VB code	K6

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



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SATHYAMANGALAM - 638 401, ERODE DISTRICT, TAMIL NADU.

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Phone : 04295-297141

2.6.1 Programme Outcomes (Pos) and Course Outcomes (Cos) for all Programmes offered by the institution are stated and displayed on website and attainment of Pos and Cos are evaluated.

B.Sc., MATHEMATICS

PROGRAMME OUTCOMES (POs)

On successful completion of the B. Sc. Mathematics program	
PO1	Students are empowered with analytical and logical skills-to formulate results and construct mathematical argument.
PO2	Ability to organize, analyze and interpret data accurately in both academic and non-academic context.
PO3	Demonstrate effective communication of mathematical ideas and creative thinking skills to facilitate solving real world problems as a team and independently.
PO4	Appreciate and identify the connections between Mathematics and other disciplines.
PO5	Competency to obtain employment in education, public and private sectors..
PO6	Identify the area of interest for extended learning from the understanding gained from the domain and allied areas of Mathematics.
PO7	Develop mathematical aptitude and make critical observations.
PO8	Garner innovative ideas to face global challenges.
PO9	Instill a sense of responsibility in tackling professional and social issues ethically.
PO10	Trigger their passion for research in unexplored areas of Mathematics.



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COURSE OUTCOMES (Cos)

Subject: Classical Algebra Sub Code:13A Semester:I

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	Know the concept of Binomial ,Exponential , Logarithmic series and their application to summation of series.	K1
2	Acquire a clear knowledge regarding methods to find an approximate roots of the equations .	K2
3	Apply the appropriate tests to find the convergence or divergence of an infinite series.	K3
4	Apply Descartes's rule of signs to find the number of positive and negative roots if any in a polynomial equation .	K3
5	Analyze the relation between roots and coefficients of the polynomial equations.	K5

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

Subject: CALCULUS Sub Code:13B Semester:I

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	Identify areas in Mathematics and other fields where Calculus is useful.	K1
2	Understand the concepts of Evolutes and Envelopes, methods to find curvature and evolutes.	K2
3	Apply the concept of change of variables in double and triple integrals.	K3
4	Apply double , triple integral to find the area and volume respectively.	K3
5	Apply the Beta and gamma function to solve the multiple integrals.	K5

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



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Subject: ANALYTICAL GEOMETRY Sub Code:23A Semester:II

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	Gain knowledge about the regular geometrical figures and their properties.	K1
2	Describe the geometric concepts.	K2
3	Find equation to tangent, normal at a point on a conic	K3
4	Analyze condition of tangency and find the tangent plane to the central conicoid	K4
5	Analyze conics to explain natural phenomenon	K4
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create		

Subject: TRIGONOMETRY, VECTOR CALCULUS AND FOURIER SERIES

Sub Code:23B Semester:II

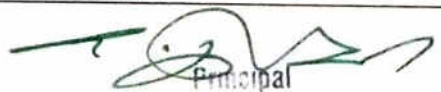
Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	Gain knowledge about the regular geometrical figures and their properties.	K1
2	Describe the geometric concepts.	K2
3	Find equation to tangent, normal at a point on a conic	K3
4	Analyze condition of tangency and find the tangent plane to the central conicoid	K4
5	Analyze conics to explain natural phenomenon	K4
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create		

Subject: DIFFERENTIAL EQUATIONS AND LAPLACE TRANSFORMS

Sub Code:33A Semester:III

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	Acquire knowledge to solve Differential and Partial Differential Equations.	K1
2	Solve higher order linear differential equations.	K2
3	Expose differential equation as a powerful tool in solving problems in Physical and Social sciences.	K3
4	Demonstrate competency to solve linear PDE by Lagrange's method	K3
5	Analyze the concepts of Laplace transforms and inverse Laplace transforms to solve ODE with constant coefficients.	K4
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create		




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Subject: STATICS Sub Code:33B Semester:III

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	Remember the various laws.	K1
2	Understand the concepts of forces and moments.	K2
3	Understand the concepts of equilibrium .	K2
4	Apply the concepts of forces and moments.	K3
5	Analyze the basics of coplanar forces , equilibrium of forces acting on a rigid body and solve the problems.	K4
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create		


Subject: Operations Research-I Sub Code:3ZA Semester:III

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	Understand the basic concepts and application of operations research in various fields.	K1
2	Know principles of construction of mathematical models of conflicting situations.	K2
3	Analyze the relationship between a linear program and its dual.	K3
4	Apply techniques constructively to make effective decisions in business and solve problems in industry.	K3
5	Build and solve transportation problems.	K4
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create		

Subject: DYNAMICS Sub Code:43A Semester:IV

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	Remember the basic kinematics and dynamic concepts.	K1
2	Describe the differential equation of Central Orbits .	K2
3	Apply the concepts of projectiles to solve problems relating to the motion of a projectile .	K3
4	To understand & apply the concepts of composition of simple harmonic motion in two directions .	K3
5	Understand impulsive forces and analyze loss of K.E due to direct and oblique impact.	K4
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6– Create		




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Subject: PROGRAMMING IN C Sub Code:43B Semester:IV

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	Remember the importance of C language and datatypes.	K1
2	Understand the basic structure, operators and statements of C language.	K2
3	Understand decision control statements, loop control statements .	K2
4	Apply the concepts of data types, operators, expressions, control statements , arrays, character arrays and strings to write the C code for a given algorithm.	K3
5	Read, understand and trace the execution of programs written in C language.	K4
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6- Create		

Subject: Operations Research-II Sub Code:42B Semester:IV

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	Identify the importance of stocks, the reasons for holding stock in an organization ,determine the optimal order quantity for models .	K1
2	Explain the various costs related to inventory system.	K2
3	Apply game theory concepts to articulate real-world situations by identifying, analyzing and practicing strategic decisions .	K3
4	Apply and extend queueing models to analyze real world systems.	K4
5	Build and solve assignment model.	K4
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6- Create		



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Subject: REAL ANALYSIS - I Sub Code:53A Semester:V

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	Remember the basic topological properties of subsets of the real numbers .	K1
2	Understand the fundamental properties of the real numbers and analyze the real number system.	K2
3	Learn the concept of limits, sequence, continuity, convergent sequence in metric spaces appreciating the abstract ideas and their applicability .	K2
4	Have the proficiency in the formulation and construction of proofs of basic results in real analysis.	K3
5	Demonstrate skills in communicating Mathematics and learn basic techniques and examples in analysis to be well prepared for extended learning .	K4
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6- Create		

Subject: COMPLEX ANALYSIS - I Sub Code:53B Semester:V

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	Learn techniques of complex analysis effectively to establish mathematical results.	K1
2	Recognize the simple and multiple connected domains.	K2
3	Investigate a function for its analyticity and find its series development.	K3
4	Examine the relationship between conformal mapping and analytic functions	K4
5	Compute contour integrals directly and by the fundamental theorem.	K4
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6- Create		




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Subject: MODERN ALGEBRA - I Sub Code:53C Semester:V

Expected Course Outcomes:

On the successful completion of the course, student will be able to:

1	Recall the properties and extend group structure to finite permutation groups .	K1
2	Explain the concepts of homomorphism, isomorphism and automorphism.	K2
3	Demonstrate abstract thinking capacity and ability to prove theorems.	K3
4	Compare features of different algebraic structures .	K4
5	Examine the properties of algebraic structures and their role in applied contexts.	K4

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

Subject: DISCRETE MATHEMATICS Sub Code:53D Semester:V

Expected Course Outcomes:

On the successful completion of the course, student will be able to:

1	Assimilate various graph theoretic concepts and familiarize with their applications.	K1
2	Know and understand about partially ordered sets, Boolean algebra, lattices and their types.	K2
3	Apply Karnaugh map for simplifying the Boolean expression.	K3
4	Demonstrate the skill to construct simple mathematical proofs and to validate .	K4
5	To achieve greater accuracy , clarity of thought and language.	K4

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

Subject: NUMERICAL METHODS – I Sub Code:5EB Semester:V

Expected Course Outcomes:

On the successful completion of the course, student will be able to:

1	Remember the concepts of errors and its effect on computation.	K1
2	Obtain numerical solutions of algebraic and transcendental equations.	K2
3	Apply the finite difference and interpolation concepts .	K3
4	Develop skills in designing mathematical models for constructing polynomials to the given data and drawing inferences.	K4
5	Analyze the efficiency of iteration methods.	K4

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



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Subject: OPERATIONS RESEARCH –III Sub Code:52C Semester:V

Expected Course Outcomes:

On the successful completion of the course, student will be able to:

1	Know the concept of simulation and simulate a queueing system	K1
2	Understand the overall approach of dynamic programming.	K2
3	Solve nonlinear programming problems using Lagrange multiplier and using Kuhn-Tucker conditions.	K2
4	Apply concepts in optimal scheduling	K3
5	To formulate a model for solving the intractable problems.	K4

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

Subject: REAL ANALYSIS - II Sub Code:63A Semester:VI

Expected Course Outcomes:

On the successful completion of the course, student will be able to:

1	Demonstrate the understanding of continuity, uniform continuity, compactness, connectedness.	K1
2	Understand partitions and their refinement.	K2
3	Determine the Riemann integrability and the Riemann-Stieltjes integrability of a bounded function.	K2
4	Examine the derivatives of function.	K3
5	Acquire skills in writing and analyze the proofs that arise in the context of real analysis.	K4

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



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subject: COMPLEX ANALYSIS - II Sub Code:63B Semester:VI

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	To recognize and apply the Liouville's theorem, the mean-value property of a function and the maximum modulus principle.	K1
2	Demonstrate understanding and appreciation of deeper aspects of complex analysis.	K2
3	Apply residue theorem to compute integrals.	K3
4	Ability to think critically by proving mathematical conjectures and establishing theorems from complex analysis.	K4
5	Classify the nature of singularity, poles and residues .	K2
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create		

Subject: MODERN ALGEBRA - II Sub Code:63C Semester:VI

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	Communicate and understand mathematical ideas and results with the correct use of mathematical definitions, terminology and symbols.	K1
2	Explain the concepts of base and dimension of Vector space.	K2
3	To apply the Gram-Schmidt process to construct an orthonormal set of vectors in an inner product space.	K3
4	Demonstrate competence with the basic ideas of Matrix theory ,Vector spaces, Dual spaces, Linear transformation.	K3
5	Have an insight to analyze a real life problem and solve it.	K4
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create		

Subject: Numerical Methods II Sub Code:6EB Semester:VI

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	Familiarize with numerical integration and differentiation, numerical solution of ordinary differential equations.	K1
2	Distinguish methods of Taylor series, Euler's, Modified Euler's and Runge Kutta methods to find solutions of differential equations.	K2
3	Apply the techniques for enormous application in the field of Science and some fields of Engineering.	K3
4	Compute the integrals and derivatives by using the appropriate technique.	K4
5	Find the numerical solution of second order O.D.E by finite difference method.	K4
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6- Create		



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Subject: OPERATIONS RESEARCH –IV Sub Code: 6ZD Semester:VI

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	Know the principles and applications of information theory.	K1
2	To understand sequencing, replacement problems.	K2
3	Demonstrate skills to achieve their objective using sequencing models.	K3
4	Apply decision making under different business environments .	K4
5	Determine a solution to a rectangular game using simplex method.	K3
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create		

Subject: GRAPH THEORY Sub Code: 6ED Semester:VI

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	Identify the properties of different types of graph and their application.	K1
2	Demonstrate knowledge of basic concepts in graph theory .	K2
3	Understand cut graphs ,cycle spaces	K2
4	Apply principles and concepts of graph theory in practical situations.	K3
5	Analyze the concepts of Planar graphs.	K4
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6- Create		



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B.Sc PHYSICS

PROGRAMME OUTCOMES (POs)

On successful completion of the B.Sc Physics program ,the students will be able to,	
PO1	Understand the basic concepts and significance of various physical phenomena.
PO2	Transform ideas into action
PO3	Acquire a wide range of problem-solving skills, both analytical and computational and to apply them.
PO4	Develop an independent and self-disciplined specialized learning in tune with the changing socio-technological scenario.
PO5	Get motivated to pursue higher education and research activities in Physics to find professional-level employment
PO6	identify, analyze and formulate novel ideas to yield, substantial results in the fields of research utilizing the principles of Physics.
PO7	Develop creative thinking and innovative tools.
PO8	Communicate effectively and acquire employability/self-employment.
PO9	Acquire a broad interdisciplinary knowledge.
PO10	Update themselves in the current developments and discoveries related to Physics.



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COURSE OUTCOMES (Cos)

MECHANICS, PROPERTIES OF MATTER AND SOUND (13A) – FIRST SEMESTER

Expected Course Outcomes:		
On the successful completion of the course, students will be able to:		
1	understand and define the laws involved in mechanics.	K1
2	gain a deeper understanding of mechanics and its fundamental concepts.	K2
3	understand the concept of properties of matter and recognize their applications in various real problems.	K3
4	analyze the universal behavior of wave motion.	K4
5	learning the basic concepts of elasticity, surface tension, Gravitation, viscosity, and sound and evaluating their values for various materials.	K5
6	explore the production and application of ultrasonic wave	K6
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create		

HEAT AND THERMODYNAMICS (23A) –SECOND SEMESTER

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	realize various principles and laws of heat	K2
2	derive expressions and find experimental verifications for the laws studied	K3
3	analyze the applications of heat and thermodynamics in various areas and solve the real-life problems.	K5
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create		

CORE PRACTICAL I (23P) – SECOND SEMESTER

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	analyze the concepts of Viscosity, Surface Tension and Young's Modulus of different substances	K4
2	explore the knowledge of Spectrometer and other Optical instruments	K5
3	realize principles and applications of Potentiometer, Sonometer, Magnetometer and PN junction diode.	K4
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create		

OPTICS (33A) – THIRD SEMESTER

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	remember the behavior of light on passing through lens, prism, thin-film and grating	K1
2	understand the phenomena of light like Interference, diffraction, polarization and population inversion	K2



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3	analyze and apply the concepts of dispersive power, refractive index, resolving power, double refraction, specific rotation and optical pumping for different materials	K4
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create		

INSTRUMENTATION - I (3ZA) - THIRD SEMESTER

Expected Course Outcomes:		
On the successful completion of the course, students will be able to:		
1	use the concepts of measurement.	K1
2	understand a typical instrument design.	K2
3	apply statistical error analysis for measurement	K3
4	choose a transducer/sensor for typical measurement of temperature, pressure and flow.	K4
5	evaluate the performance and reliability of measurement devices available in the market.	K5
6	design a basic measurement device.	K6
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create		

ALLIED PHYSICS-I (3AF) - THIRD SEMESTER

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	understand the laws involved in gravitation and elasticity.	K2
2	update the knowledge on heat and thermodynamics, sound and spectroscopy.	K3
3	realize the concept of properties of matter and recognize their applications in various real problems.	K4
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create		


ATOMIC PHYSICS AND SPECTROSCOPY (43A) -FOURTH SEMESTER

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	analyze various types of spectrographs to study about positive rays	K4
2	explain magneto optical properties of materials	K5
3	find applications of photoelectrical cells and X Rays	K3
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create		

ALLIED PHYSICS-II(4AF) -FOURTH SEMESTER

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	Acquire knowledge on basic concepts of photoelectric effect and fission, fusion and to a get clear idea of wave mechanics.	K1




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2	Understand the features of Nuclear forces, photoelectric cells, semiconductor diodes and their fundamental concepts.	K2
3	Recognize the concept of Laser properties and digital electronics and explore their applications in real life.	K4
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create		

CORE PRACTICAL II (43P) –FOURTH SEMESTER

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	apply the concepts of Specific heat capacity and Young's Modulus of different substances	K3
2	acquire the knowledge of Physical optics using Spectrometer	K4
3	evaluate principles and applications of Potentiometer, Magnetometer and BG.	K5
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create		

ALLIED PHYSICS PRACTICAL (4PF) –FOURTH SEMESTER

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	attain skill to understand the usage of basic laws and theories to determine various properties of the materials given.	K3
2	analyze the characteristics of various diodes and construct power supply.	K4
3	acquire the knowledge of the potentiometer and apply it for various experiments.	K5
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create		

MATHEMATICAL PHYSICS (53A) –FIFTH SEMESTER

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	derive Lagrange's and Hamilton's equations	K2
2	apply Lagrange's and Hamilton's equations to physical problems	K3
3	analyze gamma and beta functions and their applications	K3
4	solve problems on Matrices and apply them to relevant problems	K4
5	apply Stoke's and Gauss theorems to suitable physical problems	K5
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create		

ELECTRONICS (53B) –FIFTH SEMESTER

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	differentiate between different types of amplifiers and their applications	K2
2	design different types of oscillators	K3



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3	apply switching ideas to various devices	K3
4	analyzing the power electronic devices and their uses	K4
5	design operational amplifier circuits and to analyze their properties	K5
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create;		

SOLID STATE PHYSICS (53C) –FIFTH SEMESTER

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	choose the right material for a given application based on Fermi level concept	K3
2	analyze the magnetic materials for utilization in varied fields.	K4
3	design new components or devices using dielectrics and superconductors.	K6
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create		

ELECTRICITY AND MAGNETISM (53D) –FIFTH SEMESTER

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	define and derive the laws of electricity and magnetism	K2
2	update the knowledge of properties and magnetism	K3
3	expertise the skills to manufacture devices	K5
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create		


INSTRUMENTATION III (5ZC) –FIFTH SEMESTER

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	understand the principles of biomedical instruments.	K1
2	enable the students to understand the working of basic electromagnetic and electronic instruments.	K2
3	appropriately chose electronic components.	K3
4	carry out minimal testing and maintenance of lab equipment.	K4
5	troubleshoot simple electronic circuits using multimeters and oscilloscopes.	K5
6	interpret results of Biomedical measurement.	K6
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create		

PRINCIPLES OF PROGRAMMING CONCEPTS AND C PROGRAMMING (5EA)- FIFTH SEMESTER

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	design features of programming languages, and justify their own design decisions	K2




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2	critically evaluate what paradigm and language are best suited for a new problem	K5
3	use C programming to solve Physics problems.	K6
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create		

QUANTUM MECHANICS AND RELATIVITY (63A) –SIXTH SEMESTER

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	acquire the knowledge of wave nature of matter and its experimental verification	K2
2	understand Heisenberg uncertainty principle and apply it to verify problems in atomic and nuclear Physics	K3
3	Identify the reason behind various physical problems using relativity and solve them	K5
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create		

NUCLEAR PHYSICS (63B) –SIXTH SEMESTER

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	understand the General properties of Nucleus	K2
2	analyze the construction and working of radiation detectors	K4
3	device instruments utilizing the behavior of nuclear particles	K6
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create		

CORE PRACTICAL III ELECTRONICS (63P) –SIXTH SEMESTER

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	design different types of Power supplies, Amplifiers and Oscillators	K4
2	to analyze the characteristics of various Electronic devices like BJT, UJT, LDR, and Solar cell	K4
3	acquire the knowledge of the characteristics of an operational amplifier	K5
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create		

CORE PRACTICAL IV DIGITAL AND MICROPROCESSOR (63Q) –SIXTH SEMESTER

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	analyze the different types of digital circuits and their applications	K4
2	realize the applications of registers in computers	K5
3	update the knowledge of Microprocessor programming	K6
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create		



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PRACTICAL V C AND C++ PROGRAMMING (63R) –SIXTH SEMESTER

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	Write and execute programs in C and C++	K3
2	Analyze the programming concepts for Physics problems	K4
3	Evaluate the solutions for different Mathematical problems	K5
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create		

SKILL BASED SUBJECT INSTRUMENTATION PRACTICALS (6ZP)- SIXTH SEMESTER

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	service and rectify the defects in laboratory instruments	K5
2	service and rectify the defects in simple house hold devices.	K5
3	device new instruments applying the knowledge of instrumentation.	K6
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create		

DIGITAL AND MICROPROCESSOR (6EA) –SIXTH SEMESTER

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	draw and construct the logic circuit for any Boolean equation.	K2
2	apply the Karnaugh Map to simplify Boolean equation and draw a simplified circuit	K3
3	understand the function of data processing and arithmetic circuits	K4
4	understand the Mnemonics and Opcodes in the Microprocessor	K4
5	develop programming skills using the basic concepts.	K5
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create		

OBJECT ORIENTED PROGRAMMING WITH C++ (6EB) –SIXTH SEMESTER

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	understand the concept of data abstraction and encapsulation	K2
2	learn how to design C++ classes for code reuse.	K6
3	learn how to use exception handling in C++ programs.	K3
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create		




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2.6.1 Programme Outcomes (Pos) and Course Outcomes (Cos) for all Programmes offered by the institution are stated and displayed on website and attainment of Pos and Cos are evaluated.

B.Sc CHEMISTRY

PROGRAMME OUTCOMES (POs)


Program Educational Objectives (PEOs)	
The B.Sc.Chemistry program describe accomplishments that graduates are expected to attain within five to seven years after graduation	
PEO1	To produce efficient chemistry graduates with strong fundamentals in various fields of chemistry
PEO2	To make students capable to assess and relate issues to environmental and practice it with integrity and ethics
PEO3	To provide an in-depth knowledge in chemistry and enable them with tools needed for industrial applications
PEO4	To integrate the inter-disciplinary knowledge of physics ,mathematics or biological sciences to wide variety of fields
PEO5	To develop the ability to communicate the scientific information in written and oral formats
PEO6	To inculcate leadership qualities and mold them as good team players tofunction effectively in multidisciplinary teams

COURSE OUTCOMES (Cos)

GENERAL CHEMISTRY-I (13A) – FIRST SEMESTER

Expected Course Outcomes:		
On the successful completion of the course,student will be able to:		
1	Understand the properties of period and groups in periodic table	K1, K2
2	Able to name the hydrocarbons and Identify the products of elimination andaddition reactions.	K2-K4
3	Discuss the various polar effects in alkanes and alkenes.Describe the preparation of cycloalkanes	K1-K3
4	Explain the theory of black body radiation	K1, K2
5	Understand the firstand second law of thermodynamics	K1, K2
K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create		




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GENERAL CHEMISTRY-II (23A) – SECOND SEMESTER

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	Understand the principles of volumetric analysis and estimate an unknown ion	K1, K2
2	Outline the structure and properties of boron and silicate compounds	K1, K2
3	Explain the aromatic electrophilic substitution and aliphatic nucleophilic substitution reactions with mechanism	K2-K4
4	Understand the relation between thermodynamic properties	K1-K3
5	Understand the packing and structure of crystals	K1, K2
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create		

INORGANIC QUALITATIVE ANALYSIS (23P) – SECOND SEMESTER

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	Do preliminary tests and identify interfering and non-interfering radicals and confirm their presence	K1-K5
2	Remove interfering anions, carry out a systematic analysis and identify the cations in a given sample	K1-K5
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create		


INORGANIC CHEMISTRY - I (33A) – THIRD SEMESTER

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	Explain various chemical and electrochemical principles involved in the extraction of metals.	K1, K3
2	Make use of the occurrence and extraction of important metals and their compounds	K2, K3
3	Outline the importance of solvents and solubility in chemical reactions	K2
4	Define and classify the structure and properties of organometallic compounds	K1-K3
5	Describe the structure & functioning of biomolecules and role of metals in biology	K1, K2
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create		

PHYSICAL CHEMISTRY - I (33B) – THIRD SEMESTER

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	Understand the concepts of thermodynamics, Second law, and Entropy change.	K1, K2
2	Understand the Spontaneity and its conditions, Gibb's free energy and knowledge of third law.	K2, K3




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3	Understand the concepts of Phase rule and its applications to various systems.	K2 -K4
4	Know the different laws of solutions and evaluate the Colligative properties	K3, K5
5	Understand the C-Program and evaluate the various parameters.	K2, K5
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create		

CHEMISTRY OF NATURAL AND SYNTHETIC FIBERS (3ZA) - THIRD SEMESTER

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	To understand the classification, properties and uses of natural fibers.	K1, K2
2	Able to know about the chemical structure of cellulose fiber. Wet spinning process.	K1 - K3
3	Discuss about synthetic and acrylic fiber. Detail about fiber forming polymer and schio process.	K1, K2 K4, K6
4	Explain the naming reaction of nylon fiber. Explanation of structure and uses of Kevlar fiber.	K1, K2
5	Discuss about polyester fiber. Synthesis of DMT, ethylene glycol and PET	K1, K3, K4
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create		

ALLIED CHEMISTRY-I (3AH) - THIRD SEMESTER

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	Understand the properties metals and their conductivity, the principle behind the synthesis and applications of boron compounds.	K1-K4
2	Understand about silicones fuels gases and their industrial applications. The theory behind colours and dyes, their preparation and dyeing.	K2-K4, K6
3	Understand the bonding and structure of various hydrocarbons and electronic effects. Appericiate the optical properties of compounds and how it determines the compounds nature itself	K1-K4
4	Explain the chemistry behind toiletries and cleaning agents.	K2-K5
5	Understand the kinetics benind chemical reactions and the nature of solutions	K1-K3
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create		

ORGANIC CHEMISTRY - I (43A) -FOURTH SEMESTER

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	Know the knowledge of Preparation and Properties of Carbonyl Compounds.	K1



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2	Understand the mechanism of certain name reactions.	K2, K3
3	Understand the concepts of active Methylene compounds and Geometrical isomerism of certain organic compounds.	K2, K4
4	Know the classification of Phenols, Preparation of phenolic compounds with chemical properties.	K2
5	Know the concepts of amines, types, separation and their basic nature.	K3, K4
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create		

ALLIED CHEMISTRY-II (4AH) –FOURTH SEMESTER

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	Appreciate the role of metals in biological system and their therapeutic effects	K1-K3
2	Understand about the importance of paints and the need for explosives as well as the bad face of war.	K2-K5
3	Understand the importance of polymers and rubbers in our day to day life	K1-K4
4	Appreciate the need for fertilizers and insecticides in the Agricultural sector	K2-K5
5	Understand the importance of electrochemistry and energy storage devices	K2-K4
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create		


ALLIED PRACTICAL VOLUMETRIC AND ORGANIC ANALYSIS (43P) –FOURTH SEMESTER

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	Estimate the amount of ion present in the given solution through volumetric analysis both by direct and indirect method	K1-K6
2	Find the groups/elements and characters present in the given organic substance through qualitative analysis and prepare a suitable derivative.	K1-K6
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create		

TECHNOLOGY OF DYEING OF NATURAL FIBERS (4ZB) - FOURTH SEMESTER

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	State the basic aspects of colour and dyeing auxiliaries.	K2, K4,
2	Outline various methods of dyeing.	K2, K3
3	Demonstrate the process of azoic dyes and their applications.	K2, K3
4	Acquire knowledge in vat dyes and the procedures followed for dyeing.	K2, K3
5	Summarize the properties and mechanism of dyeing particularly sulfur and acid dyes.	K3, K4, K5
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create		




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INORGANIC CHEMISTRY - II (53A) –FIFTH SEMESTER

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	Rationalise the conductivity of metals, semiconductors along with its applications.	K1, K2, K3
2	Understand the types of nuclear reactions and its importance in generation of electricity.	K1, K2
3	Acquire enormous knowledge on uses of isotopes and radioactive substances.	K1, K2
4	Understand the terms - ligand, chelate, coordination number and various types of isomerism possible in coordination compounds.	K3, K4
5	Outline various theories of coordination compounds and complete understanding on Crystal Field and Valence Bond Theory.	K2, K3
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create		

SPECTROSCOPY (53B) –FIFTH SEMESTER

Expected Course Outcomes:		
On the successful completion of the course, students will be able to:		
CO1	Gain the knowledge of different electromagnetic radiations, basic concepts, instrumentation and applications of UV-Visible spectra.	K2, K3
CO2	Know different types of vibrational frequencies, comparison between IR and Raman spectroscopy as well as their applications.	K2, K3
CO3	Study the basic principles, instrumentation and applications of NMR spectroscopy pertaining to some simple organic compounds.	K2, K3, K4
CO4	Acquire the knowledge on the basic concepts, instrumentation and applications associated with ESR.	K2, K3, K4
CO5	Understand the different concepts of mass spectrometry along with the determination of molecular formula.	K2 - K5
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create		

ELECTRO CHEMISTRY (53C) –FIFTH SEMESTER

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	Describe the principle of solubility product and relate the pH of a solution containing a mixture of the two components to the acid dissociation constant, K_a	K1-K3
2	Understand the difference between metallic conductance & electrolytic conductance	K1, K2
3	Recognize the different types of electrochemical cells and calculate the cell potential from standard cell potential	K2, K3




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4	Distinguish between cells and use the Nernst equation for calculating EMF of a cell.	K1-K4
5	Understand the working principles of fuel cells, storage cells and battery design.	K2-K4
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create		

ANALYTICAL CHEMISTRY (53D) –FIFTH SEMESTER

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	Understand the principles of various analytical techniques and their applications	K2, K3
2	Evaluate different types of errors and correct them.	K1, K5
3	Perform various tests for set of analytical data	K3, K4
4	Understand the theory of quantitative analysis	K1, K6
5	Determine an analyte quantitatively using gravimetric methods	K3, K5
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create		

WATER & EFFLUENT TREATMENT AND POLLUTION CONTROL (5ZC) –FIFTH SEMESTER

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	To understand urbanization and biodiversity along with environmental pollution.	K1, K2
2	Acquires the knowledge about water pollution and water softening methods.	K1, K2, K3, K4
3	Importance about water analysing methods along with determination of BOD, COD and toxicity.	K2, K3, K4,
4	Detail explanation of primary, secondary and tertiary water treatment methods.	K2, K3 K4, K5
5	Discuss about effect of noise pollution along with brief study on modern methods for pollution analysis.	K1, K2, K4
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create		

POLYMER CHEMISTRY (5EA)- FIFTH SEMESTER

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	Classify Polymers based on their origin, mechanism of formation, citing example. Understand the methods of preparation process and apply the - correct method of preparation for a particular polymer.	K1-K3
2	Analyze the reaction mechanisms of polymerization.	K1, K4
3	Understand the relation between the bond forces and structural properties of polymers.	K2, K4



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4	Understand the principles behind the molecular determination methods and applying them to calculate the different molecular weights of polymers.	K2,K4
5	Explain the basic preparation methods and have a good knowledge on the Industrial Applications of Polymers.	K2,K3
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create		

ORGANIC CHEMISTRY - II (63A) –SIXTH SEMESTER

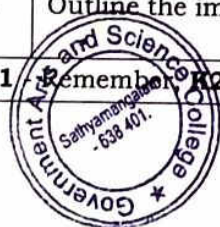
Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	acquire the knowledge of wave nature of matter and its experimental verification	K2
2	understand Heisenberg uncertainty principle and apply it to verify problems in atomic and nuclear Physics	K3
3	Identify the reason behind various physical problems using relativity and solve them	K5
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create		

PHYSICAL CHEMISTRY II (63B) –SIXTH SEMESTER

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	Understand the electrical properties of molecules and its application	K1-K3
2	Understand magnetic properties of molecules and its application for solving problem for structure determination	K1-K3
3	Know about the order and molecularity of reaction and also determination of order of reactions	K2-K4
4	Understand and learn the theoretical and experimental aspects of kinetics of reactions	K1-K4
5	Gain detailed knowledge on photochemical and thermal reactions.	K1-K3
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create		

DYE CHEMISTRY (6EC)–SIXTH SEMESTER

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	Understand the principles of colour and its relation with compound's structure	K1 - K5
2	Analyze and classify dyes based on their chemical structure and applications	K1 - K3
3	Describe the synthesis of di and triphenyl methane dyes and their applications	K2, K3,
4	Understand chemistry of nitrogen containing dyes and their applications	K2, K3
5	Outline the importance of pigments in various fields	K1 - K4
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create		



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ENVIRONMENTAL CHEMISTRY (6EE) –SIXTH SEMESTER

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	Understand the concepts ,environmental segments and composition of the atmosphere	K1,K2
2	Know about the environment cycles and their significance	K1
3	Discuss the water pollution,sewage and Industrial waste water treatment	K1,K2
4	Describe the reactions in air pollution ,particulates and analysis of pollutants	K2,K4
5	Explain the thermal,noise and radioactive pollution and their effects and methods of control	K1-K3
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create		

CORE XIV - CHEMISTRY PRACTICAL III GRAVIMETRIC ANALYSIS AND PHYSICAL CHEMISTRY (63P) –SIXTH SEMESTER

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	Understand the concept of gravimetric analysis.	K1-K6
2	Find a suitable precipitation method and perform effective precipitation to determine the amount of the cation.	K1-K6
3	Calculate the conductance of the solution at various stages of neutralization	K2-K5
4	Determine the rate and dissociate constant for a reaction	K2-K4
5	Perform graphical analysis to arrive experimental results based on the physical chemistry experiments.	K1-K6
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create		


CORE XV PRACTICAL FOR ELECTIVE SUBJECTS (63Q) –SIXTH SEMESTER

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	Use the physical constants in the analysis of a substance.	K1-K5
2	Prepare inorganic complexes	K1-K6
3	Perform organic transformation involving substitution and oxidation reactions	K1-K5
4	Use effectively the Complexometric method to estimate hardness of water	K2-K6
5	Colorimetric methods in the estimation of various salts and ions.	K1-K5
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create		

TEXTILE CHEMISTRY PRACTICAL (6ZP) –SIXTH SEMESTER

Expected Course Outcomes:		
On the successful completion of the course, student will be able to:		
1	Analyze the quality of water for industrial use as well as various substances of industrial use	K1-K6
2	Learn the various methods of dye preparation and dyeing.	K1-K6
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create		




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B.Sc Visual Communication

PROGRAMME OUTCOMES (POs)

On successful completion of the B.Sc Visual Communication program

PO1	To develop the ability to use critical, analytical and in-depth thinking in the field of Visual Communication.
PO2	Be exploratory and experimental in the development of their creative and Designing skills.
PO3	To communicate effectively by oral, written, graphical and technical means and have competency in visual languages.
PO4	Able to identify Public Relation tools and explain major Communication theories and to apply their day to day life.
PO5	To enhance knowledge in various domains such as film, design photography, Visual arts and animation that recognize the need of mainstream media and develop entrepreneur skills to become professionally competent and socially responsible in performing media tasks.

COURSE OUTCOMES (Cos)

Semester: I 13A CORE INTRODUCTION TO COMMUNICATION

Expected Course Outcomes:

On the successful completion of the course, student will be able to:

1	To be aware of and comprehend the many types of communication.	K1,K2
2	To comprehend the nature and purposes of the many forms of communication	K2
3	To incorporate the principles of communication into daily life.	K3
4	To examine how the cultural shifts in the world's media are influenced.	K4
5	To improve their communication abilities and to understand the topic matter	K3,K5

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

Semester: I 13P CORE PRACTICAL : WRITING FORMEDIA (PRACTICAL-I)

EXPECTED COURSE OUTCOME :

1.	An improvement in comprehension of language development and changes.	K2,K3
2.	Students gain knowledge and awareness of the structure and style of the media language in practice	K2
3.	Students learn about the terminology used in special feature.	K2
4.	The improvement of efficacy through media-friendly paraphrasing.	K3,K6
5.	Improvement of writing skills for print, electronic, digital and new media.	K3,K6

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

Semester: I 13Q CORE PRACTICAL: VISUAL ART(PRACTICAL-II)

EXPECTED COURSE OUTCOME :

1.	Understand the basics of drawing	K2
2.	Apply the different skills based on the Visual elements	K3
3.	Comprehend the various visual medium and their application	K2
4.	Understand visual Aesthetics and politics of Visual Media	K2
5.	Create a content using visual language and literacy	K6

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




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Semester: I	IAA	ALLIED I : MEDIA PSYCHOLOGY
EXPECTED COURSE OUTCOME :		
1. Understand the problems related to the influence of various types of media texts and be aware the pros & cons		K2,K4
2. Understand the basic concepts concerning the field of mediapsychology		K2
3. Comprehend the importance of media literacy in today's world and to, know how to Shape it		K2,K3
4. Understand the basic media psychology theories		K2,K6
5. Analyze the psychological effects & influence of media.		K2,K4
K1-Remember; K2- Understand; K3-Apply; K4-Analyze;K5-Evaluate;K6-Create		

Semester: II	23A	CORE II: COMMUNICATION THEORIES
EXPECTED COURSE OUTCOME :		
1. Remember the various forms of communication		K1
2. Understand the functions & nature of the various types of communication models & theories		K2
3. Analyze the communication theories with reference to media and public		K4
4. Analyze the global media content on the basis of their cultural change.		K4,K5
5. Advancement in their Communication skills and knowledge of the subject learned.		K2,K4
K1-Remember; K2- Understand; K3-Apply; K4-Analyze;K5-Evaluate;K6-Create		

Semester: II	23P	CORE PRACTICAL : BASICS OF PHOTOGRAPHY (PRACTICAL III)
EXPECTED COURSE OUTCOME :		
1. Understand the various specializations in the field of photography		K2
2. Analyze the skills in handling DSLR		K4
3. Develop the knowledge by incorporating the concept of image processing.		K2
4. Develop knowledge in various fields of photography		K2
5. Evaluate the creative techniques that can be used in photography.		K5
K1-Remember; K2- Understand; K3-Apply; K4-Analyze;K5-Evaluate;K6-Create		

Semester: II	23Q	CORE PRACTICAL: GRAPHIC DESIGN(PRACTICAL IV)
EXPECTED COURSE OUTCOME :		
1. Creative ability in the designing softwares.		K6
2. Students learn the maximum level of Graphic designing.		K2
3. Improve the designing skills at par with professional designers.		K3,K5
4. Comprehend and apply color theory and color psychology in design.		K2,K3
5. Able to create Graphic and web page design using softwares		K6
K1-Remember; K2- Understand; K3-Apply; K4-Analyze; K5-Evaluate;K6-Create		

Semester: II	2AA	ALLIED II : MEDIA LAWS AND ETHICS
EXPECTED COURSE OUTCOME :		
1. The constitutional aspect of Indian media will be understood by the students.		K2
2. Acquire knowledge of media law and regulation.		K2
3. Will comprehend media ethics and how the industry has adapted to it.		K2
4. Will comprehend media standards of behaviour and self-regulation.		K2
5. Possess the ability to do socially responsible journalism		K3
K1-Remember; K2- Understand; K3-Apply; K4-Analyze;K5-Evaluate;K6-Create		

Semester: III	33A	CORE III: MEDIA, SOCIETY AND CULTURE
EXPECTED COURSE OUTCOME :		
1. Explain the role of media in a changing global culture		K2
2. Determine communication strategies in integrating media literacy & cultural framework of the society.		K3
3. Report various approaches to Media Analysis to address social inequalities.		K6
4. Correlate the interplay between Media and Ideology.		K2
5. Explain the effects of Mass Media on Society by theorizing the media concepts.		K2
K1-Remember; K2- Understand; K3-Apply; K4-Analyze;K5-Evaluate;K6-Create		

Semester: III	33B	CORE IV : ADVERTISING AND PUBLICRELATIONS
EXPECTED COURSE OUTCOME :		
1. Remember the fundamentals of advertising and public relations.		K1
2. Gain awareness about advertising campaigns.		K2
3. Apply the various advertising strategies		K3
4. Acquire the knowledge in professional ethics of Advertising		K2
5. Apprehend various advertising media and its effective use.		K2
K1-Remember; K2- Understand; K3-Apply; K4-Analyze;K5-Evaluate;K6-Create		

Semester: III	3AA	ALLIED III : INTRODUCTION TO SOCIALMEDIA
EXPECTED COURSE OUTCOME :		
1. The students get knowledge between the Culture and new media		K2
2. They got aware of the social media.		K2
3. Understand the influence of digital media in communication.		K2
4. Adapt latest digital media technologies		K2
5. Apply digital media techniques in E-Content creation.		K6
K1-Remember; K2- Understand; K3-Apply; K4-Analyze; K5-Evaluate;K6-Create		

Semester: III	33P	ALLIED IV : Sound Design (Practical V)
EXPECTED COURSE OUTCOME :		
1. Ability to understand the basics of sound.		K2
2. Exposure to Audio workstation and Sound designing		K2
3. The students will become expertise in the audio tools.		K3,K6
4. Application of imaginative & creative approaches to problem solving inthe field of audio production		K3,K6
5. Development of skills in various sound recording and music production.		K4,K6
K1-Remember; K2- Understand; K3-Apply; K4-Analyze;K5-Evaluate; K6-Create		

Semester: III	3ZP	SKILL-BASED SUBJECT I : STORYTELLINGAND SCRIPT WRITING (PRACTICAL VI)
EXPECTED COURSE OUTCOME :		
1. An improvement in visual storytelling skills.		K3
2. The students get knowledge to write a screenplay.		K2
3. The improvement of efficiency through the story writing basics.		K3
4. Analyse the plots and sub plots.		K4
5. Develop creative skills in story development.		K6
K1-Remember; K2- Understand; K3-Apply; K4-Analyze;K5-Evaluate; K6-Create		

Semester: IV	43A	CORE V: PRINCIPLES OF USEREXPERIENCE DESIGN AND UI
EXPECTED COURSE OUTCOMES:		
1. At the end of the course, the student will be able		
2. To understand the UX principles.		
3. To differentiate between businesses-centred design and user-centred design.		
4. understand testing scenarios for usability		
5. To understand the prototyping for mobile and small screen devices.		
6. To design and develop content for different screen resolutions		

Semester: IV	43B	CORE VI: PRINCIPLES OF VFX ANDANIMATION
EXPECTED COURSE OUTCOME :		
1) Identify and demonstrate the knowledge in Visual Effects		K2
2) Analyze the practical knowledge and understand the role of Producers		K2
3) Utilize knowledge on advance techniques in Visual effects		K2
4) To build basic ideas and be familiar with important principles of animations		K2
5) Develop the fundamentals and various techniques in White board animations		K3
K1-Remember; K2- Understand; K3-Apply; K4-Analyze;K5-Evaluate;K6-Create		

Semester: IV	43P	CORE PRACTICAL : USER EXPERIENCE DESIGN AND USER INTERFACE (PRACTICAL VII)
EXPECTED COURSE OUTCOME :		
1. At the end of the course, the student will be able.		
2. To understand the UX principles.		
3. To differentiate between businesses-centered design and user-centered design.		
4. To understand testing scenarios for usability.		
5. To understand the prototyping for mobile and small screen devices.		
6. design and develop content for different screen resolutions		

Semester: IV	4ZP	Skill Based Subject: 2D Animation & Web Designing (Practical VIII)
EXPECTED COURSE OUTCOME :		
1. Understanding about 2D animation and Web Designing		K2
2. Understanding of 2D animation software and interface.		K2
3. Ability to create basic 2D animation through computer system.		K6
4. Ability to interpret web animation and film animation		K4
5. Ability to create Logo Animation, Animated Web Banner, 2D Product Ad, Web designing & Portfolio.		K6
K1-Remember; K2- Understand; K3-Apply; K4-Analyze; K5-Evaluate; K6-Create		

Semester: V	53A	CORE VII : INTRODUCTION TO VIRTUAL REALITY, AUGMENTED REALITY, AND MIXED REALITY
EXPECTED COURSE OUTCOME :		
1. Identify, examine, & develop software that reflects fundamental techniques for the design and deployment of VR and AR experiences.		K2,K4, K5
2. Describe how VR and AR systems work.		K1
3. Choose, develop, explain, and defend the use of particular designs for AR and VR experiences.		K2,K6
4. Evaluate the benefits and drawbacks of specific AR and VR techniques on the human body.		K5
5. Identify & examine state of the art AR and VR design problems and solutions from the industry & academic		K2,K5
K1-Remember; K2- Understand; K3-Apply; K4-Analyze; K5-Evaluate; K6-Create		

Semester: V	53B	CORE VIII : FILM STUDIES
EXPECTED COURSE OUTCOME :		
1. Aware about the film appreciations.		K2
2. Ability to incorporate the theories of film studies		K3
3. Improve the film production skills through the analysis techniques.		K3
4. Attain knowledge on Indian and World cinema.		K2
5. Distinguish between various Film Genres.		K4
K1-Remember; K2- Understand; K3-Apply; K4-Analyze; K5-Evaluate; K6-Create		

Semester: V	53C	CORE IX : FILM DIRECTION
EXPECTED COURSE OUTCOME :		
1. The students know the film directions techniques		K2
2. The improvement of efficiency through film language techniques.		K3,K5
3. Understand the cinematographic properties.		K2
4. Develop advanced techniques in the film production process.		K2
5. Appraise and appreciate cinema as an effective communication tool		K2, K3,K5
K1-Remember; K2- Understand; K3-Apply; K4-Analyze; K5-Evaluate; K6-Create		

Semester: V	53P	CORE PRACTICAL :DIGITAL FILMMAKING (PRACTICALS IX)
EXPECTED COURSE OUTCOME :		
1. Use technical & creative techniques to operate different video cameras.		K3
2. Produce, direct and edit narrative, documentary, and advertisement videos		K6
3. Handle different camera accessories		K3
4. Participate in a team-oriented environment		K3
5. Provide/receive constructive criticism and engage in creative production		K4,K6
K1-Remember; K2- Understand; K3-Apply; K4-Analyze;K5-Evaluate; K6-Create		

Semester: V	52P	SKILL BASED SUBJECT : III VIDEO EDITING PRACTICAL X
EXPECTED COURSE OUTCOME :		
1. Improvement in editing skills		K3
2. Improvise the editing knowledge through the specific editing tools		K2
3. Students learn the short cut keys in video editing		K2
4. Produce video by applying various editing techniques		K6
5. Combine audio and video elements as a meaningful visual language.		K2
K1-Remember; K2- Understand; K3-Apply; K4-Analyze;K5-Evaluate; K6-Create		

Semester: VI	63A	CORE X: DIGITAL MEDIA PRODUCTION
EXPECTED COURSE OUTCOME :		
1. Describe the steps of the OTT media		K2
2. To Identify different OTT Tools		K1
3. Communicate in the digital age		K3
4. Apply production skills and techniques in Digital Film Making		K3,K6
5. Evaluate and utilize of different online media		K5
K1-Remember; K2- Understand; K3-Apply; K4-Analyze;K5-Evaluate; K6-Create		

Semester: VI	63P	CORE: 3D ANIMATION (PRACTICALSXI)
EXPECTED COURSE OUTCOME :		
1. Understanding about basics of 3D animation and Special Effects		K2
2. Understanding of 3D modelling, interface and animation softwares		K2
3. Ability to create basic 3D animation through computer system.		K6
4. Ability to interpret 3D model and 3D animation		K4
5. Ability to create Story Board, Gaming Design, Logo Ad, Modelling, ProductAd		K6

Semester: VI	62P	SKILL BASED: TELEVISION PRODUCTION (PRACTICAL XII)
EXPECTED COURSE OUTCOME :		
1. Understand different stages of the television production process and various program formats		K2
2. Comprehend the techniques involved in television cameras, camcorders and visual grammar		K2
3. Categorize different formats of scripts, research, and treatment		K2
4. Understand various broadcasting formats in television industry.		K2
5. Produce good quality single camera and Multi-camera production by applying theoretical inputs.		K6




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Semester: VI	67V	MAJOR PROJECT
EXPECTED COURSE OUTCOME :		
1. Understanding the whole of a production process		K2
2. Analyse the nuances of a production		K4
3. Ability to create project on a topic of their own		K6
4. Ability to do a basic research for a production		K4
5. Ability to evaluate the production comparing industry standards		K5
K1-Remember; K2- Understand; K3-Apply; K4-Analyze;K5-Evaluate; K6-Create		

Semester: V	5EA	ELECTIVE I: INTRODUCTION TO FOLKLORE
EXPECTED COURSE OUTCOME :		
1. The students understand the tamil folklore culture.		K2
2. Acquire knowledge in Anthropology and linguistics.		K2
3. Adapt the trends in their works		K3
4. Analyse and learn through the classical literature		K4
5. Create new conceptualization from old ideas		K6
K1-Remember; K2- Understand; K3-Apply; K4-Analyze;K5-Evaluate; K6-Create		

Semester: VI	6EA	ELECTIVE II : FOLK LITERATURE
EXPECTED COURSE OUTCOME :		
1. The students understand the Tamil folklore narratives.		K2
2. Acquire knowledge in Tales and verse narratives.		K2
3. Study the types of folk songs		K2
4. Improvisation in usage of words and its context		K2
5. Learn local slangs and style of regional language		K2
K1-Remember; K2- Understand; K3-Apply; K4-Analyze;K5-Evaluate; K6-Create		

Semester: VI	6EC	ELECTIVE III : FOLK PERFORMING ARTS OF TAMILNADU
EXPECTED COURSE OUTCOME :		
1. The students understand the performing arts.		K2
2. Gain knowledge about various forms of folk arts		K2
3. Improvise the performance to next level		K2
4. Learn dialogue delivery		K2
5. Acquire theoretical knowledge in Performing arts.		K2
K1-Remember; K2- Understand; K3-Apply; K4-Analyze;K5-Evaluate; K6-Create		

Semester: V	5EB	ELECTIVE I : DIGITAL MARKETING
EXPECTED COURSE OUTCOME :		
1. Ability to develop marketing strategies based on product, price, place and promotion objectives.		K3, K6
2. Ability to create an integrated marketing communications plan which includes promotional strategies and measures of effectiveness.		K6
3. Acquiring knowledge in search engine optimisation.		K2
4. Learn to understand and meet the need of business digitally.		K2
5. Produce promotional contents skilfully.		K6
K1-Remember; K2- Understand; K3-Apply; K4-Analyze;K5-Evaluate; K6-Create		



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Semester: VI	6EB	ELECTIVE II : SOCIAL MEDIAMARKETING	
EXPECTED COURSE OUTCOME :			
1. Ability to develop marketing strategies based on product, price, place and promotion objectives.		K3,K6	
2. Ability to create an integrated marketing communications plan which includes promotional strategies and measures of effectiveness.		K6	
3. Understand the importance of audience area of interest		K2	
4. Selection of different platforms for specified outcome		K3	
5. Learn to produce trending media formats like shorts, vlogs etc.,		K6	
K1-Remember; K2- Understand; K3-Apply; K4-Analyze;K5-Evaluate; K6-Create			

Semester: VI	6ED	ELECTIVE III: GOOGLE ANALYTICS	
EXPECTED COURSE OUTCOME :			
1. To examine how the web influences the people.		K5	
2. improve their analytics abilities and understanding of the topic matter.		K3	
3. Apply the procedure of analyse the problem and finding the solution		K3	
4. To examine various data and improve decision making abilities		K4,K5	
5. Improvise technical skills in latest demand		K3	
K1-Remember; K2- Understand; K3-Apply; K4-Analyze;K5-Evaluate; K6-Create			

Semester: V	5EP	ELECTIVE I:MOTION GRAPHICS(PRACTICALS)	
EXPECTED COURSE OUTCOME :			
1. Ability to create basic Motion Graphics.		K6	
2. Learn to Animate with Keyframes		K2	
3. Understanding need of SFX		K2	
4. Enhancement in Rendering techniques		K3	
5. Ability to develop matte titling, colour correction, compositing etc		K6	
K1-Remember; K2- Understand; K3-Apply; K4-Analyze;K5-Evaluate; K6-Create			

Semester: VI	6EP	ELECTIVE II : VISUAL EFFECTSLEVEL I (PRACTICALS)	
EXPECTED COURSE OUTCOME			
1. Mastering text and shapes usage		K2,K3	
2. Enhancement in text animation		K2,K3	
3. Proficiency in woking with VFX softwares		K2,K3	
4. Enhance the real features in reel environment		K2,K3	
5. Improvisation in detailing features of the objects		K2,K3	
K1-Remember; K2- Understand; K3-Apply; K4-Analyze;K5-Evaluate; K6-Create			

Semester: VI	6EQ	ELECTIVE III (PRACTICALS) :VISUAL EFFECTS LEVEL II	
EXPECTED COURSE OUTCOME :			
1. Will able to create professional quality CG works		K6	
2. Efficiency in advanced tracking techniques		K6	
3. Will be contented in handling the properties of 3D camera		K2	
4. Learning frame by frame corrections		K2	
5. To produce creative backgrounds and interface		K6	
K1-Remember; K2- Understand; K3-Apply; K4-Analyze;K5-Evaluate; K6-Create			



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