



## **SRI SARADA COLLEGE FOR WOMEN**

(An Autonomous Institution)

(Reaccredited with “A” grade by NAAC)

Institution included u/s 2(f) and 12(B) of UGC

Affiliated to Manonmaniam Sundaranar University

(A branch of Sri Ramakrishna Tapovanam, Tirupparaithurai)

**Ariyakulam, Tirunelveli Thoothukudi –High Road, Maharaja Nagar Post,  
TIRUNELVELI- 627 011**



### **Criteria –II**

#### **2.6 STUDENT PERFORMANCE AND LEARNING OUTCOMES**

**2.6.1 Programme Outcomes and Course Outcomes for all  
Programmes offered by the institution are stated and displayed  
on the website and communicated to teachers**

**2023-24**



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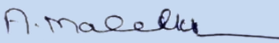
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SEMESTER-I Economics		
Major paper	<b>Micro Economics -I</b>	<ul style="list-style-type: none"><li>Understand the meaning of basic concepts and the need for the study of Microeconomics</li><li>Evaluate the types of utility and Consumer Behaviour</li></ul>
Major paper	<b>Statistics for Economics-I</b>	<ul style="list-style-type: none"><li>Understand the overview of Statistics and basic knowledge of statistical tools</li><li>Differentiate types of data and its classification</li></ul>
Elective paper	<b>Fundamentals of Management</b>	<ul style="list-style-type: none"><li>Understand the foundations and importance of management</li><li>Demonstrate an understanding of planning</li></ul>
Elective paper	<b>Introduction to Sociology</b>	<ul style="list-style-type: none"><li>Understand the contributions of sociologists in the field of sociology</li><li>Understand the basic aspects of sociology</li></ul>
SEC-I	<b>Demography</b>	<ul style="list-style-type: none"><li>Describe the various theories of population Growth</li><li>Understand demographic indicators</li></ul>
Skill Enhancement	<b>Business Communication</b>	<ul style="list-style-type: none"><li>Understand the basics of Communication and its process, Elements, and its importance.</li><li>Acquire communication skills</li></ul>

SEMESTER-II		
Major paper	<b>Micro Economics -II</b>	<ul style="list-style-type: none"><li>Understand the equilibrium conditions in perfect competition.</li><li>Analyze the equilibrium conditions under Monopoly Market Structure</li></ul>
Major paper	<b>Statistics for Economics-II</b>	<ul style="list-style-type: none"><li>Gain knowledge on the index numbers</li><li>Analyse the importance of Time series data and its measurement</li></ul>
Elective paper	<b>History of Economic Thought</b>	<ul style="list-style-type: none"><li>Acquire knowledge on the subject matter of History of Economic thought</li><li>Understand the contributions of the Classical ideas of Economics.</li></ul>

  
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Elective paper	<b>Introduction to E-Commerce</b>	<ul style="list-style-type: none"> <li>Understand the pros &amp; cons on E-Commerce</li> <li>Analyze the various models of E-Commerce</li> </ul>
SEC	<b>Economics for Investors</b>	<ul style="list-style-type: none"> <li>Describe the types and importance of savings and investments.</li> <li>Explain the available for investment avenues.</li> </ul>
SEC	<b>Computer Applications in Economics</b>	<ul style="list-style-type: none"> <li>Understand basic components of computer and its function.</li> <li>Gain knowledge of MS-Office.</li> </ul>

### SEMESTER-III

Major paper	<b>Mathematical Methods</b>	<ul style="list-style-type: none"> <li>To understand the meaning and significance of elementary mathematical tools.</li> <li>To understand the concept of mathematical techniques.</li> </ul>
Major paper	<b>International Economics</b>	<ul style="list-style-type: none"> <li>To study the determinants of exchange rates and balance of payments</li> <li>To understand the analysis of foreign exchange transactions</li> </ul>
Allied - 3	<b>Health Economics</b>	<ul style="list-style-type: none"> <li>To assess the efficiency and effectiveness of functions and their costimplication.</li> <li>To understand the policy relevance and utility through Planning</li> </ul>
NME-1	<b>Essentials of Economics</b>	<ul style="list-style-type: none"> <li>To learn about product pricing under different market conditions.</li> <li>To enhance the knowledge and productivity level and to Investment.</li> </ul>
NME -1	<b>Economics Insurance</b>	<ul style="list-style-type: none"> <li>To provide basic knowledge of insurance.</li> <li>To know the essentials of insurance.</li> </ul>

### SEMESTER-IV

Major paper	<b>Mathematical Economics</b>	<ul style="list-style-type: none"> <li>To enable students to apply mathematics to understand economic theory.</li> <li>To use appropriate mathematical concepts to solve economic problems.</li> </ul>
Major paper	<b>International Economic Theories and Polices</b>	<ul style="list-style-type: none"> <li>To study the theories of international trade in goods and services</li> <li>To study the recent trend in India's foreign trade</li> </ul>
Allied-41	<b>Rural Economics</b>	<ul style="list-style-type: none"> <li>To understand the features of rural economy and to highlight the needto develop rural areas.</li> <li>To bring into the light the problems of rural villages and to familiarizethe initiatives undertaken.</li> </ul>

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Skilled Based-2	<b>Entrepreneurial Enhancement</b>	<ul style="list-style-type: none"> <li>To Understand the role of women entrepreneurs</li> <li>To motivate to Start enterprises by using institutional supports</li> </ul>
NME-2	<b>Issues in Indian Economy</b>	<ul style="list-style-type: none"> <li>To study the Characteristics of Indian Economy.</li> <li>To understand the causes and consequences of Poverty</li> </ul>
NME -2	<b>Economics of Salesmanship</b>	<ul style="list-style-type: none"> <li>To provide basic knowledge of salesman in marketing.</li> <li>To develop salesmanship skills in students</li> </ul>

### SEMESTER-V

Major paper	<b>Basics of MacroEconomics</b>	<ul style="list-style-type: none"> <li>To Study the significance and limitations of Macro Economics Analysis</li> <li>To study the concept of National Income and multiplier efforts.</li> </ul>
Major paper	<b>Money and Banking</b>	<ul style="list-style-type: none"> <li>To Study the functions &amp; kinds of Money</li> <li>To learn the Importance of Commercial, Central, and Modern Banking.</li> </ul>
Major paper	<b>Indian Economy</b>	<ul style="list-style-type: none"> <li>To study the causes of poverty and unemployment</li> <li>To compare the role of agriculture and industry in Indian Economy</li> </ul>
Major paper	<b>Industrial Economics</b>	<ul style="list-style-type: none"> <li>To study the industrial development with foreign collaboration</li> <li>To study the sources and importance of industrial finance and government policy</li> </ul>
Common	<b>Economics for Competitive Examinations</b>	<ul style="list-style-type: none"> <li>To assess the trend of Indian economy in various sectors</li> <li>To familiar with current affairs of Indian economy for the preparation of competitive examinations.</li> </ul>

### SEMESTER-VI

Common	<b>Project</b>	<ul style="list-style-type: none"> <li>To have hands on training in the fields of economic sectors.</li> <li>To train presentation skill in the open forum.</li> </ul>
Major paper	<b>Macro Economic Theory and Practice</b>	<ul style="list-style-type: none"> <li>To enable the students to understand the concepts, theoretical foundations and methods of analysis in Macro Economics.</li> <li>To develop the skill in evaluating macroeconomic policies of economic development</li> </ul>

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Major paper	<b>Public Finance</b>	<ul style="list-style-type: none"><li>To Understand the equitable distribution of wealth within the society.</li><li>To understand the importance of Public finance, taxation, state and central budget.</li></ul>
Major paper	<b>Planning and Growth</b>	<ul style="list-style-type: none"><li>To examine the core issues and theories in economic development.</li><li>To gain knowledge about the dynamics of development.</li></ul>
Major paper	<b>Labour Economics</b>	<ul style="list-style-type: none"><li>To understand the functioning and dynamics of the market for wage labour.</li><li>To Study the importance of social security to unorganized sector workers.</li></ul>
Major paper	<b>Economic Thinkers</b>	<ul style="list-style-type: none"><li>To assess the efficiency and effectiveness of functions and their cost implication.</li><li>To understand the policy relevance and utility through Planning</li></ul>
Major paper	<b>Demographic Economics</b>	<ul style="list-style-type: none"><li>To understand the meaning and significance of Democracy in economics.</li><li>To know the knowledge about the Size, Composition and distribution of Population.</li></ul>

### SEMESTER-I

#### English

Part-II	<b>General English</b>	<ul style="list-style-type: none"><li>Develop and integrate the use of the four language skills i.e., Reading, Listening, Speaking and Writing</li><li>Understand the total content and underlying meaning in the context</li></ul>
Major paper	<b>Introduction to Literature</b>	<ul style="list-style-type: none"><li>Appreciate and analyse the basic elements of poetry, including meter, rhyme and theme.</li><li>Gain knowledge of the elements of fiction including narrative structure, character analysis and comparison between different but related text.</li></ul>
Major paper	<b>Indian Writing in English</b>	<ul style="list-style-type: none"><li>Appreciate the historical trajectory of various genres of Indian writing in English from colonial times to till the present</li><li>Analyze Indian literary texts written in English in terms of colonialism, regionalism, and nationalism</li></ul>
Major paper	<b>Social History of English (Elective)</b>	<ul style="list-style-type: none"><li>Gain Extensive insight into the history of English literature, while laying special emphasis on various literary movements, genres and writers that are held to be the representatives of their times.</li><li>Evaluate the way socio-cultural and historical phenomena influence the literary production of a particular period</li></ul>

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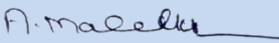
NME	<b>Popular literature and culture</b>	<ul style="list-style-type: none"><li>• Have a diachronic understanding of the evolution of philosophy from the time of greek masters to 20<sup>th</sup> century.</li><li>• Have an awareness of the major schools of thought in western philosophy.</li></ul>
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### SEMESTER-II

Part-II	<b>General English-II</b>	<ul style="list-style-type: none"><li>• Realize the importance of resilience</li><li>• Become good decision-makers</li></ul>
Major paper	<b>British Literature-I</b>	<ul style="list-style-type: none"><li>• Demonstrate knowledge of the major social, political, philosophical and scientific events forming the back drop for the development of early British Literature</li><li>• Synthesize integrate and connection formation by writing essays using techniques of criticism and evaluation.</li></ul>
Major paper	<b>American Literature-I</b>	<ul style="list-style-type: none"><li>• Analyze and discuss works of American literature from a range of genres</li><li>• Identify relationships between moments in American history, colonialism and culture and their representation in works of American literature.</li></ul>
Major paper	<b>History of English Literature (Elective)</b>	<ul style="list-style-type: none"><li>• Gain extensive insight into the history of English literature, while laying special emphasis on various literary movements, genres and writers that are held to be the representatives of their times.</li><li>• Evaluate the way socio-cultural and historical phenomena influence the literary production of a particular period</li></ul>
NME	<b>Philosophy for Literature</b>	<ul style="list-style-type: none"><li>• Have a diachronic understanding of the evolution of philosophy from the time of greek masters to 20<sup>th</sup> century.</li><li>• Have an awareness of the major schools of thought in western philosophy.</li></ul>
SEC	<b>English for Communication</b>	<ul style="list-style-type: none"><li>• Identify the basic principles of communication</li><li>• Analyze the various types of communication</li></ul>
SEC	<b>Entrepreneurial Skills</b>	<ul style="list-style-type: none"><li>• Understand the foundation of Entrepreneurship Development and its theories.</li><li>• Explore entrepreneurial skills and management function of a company.</li></ul>

  
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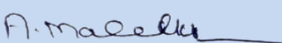
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SEMESTER-I		
M.A English		
Core	<b>English Poetry</b>	<ul style="list-style-type: none"><li>Gain ideas about the old English writing style.</li><li>Acquire knowledge about various forms of poetry during different centuries.</li></ul>
Core	<b>English Drame</b>	<ul style="list-style-type: none"><li>Appraise various aspects of drama and theatre.</li><li>Identify drama and performance as a culturl process and an artistic discourse.</li></ul>
Core	<b>English Fiction</b>	<ul style="list-style-type: none"><li>Gain wide knowledge about fifferent types of novels.</li><li>Learn the art of writing different forms of novel with the learned notions.</li></ul>
Elective	<b>Indian Writing in English</b>	<ul style="list-style-type: none"><li>Understand the themes of Indian Writing in English.</li><li>Identify the major trends in Indian Writing in English</li></ul>
Elective	<b>Theatre Art</b>	<ul style="list-style-type: none"><li>Understand a Broad range of theatrical disciplinesand Experience</li><li>Identify the diversity of theatrical experiences and the role of theatre in socity.</li></ul>

SEMESTER-II		
Core	<b>American Literature</b>	<ul style="list-style-type: none"><li>Analyze the movements and trends that shaped American literature</li><li>Estimate various speeches and concepts of living which changed American history.</li></ul>
Core	<b>Shakespeare Studies</b>	<ul style="list-style-type: none"><li>Critically understanding the appreciations by critics on Shakespeare.</li><li>Understand Elizabeth an theatre and the theatre's development.</li></ul>
Core	<b>Post- colonial theory and literature</b>	<ul style="list-style-type: none"><li>Critically understanding the political and social background of the third world nations.</li><li>Understand the emerging trends in Post-Colonial Literature</li></ul>
Core	<b>Approaches to language Teaching</b>	<ul style="list-style-type: none"><li>Know the brief history of language teaching methods</li><li>Understanding the difference between the terms, methods, approached and techniques used in teaching</li></ul>
Elective	<b>A Glimps of Nobel Laureates</b>	<ul style="list-style-type: none"><li>Relate the outstanding works of Nobel Laureates in an idealistic direction that adds the greatest benefit to human kind.</li><li>Interprept the works of various Nobel Laureates.</li></ul>

  
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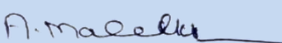
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SEMESTER-I Commerce		
Major paper	<b>Financial Accounting-I</b>	<ul style="list-style-type: none"><li>Remember the concept of rectification of errors and bank reconciliation statements</li><li>Apply the knowledge in preparing detailed accounts of sole trading concerns</li></ul>
Major paper	<b>Principles of Management</b>	<ul style="list-style-type: none"><li>Demonstrate the importance of principles of management</li><li>Paraphrase the importance of planning and decision making in an organization.</li></ul>
Elective paper	<b>Business Communication</b>	<ul style="list-style-type: none"><li>Acquire the basic concept of business communication</li><li>Exposed of effective business letter</li></ul>
Elective paper	<b>Indian Economic Development</b>	<ul style="list-style-type: none"><li>Elaborate the role of state and Market in Economic Development</li><li>Explain the Sectorial contribution to National Income</li></ul>
Elective paper	<b>Business Economics</b>	<ul style="list-style-type: none"><li>Explain the positive and negative approaches in economic analysis</li><li>Understood the factors of demand forecasting</li></ul>
SEC	<b>Fundamentals of Financial Accounting</b>	<ul style="list-style-type: none"><li>Learn the principles of book keeping and its features.</li><li>Record the transactions in the books of accounts under double entry system</li></ul>

SEMESTER-II		
Major paper	<b>Financial Accounting-II</b>	<ul style="list-style-type: none"><li>To evaluate the Hire purchase accounts and Instalment systems</li><li>To prepare Branch accounts and Departmental Accounts</li></ul>
Major paper	<b>Business Law</b>	<ul style="list-style-type: none"><li>Explain the Objectives and significance of Mercantile law</li><li>Understand the clauses and exception of Indian Contract Act.</li></ul>
Elective	<b>Business Environment</b>	<ul style="list-style-type: none"><li>Remember the nexus between environment and business.</li><li>Apply the knowledge of political Environment in which the business operate.</li></ul>
Elective	<b>Insurance and Risk Management</b>	<ul style="list-style-type: none"><li>Identify the workings of insurance and hedging</li><li>Evaluate the types of insurance policies and settlement</li></ul>
Elective	<b>International Trade</b>	<ul style="list-style-type: none"><li>Distinguish between the concept of internal and international trade.</li><li>Define the various theories of international trade.</li></ul>

  
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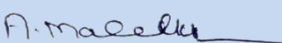
SEC	<b>Elements of Income Tax</b>	<ul style="list-style-type: none"><li>Acquire the knowledge about fundamental concepts of Indian Income Tax Law.</li><li>Learn the taxable income under various heads.</li></ul>
SEC	<b>Human Rights</b>	<ul style="list-style-type: none"><li>Understand the History of Human Rights</li><li>Learn about the knowledge of International Human Rights Law</li></ul>
SEC	<b>Securities Market</b>	<ul style="list-style-type: none"><li>Familiarised with Capital Formation</li><li>Understand the functions of exchange in India</li></ul>

### SEMESTER-III

Core5	<b>Business Accounting</b>	<ul style="list-style-type: none"><li>able to learn the number of transactions occurred in the department account</li><li>Able to find out the nature of expenses</li><li>Incurred in the department account and its requirement.</li></ul>
Core6	<b>Business Mathematics</b>	<ul style="list-style-type: none"><li>To provide the students with basic knowledge of mathematical techniques In number system and equation.</li><li>To enable the students olearnlogical idea to find out practical solutions for the managerial problems.</li></ul>
Allied 3	<b>Banking Technology</b>	<ul style="list-style-type: none"><li>To make the students to learn banking system.</li><li>To enable the student know the use of Ms Office.</li></ul>
NME	<b>Principles of Accountancy</b>	<ul style="list-style-type: none"><li>To enable the students to prepare and provide accounting information tothe interested parties.</li><li>To enhance the students with the knowledge of fundamental and technical concepts of accounting.</li></ul>
NME	<b>Consumer Awareness</b>	<ul style="list-style-type: none"><li>To create awareness regarding the intellectual property rights and consumer protection.</li><li>To avail the knowledge of better quality of living as consumers.</li></ul>
SkillBased	<b>Entrepreneurship Skill Development</b>	<ul style="list-style-type: none"><li>To enable the students to develop and strengthen the entrepreneurial quality.</li><li>To make the students to know about business communication.</li></ul>

  
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### SEMESTER-IV

Core7	<b>Partnership Accounting</b>	<ul style="list-style-type: none"><li>To enable the students to understand the nature and system of accounting followed in Partnership firm.</li></ul>
Core8	<b>Business Statistics</b>	<ul style="list-style-type: none"><li>To provide the students with basic knowledge of statistical techniques as are applicable business.</li></ul>
Allied 4	<b>Human Resource Management</b>	<ul style="list-style-type: none"><li>To make the students learn about the importance of human resource and office management.</li></ul>
NME	<b>Financial Accounting</b>	<ul style="list-style-type: none"><li>To make the students learn about the concept and role of Accounting and financial reporting in the marketing economy.</li></ul>
NME	<b>Human Rights</b>	<ul style="list-style-type: none"><li>To make the students to understand the basic concepts of human rights.</li><li>To enable the students to learn about the relationship between individual, group and national rights</li></ul>
Skill Based	<b>Goods and Service Tax</b>	<ul style="list-style-type: none"><li>To inculcate the applicability of Indirect Taxes and e-commerce in the students day today life.</li></ul>

### SEMESTER-V

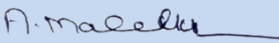
Core9	<b>Corporate Accounting</b>	<ul style="list-style-type: none"><li>To make the students to study the issue, allotment and for feature of shares of companies.</li></ul>
Core10	<b>Cost Accounting</b>	<ul style="list-style-type: none"><li>To acquire the basic knowledge of cost in business concerns.</li><li>To understand the technique of cost control.</li></ul>
Core11	<b>Business Law</b>	<ul style="list-style-type: none"><li>To make the students to understand the definition of business law.</li></ul>
Core 12	<b>Income Tax, Law and Practice-I</b>	<ul style="list-style-type: none"><li>To make the students to apply the basic concepts of income tax.</li></ul>
Core13	<b>Commerce</b>	<ul style="list-style-type: none"><li>To enable the students apply the acquired knowledge Professional Competencies.</li></ul>

### SEMESTER-VI

Core14	<b>Company Accounts</b>	<ul style="list-style-type: none"><li>To know the preparation of liquidator's final statement of accounts.</li><li>To prepare the final accounts of banking company and Holding Company.</li></ul>
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Core15	<b>Management Accounting</b>	<ul style="list-style-type: none"> <li>To familiarize the students with the basic management accounting concepts and their applications in managerial decision-making</li> </ul>
Core16	<b>Industrial Law</b>	<ul style="list-style-type: none"> <li>To acquaint knowledge on industrial relations frame working our country</li> <li>To study various rights and benefits available to the work men under the legislations.</li> </ul>
Core17	<b>Auditing</b>	<ul style="list-style-type: none"> <li>To know the importance of audit in commercial and non-commercial organizations.</li> </ul>
Core 18	<b>Income Tax Law and Practice-II</b>	<ul style="list-style-type: none"> <li>To impart the students of now the procedure for assessment and types of assessment.</li> </ul>
Core 19	<b>Application of Tally in Accounting</b>	<ul style="list-style-type: none"> <li>To impart practical knowledge regarding the concepts of Financial Accounting.</li> <li>To get knowledge on accounting software.</li> </ul>
Practical I	<b>Application of Tally in Accounting-Practical</b>	<ul style="list-style-type: none"> <li>To impart practical knowledge regarding the concepts of Financial Accounting.</li> <li>To get knowledge on accounting software.</li> </ul>

### SEMESTER-I M.Com

Core	<b>Business Finance</b>	<ul style="list-style-type: none"> <li>Explain the important finance concepts</li> <li>Estimate risk and determine its impact on return.</li> </ul>
Core	<b>Digital Marketing</b>	<ul style="list-style-type: none"> <li>Explain the dynamics of digital marketing.</li> <li>Examine online marketing mix.</li> </ul>
Core	<b>Banking and Insurance</b>	<ul style="list-style-type: none"> <li>Relate the transformation in banking from traditional to new age.</li> <li>Apply modern techniques of digital banking.</li> </ul>
Elective	<b>Operation Research</b>	<ul style="list-style-type: none"> <li>Apply Linear programming.</li> <li>Identify models for problem solving</li> </ul>
Elective	<b>Strategic Human Resource Management</b>	<ul style="list-style-type: none"> <li>Recall the fundamentals of strategic Human Resource Management.</li> <li>Examine the conceptual framework of strategic Human Resource Management Models.</li> </ul>

*Amala*  
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### SEMESTER-II

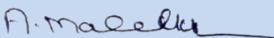
Core	<b>Strategic cost Management</b>	<ul style="list-style-type: none"><li>• Explain Strategic cost management and QC</li><li>• Choose the appropriate technique for cost control</li></ul>
Core	<b>Corporate Accounting</b>	<ul style="list-style-type: none"><li>• Determine profit and financial position by preparing financial statements of companies as per schedule III of Companies Act, 2013.</li><li>• Apply the Provisions of IRDA Regulations in the preparation of final accounts of Life Insurance and General Insurance Companies.</li></ul>
Core	<b>Setting up of Business Entities</b>	<ul style="list-style-type: none"><li>• Compare the various avenues of acquiring finance to setup a business entity</li><li>• Recall the legal requirements for Section 8 Company.</li></ul>
Elective	<b>Audit and due diligence</b>	<ul style="list-style-type: none"><li>• Compare different types of audit</li><li>• Assess the provisions relating to secretarial audit.</li></ul>
Elective	<b>Logistics and supply chain management</b>	<ul style="list-style-type: none"><li>• Recall the concept of features of SCM</li><li>• Summarise global and Indian perspective of SCM</li></ul>

### SEMESTER-III

<b>Core – 11</b>	<b>ADVANCED CORPORATE ACCOUNTING</b>	<ul style="list-style-type: none"><li>• The students can understand,</li><li>• Understand the factors affecting valuation of goodwill.</li></ul>
<b>Core - 12</b>	<b>TAXATION AND TAX PLANNING</b>	<ul style="list-style-type: none"><li>• The students can ,</li><li>• Understand the basic concept of Income Tax</li><li>• Understand canons of taxation.</li></ul>
<b>Core – 13</b>	<b>RESEARCH METHODOLOGY</b>	<ul style="list-style-type: none"><li>• To make the students to plan and understand the research.</li><li>• To make the students to understand various research design, sampling design and techniques</li></ul>
<b>Core - 14</b>	<b>SECURITY ANALYSIS AND PORT FOLIO MANAGEMENT</b>	<ul style="list-style-type: none"><li>• The students can,</li><li>• Be aware of meaning and importance of investment.</li><li>• Gain knowledge on investment attributes.</li></ul>

  
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<b>Core -15</b>	<b>STRATEGIC MANAGEMENT</b>	<ul style="list-style-type: none"><li>• The students can,</li><li>• Know the meaning of corporate strategic planning.</li><li>• Identify the vision and mission of the firm.</li></ul>
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## SEMESTER-IV

<b>Core - 16</b>	<b>ADVANCED COST ACCOUNTING</b>	<ul style="list-style-type: none"><li>• The students can,</li><li>• Prepare cost sheet.</li><li>• Identify the need for quantity level of material in business.</li></ul>
<b>Core -17</b>	<b>COMPUTERIZED ACCOUNTING PACKAGES- TALLY ERP 9</b>	<ul style="list-style-type: none"><li>• The students can,</li><li>• Identify the new features of Tally9.0.</li><li>• Acquire the practical knowledge on Tally ERP9.</li></ul>
<b>Practical 1</b>	<b>COMPUTERIZED ACCOUNTING PACKAGES- TALLY ERP 9</b>	<ul style="list-style-type: none"><li>• Identify the new features of Tally9.0.</li><li>• Acquire the practical knowledge on Tally ERP9.</li></ul>
<b>Core -18</b>	<b>HUMAN RESOURCE MANAGEMENT</b>	<ul style="list-style-type: none"><li>• The students can,</li><li>• Identify the functions of human resource manager.</li><li>• Be aware of the strategic human resource management.</li></ul>
<b>Core -19</b>	<b>FINANCIALSERVICES</b>	<ul style="list-style-type: none"><li>• The students can,</li><li>• Understand the meaning of financial services.</li><li>• Know the players in the financial market.</li></ul>
<b>Core -20</b>	<b>PROJECT</b>	<ul style="list-style-type: none"><li>• Identify the functions of human resource manager.</li><li>• Be aware of the strategic human resource management.</li></ul>

## SEMESTER-I B.Com(CS)

Major Paper	<b>Financial Accounting-I</b>	<ul style="list-style-type: none"><li>• Recall and Explain the fundamentals of accounting and the preparation of financial statements</li><li>• Explain and preparation of Income and Expenditure account and balance sheet for non-trading organizations.</li></ul>
Major Paper	<b>Corporate Correspondence</b>	<ul style="list-style-type: none"><li>• Inherit the knowledge on introduction to communication.</li><li>• Identify &amp; Analyse the different types of communication</li></ul>

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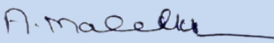
Elective	<b>Corporate E-Management</b>	<ul style="list-style-type: none"><li>• Define computer, its classification and uses in business</li><li>• Discuss and explain the operating system, hardware and software and computer networks.</li></ul>
Elective	<b>Indian Economic Development</b>	<ul style="list-style-type: none"><li>• Elaborate the role of state and Market in Economic Development</li><li>• Explain the Sectorial contribution to National Income</li></ul>
Elective paper	<b>Business Economics</b>	<ul style="list-style-type: none"><li>• Explain the positive and negative approaches in economic analysis</li><li>• Understood the factors of demand forecasting</li></ul>
NME	<b>Basics of Personal Finance and Investment Planning</b>	<ul style="list-style-type: none"><li>• Understand and exhibit the skill to plan personal finance</li><li>• Learn the time value of money and power of computing.</li></ul>
NME	<b>Logistics Management</b>	<ul style="list-style-type: none"><li>• Understand the basic concepts of Logistics</li><li>• Identify the opportunities in the field of logistics</li></ul>
FC	<b>Fundamental concepts of Accounting and Commerce</b>	<ul style="list-style-type: none"><li>• Understand and apply the principles of accounting</li><li>• Demonstrate an overview of understanding of commerce and allied fields</li></ul>

### SEMESTER-II

Major Paper	<b>Financial Accounting-II</b>	<ul style="list-style-type: none"><li>• To evaluate the Hire purchase accounts and Instalment systems.</li><li>• To prepare Branch accounts and Departmental Accounts</li></ul>
Major Paper	<b>Business law</b>	<ul style="list-style-type: none"><li>• Explain the Objectives and significance of Mercantile law</li><li>• Understand the clauses and exception of Indian Contract Act.</li></ul>
Elective	<b>Office Management and Secretarial Practice</b>	<ul style="list-style-type: none"><li>• Familiarised with modern office management</li><li>• Adapt with the odern work atmosphere</li></ul>
Elective	<b>Business Environment</b>	<ul style="list-style-type: none"><li>• Remenber the nexus between environment and business.</li><li>• Apply the knowledge of political Environment in which the business operate</li></ul>
Elective paper	<b>International Trade</b>	<ul style="list-style-type: none"><li>• Distinguish between the concept of internal and international trade.</li><li>• Define the various theories of international trade.</li></ul>

  
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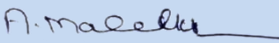
SEC	<b>Every day Banking</b>	<ul style="list-style-type: none"><li>Exhibit the skill to perform basic banking operations and distinguish between basic documents</li><li>Execute online, mobile banking and related transactions</li></ul>
SEC	<b>Consumer Awareness</b>	<ul style="list-style-type: none"><li>The types of consumers</li><li>The evolution and growth of consumer movement in India.</li></ul>
SEC	<b>Principles of Management</b>	<ul style="list-style-type: none"><li>Demonstrate the importance of principles of management</li><li>Paraphrase the importance of planning and decision making in an organization</li></ul>

### SEMESTER-III

CORE -5	<b>BUSINESS ACCOUNTING</b>	<ul style="list-style-type: none"><li>To know the system of Accounting followed in Branches and Departments of business organization.</li><li>To know the pattern of recording transactions in Hire Purchase and Installment Purchase systems.</li></ul>
CORE - 6	<b>BUSINESS MATHEMATICS</b>	<ul style="list-style-type: none"><li>To provide basic knowledge of mathematical techniques applicable to business.</li><li>To provide logical idea to find out practical solution for the managerial problems.</li></ul>
Skill based I	<b>MODERN BANKING</b>	<ul style="list-style-type: none"><li>To create an idea of modern banking</li><li>To familiarize the students with the banking activities</li><li>To familiarize the students with the knowledge of the traditional banking system.</li></ul>
ALLIED III	<b>COMPANY SECRETARIAL PRACTICE AND CAREER ACTUALIZATION</b>	<ul style="list-style-type: none"><li>To gain the knowledge of the secretarial practice in various areas.</li><li>To understand the conduct of meetings and winding up procedures.</li></ul>
NON-MAJOR ELECTIVE -I	<b>PRINCIPLES OF MARKETING</b>	<ul style="list-style-type: none"><li>To acquire knowledge on functions of marketing.</li><li>To have awareness on pricing, promotion and personal selling.</li></ul>
NON-MAJOR ELECTIVE -I	<b>CONSUMER AWARENESS</b>	<ul style="list-style-type: none"><li>To create awareness regarding the intellectual property rights and consumer protection.</li><li>To avail the knowledge of better quality of living as consumers.</li></ul>

  
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### SEMESTER-IV

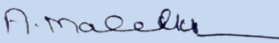
<b>CORE –7</b>	<b>PARTNERSHIP ACCOUNTING</b>	<ul style="list-style-type: none"><li>To enable the students to understand the nature and system of accounting followed in Partnership firm.</li></ul>
<b>CORE – 8</b>	<b>BUSINESS STATISTICS</b>	<ul style="list-style-type: none"><li>To provide the students with basic knowledge of statistical techniques as applicable to business.</li><li>To enable the students to apply statistical techniques for quantification of data in business.</li></ul>
<b>Skill based II</b>	<b>CAPITAL MARKET AND CORPORATE FINANCE</b>	<ul style="list-style-type: none"><li>To understand the meaning and importance of Financial and Capital markets.</li><li>To create an interest among students towards stock market investment.</li><li>To obtain knowledge on Securities analysis.</li></ul>
<b>Allied - IV</b>	<b>DYNAMICS OF ENTREPRENEURSHIP DEVELOPMENT</b>	<ul style="list-style-type: none"><li>To develop and strengthen the entrepreneurial quality among the students</li><li>To know the sources of help and support available for starting a small-scale Industry.</li><li>To obtain knowledge about starting new business.</li></ul>
<b>NON – MAJOR ELECTIVE - II</b>	<b>HUMAN RIGHTS</b>	<ul style="list-style-type: none"><li>Be aware of human rights.</li><li>Understand the rights and characteristics of human rights.</li></ul>
<b>NON – MAJOR ELECTIVE - II</b>	<b>ENTREPRENEURSHIP DEVELOPMENT</b>	<ul style="list-style-type: none"><li>The students can be familiar with,</li><li>The factors of entrepreneurial development.</li><li>The types of Entrepreneurship</li></ul>

### SEMESTER-V

<b>CORE – 9</b>	<b>CORPORATE ACCOUNTING</b>	<ul style="list-style-type: none"><li>To make the students to study the issue, allotment and forfeiture of shares of companies.</li></ul>
<b>CORE – 10</b>	<b>COST ACCOUNTING</b>	<ul style="list-style-type: none"><li>To acquire the basic knowledge of cost in business concerns.</li><li>To understand the techniques of cost control.</li></ul>

  
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<b>CORE -11</b>	<b>BUSINESS LAW</b>	<ul style="list-style-type: none"> <li>To make the students to understand the definition of business law.</li> <li>To enable the students to study the scope and boundaries of businesslaw.</li> </ul>
<b>CORE – 12</b>	<b>INCOME TAX LAW &amp; PRACTICE I</b>	<ul style="list-style-type: none"> <li>The student can</li> <li>be able to understand the basic concepts of capital and revenueexpenditures and incomes</li> <li>be able to know about the taxable entities in detail</li> </ul>
<b>Core -13</b>	<b>COMMERCE FOR COMPETITIVE EXAMINATIONS &amp; PROJECT</b>	<ul style="list-style-type: none"> <li>The students can</li> <li>be able to understand the basic concepts of capital and revenueexpenditures and incomes</li> </ul>
<b>Core -13</b>	<b>PROJECT</b>	<ul style="list-style-type: none"> <li>To make the students to study the issue, allotment and forfeiture ofshares of companies.</li> </ul>
<b>Skill Based I Common</b>	<b>PERSONALITY DEVELOPMENT</b>	<ul style="list-style-type: none"> <li>To know the preparation of liquidator’s final statement of accounts.</li> </ul>

### SEMESTER-VI

<b>Core - 14</b>	<b>COMPANY ACCOUNTS</b>	<ul style="list-style-type: none"> <li>To prepare the final accounts of banking company and Holding Company.</li> <li>To train the students to prepare final accountsunder double account system and Human Resource Accounting.</li> </ul>
<b>Core - 15</b>	<b>MANAGEMENT ACCOUNTING</b>	<ul style="list-style-type: none"> <li>The students can</li> <li>understand fundamentals of Management accounting Principles.</li> <li>know about Management accounting and Financial accounting.</li> </ul>
<b>Core – 16</b>	<b>INDUSTRIAL LAW</b>	<ul style="list-style-type: none"> <li>The students can ,</li> <li>Be aware of The Factories Act.</li> <li>Gain an idea on approval, licensing and registration of factories.</li> </ul>
<b>Core - 17</b>	<b>AUDITING</b>	<ul style="list-style-type: none"> <li>The students can understand,</li> <li>The concept of auditing.</li> <li>The process of audit program me and audit working papers.</li> </ul>

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Core - 18	<b>INCOME TAX LAW &amp; PRACTICE II</b>	<ul style="list-style-type: none"><li>To impart the students to know the procedure for assessment and</li><li>types of assessment.</li><li>To enable the students to understand the computation of tax liability of individuals</li></ul>
Core -19	<b>APPLICATION OF TALLY IN ACCOUNTING</b>	<ul style="list-style-type: none"><li>To impart practical knowledge regarding the concepts of Financial Accounting.</li><li>To get knowledge on accounting software.</li></ul>
Core -21	<b>APPLICATION OF TALLY IN ACCOUNTING - PRACTICAL</b>	<ul style="list-style-type: none"><li>To impart practical knowledge regarding the concepts of Financial Accounting.</li></ul>

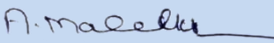
### SEMESTER-I BBA

Major Paper	<b>Principles of Management</b>	<ul style="list-style-type: none"><li>Describe nature, scope, role, levels, functions and approaches of management</li><li>Apply planning and decision making in management</li></ul>
Major Paper	<b>Accounting for Managers - I</b>	<ul style="list-style-type: none"><li>Prepare Journal, ledger, trial balance and cash book</li><li>Classify errors and making rectification entries.</li></ul>
Elective	<b>Managerial Economics</b>	<ul style="list-style-type: none"><li>Analyze &amp; apply the various managerial economics concepts individual &amp; business decisions.</li><li>Explain demand concepts underlying theories and identify demand forecasting techniques.</li></ul>
Major Paper	<b>Managerial Communication</b>	<ul style="list-style-type: none"><li>Understand communication process and its barriers</li><li>Develop business letters in different scenarios.</li></ul>
NME	<b>Basics of Event Management</b>	<ul style="list-style-type: none"><li>To understand basics of event management</li><li>To design events</li></ul>

### SEMESTER-II

  
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Major Paper	Marketing Management	<ul style="list-style-type: none"> <li>To list and identify the core concept of marketing and its mix.</li> <li>To sketch the market segmentation, nature of product, PLC.</li> </ul>
Major Paper	Accounting for Managers - II	<ul style="list-style-type: none"> <li>Interpret cost sheet &amp; write comments</li> <li>Compare cost sheet &amp; write comments</li> </ul>
Elective	International Business	<ul style="list-style-type: none"> <li>Discuss the modes of entry to International Business.</li> <li>Explain international trade theories</li> </ul>
NME	Managerial skill development	<ul style="list-style-type: none"> <li>Identify the personal qualities that are needed to sustain in the world of work.</li> <li>Explore more advanced management skills such as conflict resolution, empowerment, working with teams and creating a positive environment for change.</li> </ul>
SEC	Business Etiquette and Corporate grooming	<ul style="list-style-type: none"> <li>Describe basic concepts of business etiquette and corporate grooming.</li> <li>Outline the etiquette and grooming standard followed in business environment and the significance of communication</li> </ul>

### SEMESTER-I Mathematics

Major paper	Algebra & Trigonometry	<ul style="list-style-type: none"> <li>Classify and solve reciprocal equations</li> <li>Find the sum of binomial, exponential and logarithmic series</li> </ul>
Major paper	Differential Calculus	<ul style="list-style-type: none"> <li>Find the nth derivative, form equations involving derivatives and apply Leibnitz formula</li> <li>Find the partial derivative and total derivative coefficient.</li> </ul>
Allied	Allied Mathematics-I	<ul style="list-style-type: none"> <li>Classify and solve reciprocal equations</li> <li>Find transformation of an equation and Horner's method, Newton's method for approximate solution to equation.</li> </ul>
SEC	Mathematics for Competitive Examination-I	<ul style="list-style-type: none"> <li>Apply the right approach and easiest technique to tackle the problems in Mathematics</li> <li>Get rid of fear of solving quantitative aptitude section</li> </ul>

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FC	Bridge Mathematics	<ul style="list-style-type: none"><li>Prove the binomical theorem and apply it to find the expansions of any <math>(x+y)^n</math> and also, solve the related problems.</li><li>Find the various sequences and series and solve the problem related to them, Explain the principle of counting.</li></ul>
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## SEMESTER-II

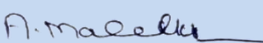
Major paper	Analytical Geometry- 2D&3D	<ul style="list-style-type: none"><li>Find pole, polar for conics, diameters, conjugate diameters for ellipse and hyperbola.</li><li>Find the polar equations of straight line and circle, equations of chord, tangent and normal and find the asymptotes of hyperbola</li></ul>
Major paper	Integral Calculus	<ul style="list-style-type: none"><li>Determine the integrals of algebraic, trigonometric and logarithmic functions and to find the reduction formulae.</li><li>Evaluate double and triple integrals and problems using change of order of integration</li></ul>
Allied	Allied Mathematics-II	<ul style="list-style-type: none"><li>Solve the differential equations using p,x,y and partial differential equations using Lagrange's Equation- Standard form <math>Pp+Qq=R</math>.</li><li>Solved differential equation using Laplace Transform</li></ul>
SEC	Mathematics for Competitive Examination-II	<ul style="list-style-type: none"><li>Learn and apply short tricks, tips and logical methods on difficult problems.</li><li>Solve problem in real life situation.</li></ul>

## SEMESTER-III

Core-3	Sequences and Series	<ul style="list-style-type: none"><li>To lay a good foundation of Classical Analysis</li><li>To study the behavior of Sequences and series</li></ul>
Skill Based Core	Trigonometry and Vector Calculus	<ul style="list-style-type: none"><li>To enrich with the knowledge of trigonometric functions</li><li>To have a good foundation for vector calculus.</li></ul>
Non Major Elective	Basics of Statistics	<ul style="list-style-type: none"><li>To provide basic knowledge of correlation and regression.</li><li>To develop a working knowledge to handle practical problem.</li></ul>

  
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Non-Major Elective	<b>Mathematics for Competitive Examinations-I</b>	<ul style="list-style-type: none"><li>To learn the problems solving techniques for aptitude problems.</li><li>To enable the students prepare themselves for various competitive examinations.</li></ul>
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## SEMESTER-IV

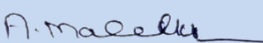
Core-4	<b>Modern Algebra</b>	<ul style="list-style-type: none"><li>To introduce the concept of Groups, Rings and Ideals.</li><li>To study the concept of Homomorphism and Isomorphism.</li></ul>
Skill Based Core	<b>Laplace Transforms and Fourier Series</b>	<ul style="list-style-type: none"><li>To know the concept of Laplace Transform</li><li>To study the concept of Fourier Series</li></ul>
Non-Major Elective	<b>Essentials of Statistics</b>	<ul style="list-style-type: none"><li>To introduce measures of central tendency to other major students.</li><li>To study index numbers and simple problems.</li></ul>
Non-Major Elective	<b>Mathematics for Competitive Examinations-II</b>	<ul style="list-style-type: none"><li>To learn the problems solving techniques for aptitude problems.</li><li>To enable the students prepare themselves for various competitive examinations.</li></ul>

## SEMESTER-V

Core -5	<b>Real Analysis</b>	<ul style="list-style-type: none"><li>To give a comprehensive idea about the continuity, connectedness and compactness</li><li>To have a good foundation in the concepts of abstract mathematics.</li></ul>
Core-6	<b>Mechanics</b>	<ul style="list-style-type: none"><li>To understand the basic concept and principles of statics and dynamics.</li><li>To introduce the postulates governing static and dynamic system.</li></ul>
Core-7	<b>Transforms and Their Applications</b>	<ul style="list-style-type: none"><li>To understand the basic concept and principles of statics and dynamics.</li><li>To introduce the postulates governing static and dynamic system.</li></ul>

  
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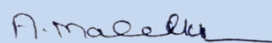
Core Elective I	<b>Fuzzy Sets and Logic</b>	<ul style="list-style-type: none"><li>To explain the fundamental concepts of fuzzy set.</li><li>To demonstrate the concept of <math>\alpha</math>-cuts and its properties.</li></ul>
Core Elective I	<b>Discrete Mathematics</b>	<ul style="list-style-type: none"><li>To introduce the concept of lattice.</li><li>To teach various types of lattices.</li></ul>
Core Elective-I	<b>Astronomy</b>	<ul style="list-style-type: none"><li>To enable the students to understand the Astronomical aspects and about the laws governing the planet movements.</li><li>To achieve a good understanding of physical laws and principles.</li></ul>
Project	<b>Mathematics for competitive Examinations and Project</b>	<ul style="list-style-type: none"><li>To demonstrate an understanding of the foundations and history of Mathematics</li><li>To perform computations in higher mathematics</li></ul>

## SEMESTER-VI

Core - 8	<b>Linear Algebra</b>	<ul style="list-style-type: none"><li>To learn about vector spaces and matrices and theorems.</li><li>To cope-up with the homeomorphisms through fundamental theorem.</li></ul>
Core -9	<b>Complex Analysis</b>	<ul style="list-style-type: none"><li>To assist the students in learning fundamental ideas and theorems about complex plane.</li><li>To learn about bilinear transformation</li></ul>
Core -10	<b>Number Theory</b>	<ul style="list-style-type: none"><li>To understand the basic knowledge of numbers and its types.</li><li>To explain congruence and its properties</li></ul>
Core-11	<b>Graph Theory</b>	<ul style="list-style-type: none"><li>To learn the basic concepts in Graph theory such as trees.</li><li>To familiarize the concepts on planar, Euler and Hamiltonian graphs.</li></ul>

  
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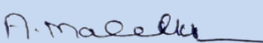
Core Elective II	<b>Applications of Differential Equations</b>	<ul style="list-style-type: none"><li>To study the concept of measures of dispersion and measures of central tendencies.</li><li>To develop the concept of Probability distribution</li></ul>
Core Elective II	<b>Operations Research</b>	<ul style="list-style-type: none"><li>To introduce the various techniques of Operation Research.</li><li>To solve problems in Business management.</li></ul>

## SEMESTER-I M.Sc Mathematics

Core	<b>Algebraic Structures</b>	<ul style="list-style-type: none"><li>Recall basic counting principle, define classic equations to solve problems, explain theorems and apply the theorem to find number of sylow sub groups</li></ul>
Core	<b>Real Analysis-I</b>	<ul style="list-style-type: none"><li>Analyze and evaluate functions of bounded variation and Rectifiable Curves.</li><li>Describe the concept of Riemann-Steieltjes integral and its properties.</li></ul>
Core	<b>Ordinary differential Equations</b>	<ul style="list-style-type: none"><li>Establish the qualitative behavior of solutions of systems of differential equations.</li><li>Recognize the physical phenomena modeled by differential equations and dynamical systems.</li></ul>
Elective	<b>Graph Theory and Applications</b>	<ul style="list-style-type: none"><li>Understand the basic concept of graphs, directed graphs and present the graph by matrices.</li><li>Solve the problem involving edge and vertex connectivity, planarity and crossing number and to determine the Eulerian and Hamiltonian graphs.</li></ul>
Elective	<b>Fuzzy sets and their Applications</b>	<ul style="list-style-type: none"><li>Learn crisp and fuzzy set theory</li><li>Able to know the relation of the fuzzy set</li></ul>

  
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## SEMESTER-I

### Physics

Major Paper	<b>Properties of Matter and Acoustics</b>	<ul style="list-style-type: none"><li>Relate elastic behavior in terms of three moduli of elasticity and working of torsion pendulum.</li><li>Able to appreciate concept of bending of beams and analyze the expression, quantify and understand nature of materials.</li></ul>
Major Practical	<b>Properties of matter</b>	<ul style="list-style-type: none"><li>Understand the elastic behavior in terms of Young's and rigidity moduli of elasticity</li><li>Able to understand the bending of beams and understand nature of materials.</li></ul>
Allied	<b>Allied Physics-I</b>	<ul style="list-style-type: none"><li>Explain types of motion and extend their knowledge in the study of various dynamic motions analyze and demonstrate mathematically. Relate theory with practical application in medical field.</li><li>Explain their knowledge of understanding about materials and their behaviours and apply it to various situation in laboratory and real life. Connect droplet theory with corona transmission.</li></ul>
Allied practical	<b>Allied Practical-I</b>	<ul style="list-style-type: none"><li>Understand the elastic behavior in terms of Young's and rigidity moduli of elasticity.</li><li>Able to understand the bending of beams and understand nature of materials.</li></ul>
Elective	<b>Physics for Everyday Life</b>	<ul style="list-style-type: none"><li>Understand the concept of mechanical objects.</li><li>Able to understand the optical instruments.</li></ul>
FC	<b>Introductory Physics</b>	<ul style="list-style-type: none"><li>Apply concept of vectors to understand concepts of Physics and solve problems.</li><li>Appreciate different forces present in Nature while learning about phenomena related to three different forces.</li></ul>

## SEMESTER-II

Major Paper	<b>Heat, Thermodynamics and statistical Physics</b>	<ul style="list-style-type: none"><li>Derive the efficiency of Carnot's engine. Discuss the implications of the laws of thermodynamics in diesel and petrol engines.</li><li>Able to analyze performance of thermodynamics systems viz efficiency by problems. Gets an insight into thermodynamic properties like enthalpy, entropy.</li></ul>
Major Practical	<b>Heat, Oscillations, Waves and Sound</b>	<ul style="list-style-type: none"><li>Understand the thermal conductivity of materials</li><li>Able to understand the specific heat capacity of solids and liquids.</li></ul>

  
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Allied	<b>Allied Physics-II</b>	<ul style="list-style-type: none"> <li>Explain the concepts of interference diffraction using principles of superposition of waves patterns.</li> <li>Outline the basic foundation of different atom models and various experiments establishing quantum concepts, Relate the importance of interpreting improving theoretical model based on observation.</li> </ul>
Allied practical	<b>Allied Practical-II</b>	<ul style="list-style-type: none"> <li>Understand the thermal conductivity of materials</li> <li>Able to understand the characterization of diode, circuits.</li> </ul>
Elective	<b>Physics of Music</b>	<ul style="list-style-type: none"> <li>Understand the Physics concepts of music</li> <li>Able to understand the vibrating systems.</li> </ul>

## SEMESTER-III

Core 3	<b>Electricity</b>	<ul style="list-style-type: none"> <li>To provide a basic knowledge about electricity and various methods of analyzing electric circuits using DC and AC sources.</li> <li>To develop ideas about electricity from school level to a graduate level</li> </ul>
Skillbased1	<b>Maintenance of Electrical and Electronic Equipments</b>	<ul style="list-style-type: none"> <li>To enable the students to understand the operations and safe handling of certain commonly used domestic appliances.</li> <li>To get basic knowledge about electricity and magnetism.</li> </ul>
Allied	<b>Allied Physics-I(forchemistry Students)</b>	<ul style="list-style-type: none"> <li>To understand the elastic behaviours of different materials</li> <li>To understand the concept of surface tension and viscosity</li> </ul>
Non Major Elective	<b>Basic physics-I</b>	<ul style="list-style-type: none"> <li>To acquire knowledge about of Bernoulli's principle</li> <li>To know how to measure heat and temperature.</li> </ul>
Non Major Elective	<b>Applied Physics</b>	<ul style="list-style-type: none"> <li>To acquire knowledge about energy sources.</li> <li>To know about fossil fuels.</li> </ul>
Core Practical 3	<b>Basic ElectricalPracticals</b>	<ul style="list-style-type: none"> <li>To get practical knowledge on physical concepts through experiments.</li> <li>Gain knowledge about magnetic and electrical experiments.</li> </ul>
Allied Practical 1	<b>Allied Physics Practical-I(For Chemistry Students)</b>	<ul style="list-style-type: none"> <li>Understand the application side of the experiments</li> <li>Use of basic laws to study the spectral properties and optical propertiesof the given prism</li> </ul>

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## SEMESTER-IV

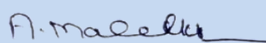
core 4	<b>Electromagnetism</b>	<ul style="list-style-type: none"><li>To understand the magnetic effects of electric currents and the basics of electromagnetic waves.</li><li>To impart knowledge about inductance of a coil, solenoid and toroid</li></ul>
Skill based 2	<b>Testing and Practical use of Electronic Components</b>	<ul style="list-style-type: none"><li>To provide an idea about handling of commonly used electronic equipments.</li><li>To understand about oscilloscopes.</li><li>To know how to measure voltage, current and resistance using multimeter.</li></ul>
Allied	<b>Allied Physics-II(for chemistry)</b>	<ul style="list-style-type: none"><li>To acquire knowledge about electric field, magnetic field and the relation between those two.</li><li>To acquire knowledge on static properties of nuclei and nuclear models</li></ul>
Non-Major Elective	<b>Basic physics-II</b>	<ul style="list-style-type: none"><li>To gain basic knowledge about structure and properties of nucleus.</li><li>To understand the properties of alpha, beta and gamma rays</li><li>To get idea about different types of lasers</li></ul>
Non Major Elective	<b>Space Physics</b>	<ul style="list-style-type: none"><li>To acquire knowledge about of Constellations.</li><li>To know about comets, meteors and asteroids.</li></ul>
Core Practical 4	<b>Magnetic and Electric Practicals</b>	<ul style="list-style-type: none"><li>To measure the electro motive force (emf) and internal resistance of adry cell.</li><li>To determine the resistance of a ballistic coil galvanometer by half deflection method</li></ul>
Allied Practical 2	<b>Allied Practical-II(For Chemistry Students)</b>	<ul style="list-style-type: none"><li>Students can easily understand how to calibrate voltmeter and ammeter.</li><li>To understand the concept of comparison between basic logic gates-AND,OR, NOT.</li></ul>

## SEMESTER-V

Core 5	<b>Analog Electronics</b>	<ul style="list-style-type: none"><li>To know about the ore muse din Electronics</li><li>To understand about diode and transistor circuits and the basics of operational amplifier.</li><li>To gain knowledge about rectifier circuits and its applications</li></ul>
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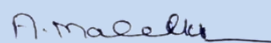
Core 6	<b>Programming in C++</b>	<ul style="list-style-type: none"><li>To provide knowledge about the basics of Computer programming inC++</li><li>To solve the problems using C++ programme</li></ul>
Core 7	<b>Atomic Physics</b>	<ul style="list-style-type: none"><li>To provide an introductory account about the atomic structure and the impact of X-rays.</li><li>To give a broad knowledge about important characteristics of atoms,</li><li>molecules and their interaction with electromagnetic fields</li></ul>
Core Elective	<b>Numerical Methods</b>	<ul style="list-style-type: none"><li>To analyze the error and accuracy of common numerical methods and to rectify it.</li><li>To know how to use approximation methods to find</li><li>solution to problems which do not have exact solution</li></ul>
Core Elective	<b>Fundamentals of Spectroscopy</b>	<ul style="list-style-type: none"><li>To impart the knowledge of atomic spectra, molecular spectra and their instrumentations.</li><li>To gain knowledge to identify materials with the help of various spectra</li></ul>
Core Practical 5	<b>Electrical and Optics Practicals</b>	<ul style="list-style-type: none"><li>To get well developed knowledge about Spectrometer experiments</li><li>To analyze the effects of refractive index of a medium using optical instruments</li></ul>
Core Practical 6	<b>Analog and Digital Electronics Practicals</b>	<ul style="list-style-type: none"><li>To learn physical concepts through experiments</li><li>The students can acquire the knowledge about the characteristics of Transistor</li></ul>
Core 8	<b>Physics for Competitive Examination and Project</b>	<ul style="list-style-type: none"><li>Enable to get through in various competitive examinations like governments service, entrance examinations for higher studies.</li></ul>

## SEMESTER-VI

Core 9	<b>Digital Electronics</b>	<ul style="list-style-type: none"><li>To know about decimal, binary, octal, and hexa decimal number systems and their conversions.</li><li>To provide knowledge about Boolean algebra and logic gates.</li></ul>
Core 10	<b>Quantum Mechanics</b>	<ul style="list-style-type: none"><li>Learn the Failure of classical physics</li><li>Understand the distribution of energy in the spectrum of black body</li></ul>

  
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Core 11	<b>Nuclear Physics</b>	<ul style="list-style-type: none"> <li>To know about the nucleus and its properties</li> <li>To understand the concept of nuclear forces and its theories</li> </ul>
Core 12	<b>Solid State Physics</b>	<ul style="list-style-type: none"> <li>Explain crystal systems, diffraction and reciprocal space</li> <li>Define Atomic packing, Crystal, Lattice, Unit cell and Translation vectors</li> </ul>
Core 13	<b>Energy Physics</b>	<ul style="list-style-type: none"> <li>To know about the concept of various forms of renewable energy and nonrenewable energy</li> <li>To able to perform an initial design of a renewable energy system</li> </ul>
Core Practical 7	<b>Electrical &amp; Electronics Practicals</b>	<ul style="list-style-type: none"> <li>The students can know that Anderson bridge is used to measure an unknown inductance in terms of known capacitance.</li> </ul>
Core Practical 8	<b>Computer Programming in C++</b>	<ul style="list-style-type: none"> <li>The students can calculate the period of pendulum, to learn the Physics formulas apply on the C++ program</li> </ul>

## SEMESTER-I M.Sc (Physics)

Core	<b>Mathematical Physics</b>	<ul style="list-style-type: none"> <li>Understand use of bra-ket vector notation and explain the meaning of complete orthonormal set of basis vectors, and transformations and be able to apply them.</li> <li>Able to understand analysis functions, do complex integrations, by applying Cauchy Integral formula. Able to compute many real integrals and infinite sums via complex integration.</li> </ul>
Core	<b>Classical Mechanics and Relativity</b>	<ul style="list-style-type: none"> <li>Understand the fundamentals of classical mechanics.</li> <li>Apply the principles of Lagrangian and Hamiltonian mechanics to solve the equation of motion of physical systems.</li> </ul>
Core Practical	<b>Linear and digital ICs and practical I</b>	<ul style="list-style-type: none"> <li>Learn about basic concepts for the circuit configuration for the design of linear integrated circuits and develops skill to solve problems.</li> <li>Develop skills to design linear and non-linear applications circuits using Op-Amp and design the active filters circuits.</li> </ul>
Elective	<b>Physics of Nano Science and Technology</b>	<ul style="list-style-type: none"> <li>Understand the basic of nano science and explore the different types of nano materials and should comprehend the surface effects of the nanomaterials.</li> <li>Explore various physical, mechanical, optical, electrical and magnetic properties nano materials.</li> </ul>

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Elective	<b>Advances Optics</b>	<ul style="list-style-type: none"><li>Discuss the transverse character of light waves and different polarization phenomenon.</li><li>Discriminate all the fundamental process involved in laser device and to analyze the design and operation of the device.</li></ul>
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## SEMESTER-II

Core	<b>Quantum Mechanics-I</b>	<ul style="list-style-type: none"><li>Demonstrates a clear understanding of the basic postulates of quantum mechanics which serve to formalize the rules of quantum Mechanics.</li><li>Is able to apply and analyze the schrodinger equation to solve one dimensional problems and three dimensional problems.</li></ul>
Core	<b>Statistical Mechanics</b>	<ul style="list-style-type: none"><li>To examine and elaborate the effect of changes in thermodynamic quantities on the states of matter during phase transition.</li><li>To analyse the macroscopic properties such as pressure, volume, temperature, specific heat, elastic moduli etc.</li></ul>
Core	<b>Condensed Matter Physics</b>	<ul style="list-style-type: none"><li>Student will be able to list out the crystal systems, symmetries allowed in a system and also the diffraction techniques to find the crystal structure</li><li>Student will be able to comprehend the heat conduction in solids.</li></ul>
Core Practical	<b>Electronics and Nano-Electronics Practical-II</b>	<ul style="list-style-type: none"><li>Understand the strength of material using Young's modulus.</li><li>Acquire knowledge of thermal behavior of the materials.</li></ul>
Elective	<b>Microprocessor 8085 &amp; Micro Controller 8051</b>	<ul style="list-style-type: none"><li>Gain knowledge of architecture and working of 8085 microprocessor.</li><li>Get knowledge of architecture and working of 8051 Microcontroller.</li></ul>
Elective	<b>Bio Physics</b>	<ul style="list-style-type: none"><li>Understand the structural organization and function of living cells and should be able to apply the cell signaling mechanism and its electrical activities.</li></ul>

## SEMESTER-III

<b>Core 11</b>	<b>Quantum Mechanics I</b>	<ul style="list-style-type: none"><li>To get knowledge about wave functions and Schrodinger equations.</li><li>To understand matrix mechanics and Heisenberg uncertainty principle.</li></ul>
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Core 12	Electromagnetic Theory	<ul style="list-style-type: none"> <li>To understand propagation of electromagnetic waves through various media including waveguides</li> </ul>
Core 13	Statistical Mechanics	<ul style="list-style-type: none"> <li>To study the basic concepts involved in statistical mechanics, classical</li> <li>and quantum statistics.</li> <li>To acquire basic understanding of applications of quantum statistics, phase transition in certain physical problems.</li> </ul>
Core 14	Research Methodology	<ul style="list-style-type: none"> <li>To understand the basic concepts of literature collection, activities involved in their search problem, method of writing the thesis.</li> </ul>
Core 15	Project	<ul style="list-style-type: none"> <li>The students can apply the theoretical knowledge of principles and concepts of Physics to practical problems using mathematical techniques and interpret mathematical models of physical behavior.</li> </ul>
Core Practical 5	Advanced Magnetic and Optics Lab	<ul style="list-style-type: none"> <li>To provide hands on experience in understanding the advanced physics experiments Gouy's method, elliptical fringes, Hall probe into Gaussmeter, and Photo transistor characteristics.</li> <li>To study the basic skills and knowledge about the experiments.</li> </ul>

## SEMESTER-IV

Core 16	Quantum mechanics II	<ul style="list-style-type: none"> <li>To provide the knowledge on the theory of angular momentum.</li> <li>To study various approximation methods, and theory of scattering</li> </ul>
Core 17	Spectroscopic Techniques	<ul style="list-style-type: none"> <li>To give detailed knowledge about various types of spectroscopy.</li> <li>To determine the structure of different chemical compounds by studying the setypes.</li> </ul>
Core 18	Nuclear and Particle Physics	<ul style="list-style-type: none"> <li>To get knowledge about the elementary particles and nuclear structure.</li> <li>To study about various nuclear reactions. To know about elementary particles</li> </ul>
Core Elective 1	Astro Physics	<ul style="list-style-type: none"> <li>To renew the concepts of coordinate system and stellar spectra.</li> <li>To get the clear understanding of astronomical instruments.</li> </ul>
Core Elective 1	Renewable Energy Sources	<ul style="list-style-type: none"> <li>To understand a brief knowledge about the types of various non-conventional energy sources.</li> <li>To study the societal application of these energy sources.</li> </ul>

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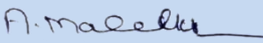
<b>Core Elective 1</b>	<b>Material Science</b>	<ul style="list-style-type: none"><li>To learn about mechanical properties of materials</li><li>To know the concept of phase diagram</li></ul>
<b>Core Practical 6</b>	<b>Advanced Thermal and Electrical Lab</b>	<ul style="list-style-type: none"><li>Dehands on experience in understanding the advanced physics experiments Hall effect, Hysteresis, Ultrasonic diffraction etc.,</li><li>To understand basic skills and knowledge about the experiments.</li><li>To study the theory behind the experiments.</li></ul>
<b>Core Practical 7</b>	<b>Microprocessor and C++ Programming Lab</b>	<ul style="list-style-type: none"><li>To Provide hands on experience on microprocessor experiments.</li><li>To learn the knowledge of arithmetic operation, data manipulation, interfacing experiments ,ADC&amp;DAC conversion etc...</li></ul>

## SEMESTER-I Chemistry

<b>Major Paper</b>	<b>General Chemistry</b>	<ul style="list-style-type: none"><li>Explain the atomic structure, wave particle duality of matter, periodic properties bonding and properties of compounds.</li><li>Classify the elements in the periodic table, types of bonds, reaction intermediates electronic effects in organic compounds, types of reagents.</li></ul>
<b>Major Paper</b>	<b>Quantitative Inorganic Estimation (titrimetry) and Inorganic Preparation</b>	<ul style="list-style-type: none"><li>Explain the basic principles involved in titrimetric analysis and inorganic preparations.</li><li>Compare the methodologies of different titrimetric analysis.</li></ul>
<b>SEC-NME</b>	<b>Food Chemistry</b>	<ul style="list-style-type: none"><li>Learn about Food adulteration- contamination of Wheat, Rice, Milk, Butter.</li><li>Get an awareness about food poisons like natural poisons (alkaloids- nephrotoxin) pesticides, DDT, BHC, Malathion</li></ul>
<b>SEC-NME</b>	<b>Role of Chemistry in Daily Life</b>	<ul style="list-style-type: none"><li>Learn about the chemicals used in everyday life as well as air pollution and water pollution.</li><li>Get knowledge on building materials cement, ceramics, glass and plastics, polythene, PVC Bakelite, polyesters.</li></ul>

  
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## SEMESTER-II

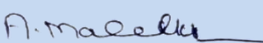
<b>Core</b>	<b>General Chemistry-II</b>	<ul style="list-style-type: none"><li>Explain the concept of acids, bases and ionic equilibria; periodic properties of s and p block elements, and properties of aliphatic and aromatic hydrocarbons.</li><li>Discuss the periodic properties of s and p-block elements, reactions of aliphatic and aromatic hydrocarbons and strength of acids.</li></ul>
<b>NME</b>	<b>Dairy Chemistry</b>	<ul style="list-style-type: none"><li>Understand about general composition of milk- constituents and its physical properties.</li><li>Acquire knowledge about pasteurization of milk and various types of pasteurization- Bottle, Batch and HTST Ultra High Temperature Pasteurization.</li></ul>
<b>SEC I/II</b>	<b>Cosmetics and Personal Grooming</b>	<ul style="list-style-type: none"><li>Know about the composition of various cosmetics products.</li><li>Understands chemical aspects and applications of hair care and dental care and skincare products.</li></ul>

## SEMESTER-III

<b>Core Paper- 3</b>	<b>Organic Functional Groups</b>	<ul style="list-style-type: none"><li>To learn about aliphatic and aromatic aldehyde and ketone.</li><li>To know the chemical reactions of mono, di and unsaturated carboxylic acids.</li></ul>
<b>Core Practical- 3</b>	<b>Inorganic Qualitative Analysis</b>	<ul style="list-style-type: none"><li>To understand the systematic analysis of inorganic salt mixture.</li><li>To create an awareness on eco-friendly approach in salt analysis</li></ul>
<b>Allied – 1</b>	<b>Basic Concepts in Chemistry</b>	<ul style="list-style-type: none"><li>To learn about atomic structure and bonding.</li><li>To learn the principles of reactions of organic compounds.</li></ul>
<b>Allied Practical – 1</b>	<b>Inorganic Quantitative Analysis</b>	<ul style="list-style-type: none"><li>To enable the students to acquire the quantitative skills in volumetric analysis</li></ul>
<b>Skill Based Core(SBC) -1</b>	<b>Agro Chemistry</b>	<ul style="list-style-type: none"><li>To learn about fertilizers</li><li>To learn about pesticides</li></ul>
<b>Non Major Elective-1</b>	<b>Water Technology</b>	<ul style="list-style-type: none"><li>To acquire the knowledge of Water Pollution</li><li>To understand water quality parameters</li><li>To know water purification techniques</li></ul>
<b>Non Major Elective-1</b>	<b>Basics of Food Science</b>	<ul style="list-style-type: none"><li>To acquire the basic knowledge of food chemistry and nutrition contents in food</li><li>To gain knowledge in food Additives</li></ul>

  
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## SEMESTER-IV

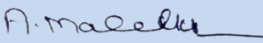
Core Paper –4	Thermodynamics	<ul style="list-style-type: none"><li>To learn about basic concepts and I law of thermo dynamics</li><li>To know the need for II law of the rmodynamics</li></ul>
Core Practical-4	Inorganic Preparation and Determination of Physical Constants	<ul style="list-style-type: none"><li>To train the students thoroughly in preparing the in organic complexes.</li><li>To enable the students to determine the physical constants.</li></ul>
Allied-2	Advanced Topics in Chemistry	<ul style="list-style-type: none"><li>To learn the basic concepts of polymer chemistry.</li><li>To know the importance of chemistry in industries.</li></ul>
Allied Practical-2	Inorganic Qualitative Analysis	<ul style="list-style-type: none"><li>To enable the student to understand various procedure in salt analysis.</li><li>To create an awareness on eco-friendly approach in salt analysis</li></ul>
Skill Based Core(SBC)-2	Human Health Chemistry	<ul style="list-style-type: none"><li>To have knowledge of first aid and the important rules.</li><li>To acquire knowledge about the chemicals used in medicine</li></ul>
Non Major Elective-2	Applied Chemistry	<ul style="list-style-type: none"><li>To study about Soaps, Detergents</li><li>To know the importance of fertilizer</li><li>To know the basic concept of polymer chemistry.</li></ul>
Non Major Elective-2	Dairy Chemistry	<ul style="list-style-type: none"><li>To learn the composition of milk and the factors affecting its composition.</li><li>To understand the processing of milk</li><li>To know the chemistry of cream and butter</li></ul>

## SEMESTER-V

Core Paper – 5	Metallurgy and Group Elements	<ul style="list-style-type: none"><li>To learn the chemistry of s, p, d &amp; f- Block elements</li><li>To learn the preparative methods of some compounds</li><li>To know the basic principles of metallurgy</li></ul>
Core Paper – 6	Stereochemistry and Heterocyclic Compounds	<ul style="list-style-type: none"><li>To know about the various types of dyes and heteronucle a hydrocarbons.</li><li>To understand the organic reaction mechanisms.</li><li>To understand the stereochemistry of organic compounds</li></ul>

  
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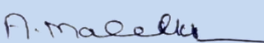
Core Paper- 7	Electrochemistry andPhase Equilibria	<ul style="list-style-type: none"><li>To understand the basic concept of Electro chemistry</li><li>To know the working principle of various electrode.</li></ul>
Core Elective-1	Polymer Chemistry	<ul style="list-style-type: none"><li>To know the concept of polymerization and types of polymers</li><li>To understand the characteristics of polymers</li></ul>
Core Elective-1	Bioinorganic Chemistry	<ul style="list-style-type: none"><li>To study the significance of trace elements in biological system.</li><li>To study the biological role of electron transfer proteins</li></ul>
Core Elective-1	Chemical Biology and Biophysical Chemistry	<ul style="list-style-type: none"><li>To gain knowledge about Carbohydrates</li><li>To understand and the physical properties of Amino acids</li><li>To study the reactions of Lipids</li></ul>
Skill Based Elective	Chemistry for Competitive Examinations and Project	<ul style="list-style-type: none"><li>To study the periodic properties, hybridization and geometry of molecules</li><li>To study the basic principles and the methods of preparation</li><li>properties and uses of organic compounds.</li></ul>
Core Practical -5	Organic Analysis andOrganic Estimation	<ul style="list-style-type: none"><li>To enable the students to understand the various procedures in organic analysis and organic preparation</li><li>To create an awareness on micro scale experiments in organic chemistry practical</li></ul>

## SEMESTER-VI

Core Paper- 8	Bioinorganic Chemistry and Coordination Chemistry	<ul style="list-style-type: none"><li>To study the theories in coordination chemistry.</li><li>To acquire basic knowledge about splitting of orbital</li></ul>
Core Paper-9	Organic Spectroscopy and Natural Products	<ul style="list-style-type: none"><li>To study the classification and structure of carbohydrates.</li><li>To study the structural elucidation and biological properties of alkaloids</li></ul>
Core Paper- 10	Kinetics, Spectroscopy and Group Theory	<ul style="list-style-type: none"><li>To study the kinetics of reactions.</li><li>To understand the basic concept of Molecular Spectroscopy</li></ul>
Core Elective-2	Analytical Chemistry	<ul style="list-style-type: none"><li>Analyze pH, conductivity, acidity, alkalinity and hardness of water.</li><li>Determine the BOD and COD of water.</li></ul>

  
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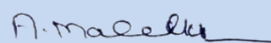
Core Elective-2	Pharmaceutical Chemistry	<ul style="list-style-type: none"><li>On the completion of the course the student will be able to</li><li>Understand the importance of pharmaceutical chemistry.</li></ul>
Core Elective-1	Industrial Chemistry	<ul style="list-style-type: none"><li>On the completion of the course the student will be able to</li><li>Do Basic chemical calculations</li><li>Get Knowledge about Material balance without chemical reaction</li></ul>
Core Elective-3	Nano Chemistry	<ul style="list-style-type: none"><li>Understand the basic concept of nano chemistry</li><li>Get knowledge about different types of nano materials</li></ul>
Core Elective-3	Green Chemistry	<ul style="list-style-type: none"><li>To introduce the basics of Green Chemistry</li><li>To make the students familiar with the usage of green solvents and greencatalysts in chemical reactions.</li></ul>
Core Elective-3	Chromatography	<ul style="list-style-type: none"><li>Understand the basic concept of Chromatography</li><li>Get knowledge about Choice of Solvent Systems.</li></ul>
Core Practical - 6	Gravimetric Estimation and Organic Preparations	<ul style="list-style-type: none"><li>To enable the students to understand the various technique in gravimetric estimations</li><li>To make the students thorough in organic preparations</li></ul>
Core Practical-7	Physical Chemistry Experiments	<ul style="list-style-type: none"><li>To enable the students to understand the principles of physical chemistry experiments</li></ul>

## SEMESTER-I Computer Science

Core	Python Programming	<ul style="list-style-type: none"><li>Learn the basics of python, Do simple programs on python, Learn how to use an array.</li><li>Develop program using selection statement, Work with Looping and jump statements, Do programs on Loops and jump statements.</li></ul>
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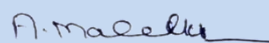
Core Practical	Python Programming Lab	<ul style="list-style-type: none"><li>Demonstrate the understanding of syntax and semantics of PYTHON language.</li><li>Identify the problem and solving using PYTHON programming techniques.</li></ul>
Elective	Digital Logic Fundamentals	<ul style="list-style-type: none"><li>Learn Boolean algebra</li><li>Know arithmetic operations</li><li>Understand and implement Boolean algebra.</li></ul>
Elective	Discrete mathematics-I	<ul style="list-style-type: none"><li>Recognize valid, logical mathematical arguments and construct valid arguments/ proofs.</li><li>Simply complex mathematical scenarios using logical thinking and problem solving skills.</li></ul>
SEC	Fundamentals of Information Technology	<ul style="list-style-type: none"><li>On completion of this course, students will</li><li>Learn the basics of computer, Construct the structure of the required things in computer, learn how to use it.</li></ul>
FC	Problem Solving Techniques	<ul style="list-style-type: none"><li>Study the basic knowledge of Computers. Analyze the Programming languages.</li><li>Study the data types and arithmetic operations. Know about the algorithms. Develop program using flow chart and pseudocode.</li></ul>

## SEMESTER-II

Core	Data Structure and Algorithms	<ul style="list-style-type: none"><li>Understand the concept of Dynamic memory management, data types, algorithms, Big O notation.</li></ul>
Core Practical	Data Structure and Algorithms lab	<ul style="list-style-type: none"><li>Understand the concept of Dynamic memory management, data types, algorithms, Big O notation.</li><li>Understand basic data structures such as arrays, linked lists, stacks and queues.</li></ul>
SEC	Graph Theory and its Applications	<ul style="list-style-type: none"><li>Understand the concepts, application and the problem of numbers</li><li>To have basic knowledge and understanding about percentage, profit &amp; loss related processing.</li></ul>

  
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Elective	Discrete mathematics-II	<ul style="list-style-type: none"> <li>Recognize valid, logical mathematical arguments and construct valid arguments/ proofs.</li> <li>Simply complex mathematical scenarios using logical thinking and problem solving skills.</li> </ul>
SEC	Numerical Methods	<ul style="list-style-type: none"> <li>Understand the concepts, application and the problems of numbers</li> <li>To have basic knowledge and understanding about percentage, profit &amp; Loss related processing.</li> </ul>
SEC	Advanced Excel	<ul style="list-style-type: none"> <li>Work with big data tools and its analysis techniques.</li> <li>Analyze data by utilizing clustering and classification algorithms.</li> </ul>
SEC	Quantitative Aptitude	<ul style="list-style-type: none"> <li>Understand the concepts, application and the problems of numbers.</li> <li>To have basic knowledge and understanding about percentage, profit &amp; loss related processing.</li> </ul>

## SEMESTER-III

Core 4	<b>Fundamentals of Computer Architecture</b>	<ul style="list-style-type: none"> <li>To gain knowledge about the architecture of computer</li> <li>To understand the concepts of CPU, ALU Design, I/O Instruction format and different processors.</li> </ul>
Skill Based Core theory	<b>Internet Programming</b>	<ul style="list-style-type: none"> <li>The students can</li> <li>Explain how the client-server model of Internet programming works.</li> <li>compare the advantages and disadvantages of the core Internet protocols.</li> </ul>
: Allied 3	<b>Data Structures</b>	<ul style="list-style-type: none"> <li>The students can</li> <li>develop knowledge of Basic data Structures for Storage and retrieval of Ordered/Unordered data.</li> </ul>
NME	<b>Fundamentals of Programming Design and Internet</b>	<ul style="list-style-type: none"> <li>The student can:</li> <li>realize the use of computer programs.</li> <li>Demonstrate the problem solving skills by developing algorithms to solve in a computer program.</li> </ul>
NME	<b>Programming in C</b>	<ul style="list-style-type: none"> <li>understand the concept of computer programming language.</li> <li>define data types and use them in simple data processing applications.</li> </ul>
Core Practical 3	<b>Java Programming Practicals</b>	<ul style="list-style-type: none"> <li>understand the concept of computer programming language.</li> <li>define data types and use them in simple data processing</li> </ul>

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		applications.
Allied Practical 3	<b>: Data Structure Practicals</b>	<ul style="list-style-type: none"><li>develop knowledge of Basic data Structures for Storage and retrieval of Ordered/Unordered data.</li></ul>

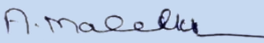
## SEMESTER-IV

Core 6	<b>Visual Basic</b>	<ul style="list-style-type: none"><li>The students can</li><li>code programs and develop application variables using Visual basic</li></ul>
Core – 6	Operating System	<ul style="list-style-type: none"><li>Students can</li><li>Understand the different services of Operating system</li></ul>
Core 7	<b>Programming with PHP</b>	<ul style="list-style-type: none"><li>The students can</li><li>understand the features of PHP</li><li>manipulate and compare variables.</li></ul>
Skill based theory	<b>Information Security</b>	<ul style="list-style-type: none"><li>The students can</li><li>understand the basics of information Security and its breaches</li><li>identify the critical information and the extent it should be secured</li></ul>
NME	<b>: Fundamentals of Computer</b>	<ul style="list-style-type: none"><li>The students can</li><li>have a basic understanding of personal computers and their operations.</li></ul>
NME	<b>: HTML</b>	<ul style="list-style-type: none"><li>The students can</li><li>define HTML and common terminology related to HTML.</li></ul>
Core Practical 4	<b>Visual Basic Practicals</b>	<ul style="list-style-type: none"><li>The students can</li><li>have a basic understanding of personal computers and their operations.</li></ul>
Allied Practicals 4	<b>Programming with PHP Practicals</b>	<ul style="list-style-type: none"><li>understand the features of PHP</li><li>manipulate and compare variables.</li></ul>
: Common	<b>Digital Learning Tools</b>	<ul style="list-style-type: none"><li>Develop deeper insights into the dynamics of E -content creation</li><li>Produce a E -module on some concept on their discipline</li></ul>

## SEMESTER-V

  
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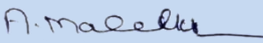
Core 9	<b>Software Engineering</b>	<ul style="list-style-type: none"><li>The students can</li><li>define various software application domains and remember different process model used in software development.</li></ul>
Core Paper -10	<b>Relational Database Management System</b>	<ul style="list-style-type: none"><li>The students can</li><li>identify the importance of the DBMS over file handling system.</li><li>understand different views on the DBMS.</li></ul>
Core 11	<b>ASP.NET Programming</b>	<ul style="list-style-type: none"><li>The students can</li><li>understand .NET Framework and Common Language Runtime (CLR) acquire knowledge about C# and Dot Net languages</li></ul>
Core Elective-1	Cloud Computing	<ul style="list-style-type: none"><li>The students can</li><li>Articulate the History, characteristics, advantages, and Disadvantages of cloud Computing.</li></ul>
Elective	Machine Learning	<ul style="list-style-type: none"><li>The students can define various software application domains and remember different process model used in software development.</li></ul>
Elective 1	<b>Mobile Computing</b>	<ul style="list-style-type: none"><li>The students can</li><li>identify the Components of a wireless Communication System</li><li>explain the principles and theories of mobile computing technologies</li></ul>

## SEMESTER-VI

Core Practical 7	<b>RDBMS Practicals</b>	<ul style="list-style-type: none"><li>The students can</li><li>define various software application domains and remember different process model used in software development.</li></ul>
Core Project 1	<b>Computer Science for Competitive Examination and Project</b>	<ul style="list-style-type: none"><li>The students can</li><li>have a basic understanding of personal computers and their operations.</li></ul>

  
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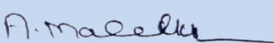
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Core	Microprocessor	<ul style="list-style-type: none"><li>• The Students can</li><li>• Describe architecture of a microprocessor system</li><li>• Understand and classify instruction of 8085 microprocessor</li></ul>
Core 13	<b>Data communication and Networks</b>	<ul style="list-style-type: none"><li>• The students can</li><li>• know the basic steps of network.</li><li>• establish transmission channel.</li></ul>
Core 14	<b>Data Mining</b>	<ul style="list-style-type: none"><li>• The students can</li><li>• demonstrate an understanding of the importance of data mining.</li><li>• effectively identify the sources of data and process it for data mining</li></ul>
Core 15	<b>Computer Graphics and Visualization</b>	<ul style="list-style-type: none"><li>• To develop skills and knowledge about computer graphics and Visualization</li><li>• To understand 2D &amp; 3D Transformations</li></ul>
Elective 2	<b>Software Testing</b>	<ul style="list-style-type: none"><li>• The students can</li><li>• understand the psychology of testing.</li><li>• define the economics of testing.</li></ul>
Core Elective-2	Internet of Things	<ul style="list-style-type: none"><li>• To gain knowledge about the fundamentals of Internet of Things.</li><li>• To get insight of real life applications .</li><li>• To learn about the M2M concepts.</li></ul>
Elective 2	<b>Cryptography and Network Security</b>	<ul style="list-style-type: none"><li>• To understand the fundamentals of cryptography and its applications.</li></ul>
Core Practical 6	<b>Graphics and Multimedia Practicals</b>	<ul style="list-style-type: none"><li>• To gain knowledge about the fundamentals of Internet of Things.</li><li>• To get insight of real life applications .</li></ul>
Core Practicals 5	<b>ASP.NET Practicals</b>	<ul style="list-style-type: none"><li>• To gain knowledge about the fundamentals of Internet of Things.</li><li>• 1. To get insight of real life applications .</li></ul>

### SEMESTER-III

  
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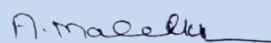


Core 10	<b>Digital ImageProcessing</b>	<ul style="list-style-type: none"><li>To understand basic concepts of image processing</li><li>To use built-in image processing functions in MATLAB and implement various operations on images</li></ul>
Core 11	<b>Research Methodology</b>	<ul style="list-style-type: none"><li>Get a view of how to choose research problem</li><li>Able to design the research and explore the features of data collection,data preparation and aware about report writing</li></ul>
Core 12	<b>Compiler Design</b>	<ul style="list-style-type: none"><li>The Student can</li><li>understand the Structure of a compiler 2.describe the design of a compiler including its phases and components</li></ul>
Core 13	<b>Soft Computing</b>	<ul style="list-style-type: none"><li>The Student can</li><li>understand the basic concepts of neural networks.</li><li>identify the parameters required for ANN.</li></ul>
Elective 2	<b>Data Science and Data analytics</b>	<ul style="list-style-type: none"><li>The Student can</li><li>understand the concept of data science.</li><li>know flow of a data science process.</li></ul>
Elective 2	<b>Artificial NeuralNetworks</b>	<ul style="list-style-type: none"><li>The Student can</li><li>describe the structure and function of the artificial neural network</li></ul>
Elective 2	<b>Xml and Web services</b>	<ul style="list-style-type: none"><li>The Students can</li><li>able to understand the components of XML systems.</li><li>analyze the importance and rules of XML structure and its processing.</li></ul>
Core Practical 5	<b>MATLAB</b>	<ul style="list-style-type: none"><li>To use built-in image processing functions in MATLAB and implement various operations on images</li></ul>
Core Project 1	<b>Project 1</b>	<ul style="list-style-type: none"><li>understand the concept of data science.</li><li>know flow of a data science process.</li></ul>

## SEMESTER-IV

  
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Core Project 2	<b>Project 2</b>	<ul style="list-style-type: none"><li>• understand the concept of data science.</li><li>• know flow of a data science process.</li></ul>
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## SEMESTER-I Information Technology

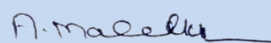
Core	<b>C Programming</b>	<ul style="list-style-type: none"><li>• Remember the program structure of C with its syntax and semantics.</li><li>• Understand the programming principles in C</li></ul>
Core Practical	<b>C Programming</b>	<ul style="list-style-type: none"><li>• Remember and understand how to write programs using the basic syntax and semantics in C</li><li>• Apply the concepts of function, macros, arrays, structures, pointer and files in programs to solve problems</li></ul>
Core	<b>Software Engineering</b>	<ul style="list-style-type: none"><li>• Gain basic knowledge of analysis and design of systems.</li><li>• Ability to apply software engineering principles and techniques.</li></ul>
NME	<b>Office Automation</b>	<ul style="list-style-type: none"><li>• Understand the basics of computer systems and its components.</li><li>• Understand and apply the basic concepts of a word processing package.</li></ul>
FC	<b>Problem Solving Techniques</b>	<ul style="list-style-type: none"><li>• Understanding basic systematic approach to problem solving.</li><li>• Learn the approach and algorithm to solve specific fundamental problems.</li></ul>

## SEMESTER-II

Core	<b>Java Programming</b>	<ul style="list-style-type: none"><li>• Outline the basic terminologies of OOP, Programming language techniques, JDBC and Internet programming concepts.</li><li>• Solve problems using basic constructs, mechanisms, techniques and technologies of Java.</li></ul>
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Core Practical	<b>Java Programming &amp; Data Structure Practical</b>	<ul style="list-style-type: none"> <li>Identify and explain the way of solving the simple problems.</li> <li>Use appropriate software development environment to write, compile and execute object-oriented Java programs.</li> </ul>
Elective	Digital Logic Fundamentals	<ul style="list-style-type: none"> <li>Learn Boolean algebra</li> <li>Know arithmetic operations</li> <li>Understand and implement Boolean algebra.</li> </ul>
Elective	<b>Fuzzy Logic</b>	<ul style="list-style-type: none"> <li>Understand the basic of Fuzzy sets, operation and properties.</li> <li>Apply Cartesian product and composition on Fuzzy relations and use the tolerance and Equivalence relations.</li> </ul>
NME	<b>Fundamentals of Information Technology</b>	<ul style="list-style-type: none"> <li>Learn the basics of computer, Construct the structure of the required things in computer, learn how to use it.</li> <li>Develop organizational structure using for the devices present currently under input or output unit.</li> </ul>
SEC	<b>Quantitative Aptitude</b>	<ul style="list-style-type: none"> <li>Under the concepts, application and the problems of numbers.</li> <li>To have basic knowledge and understanding about percentage, profit &amp; loss related processing.</li> </ul>

## SEMESTER-III

Core -3	<b>Information Technology And HTML</b>	<ul style="list-style-type: none"> <li>Students can</li> <li>Know the basic knowledge of IT industry</li> <li>Learn about input and output devices</li> <li>Understand the hierarchy of Memory system</li> </ul>
Core -4	<b>Data Structures</b>	<ul style="list-style-type: none"> <li>The Students can</li> <li>Understand the basic data structures.</li> <li>Understand the basic search and sort algorithms.</li> </ul>
Allied – 3	<b>Management Information System</b>	<ul style="list-style-type: none"> <li>Students can</li> <li>Understand and apply strategic planning in different functional areas of management</li> <li>Analyze different characteristics of MIS</li> </ul>
SB Practical -1	<b>DeskTop Publishing Practicals</b>	<ul style="list-style-type: none"> <li>To Identify desktop publishing terminology and concepts.</li> <li>To Manipulate text and graphics to create a balanced and focused layout.</li> </ul>

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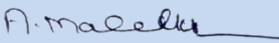
		<ul style="list-style-type: none"><li>To Create flyers, brochures, and multiple page documents.</li></ul>
Non-Major Elective	<b>Essentials of Information Technology</b>	<ul style="list-style-type: none"><li>Students can</li><li>Know about the role of Information Technology in industry</li></ul>
Non-Major Elective	<b>Desk Top Publishing and Multimedia</b>	<ul style="list-style-type: none"><li>To Identify desktop publishing terminology and concepts.</li><li>To Manipulate text and graphics to create a balanced and focused layout.</li></ul>
Core Practical -3	<b>Data Structure Practicals</b>	<ul style="list-style-type: none"><li>To design and analyses the time and space efficiency of the data structure.</li><li>To identify the appropriate data structure for given problem.</li><li>To have practical knowledge on the applications of data structures.</li></ul>
: Allied Practical -3	<b>HTML Practicals</b>	<ul style="list-style-type: none"><li>To create a webpage using all input controls.</li><li>To design a webpage with hyperlink.</li><li>To design a webpage with frames, table and list etc</li></ul>

### SEMESTER-IV

Core-5	<b>Java Programming</b>	<ul style="list-style-type: none"><li>Students can</li><li>Illustrate basic programming concepts such as program flow and syntax of a high-level general language.</li></ul>
Core Paper-6	<b>Operating System</b>	<ul style="list-style-type: none"><li>To master structures and functions of operating systems.</li><li>To understand the concept of scheduling.</li></ul>
Allied-4	<b>Operations Research and Numerical Analysis</b>	<ul style="list-style-type: none"><li>Students can</li><li>Solve the problem using North West Corner's rule</li><li>Solve the Problem using Matrix minima method</li></ul>

  
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SB Practical-2	<b>Animation Practicals</b>	<ul style="list-style-type: none"> <li>Students can</li> <li>Learn about how to draw a flowchart for simple mathematical problem</li> <li>Learn about of how the flowchart is computed</li> </ul>
Non-Major Elective	<b>Basic Programming Design</b>	<ul style="list-style-type: none"> <li>Students can</li> <li>Acquire the basic knowledge about problem solving steps</li> <li>Understand about program writing and debugging</li> </ul>
: Non-Major Elective	<b>Web Graphic Design</b>	<ul style="list-style-type: none"> <li>Student can</li> <li>Learn animation frame by frame Understand the key frames and Timeline.</li> </ul>
Core Practical - 4	<b>Java Programming Practicals</b>	<ul style="list-style-type: none"> <li>To understand how to use Java APIs for program development.</li> <li>To learn how to extend Java classes with inheritance and dynamic binding.</li> <li>To learn how to use exception handling in Java applications.</li> </ul>
: Allied Practical-4	<b>Android Programming Practical</b>	<ul style="list-style-type: none"> <li>Design and develop user interface for the Android platform.</li> <li>Save state information across important operating system events.</li> <li>To demonstrate the skills of using Android software development tools.</li> </ul>
Common	<b>Digital Learning Tools</b>	<ul style="list-style-type: none"> <li>Understand the need and significance of E-Content in the context of Digital Learning Initiative.</li> <li>Develop deeper insights into the dynamics of E-content creation</li> <li>Produce an e-Module on some concept in their discipline.</li> </ul>

## SEMESTER-V

Core Paper- 7	<b>Software Engineering</b>	<ul style="list-style-type: none"> <li>The students can</li> <li>Acquire strong knowledge in developing software process.</li> <li>Get the knowledge of software development process models.</li> </ul>
Core Paper -8	<b>Relational Database Management System</b>	<ul style="list-style-type: none"> <li>The students can</li> <li>identify the importance of the DBMS over file handling system.</li> <li>understand different views on the DBMS.</li> </ul>
Core - 9	<b>Wireless Application Protocol</b>	<ul style="list-style-type: none"> <li>Students can</li> <li>Analyze the contribution of Wireless Communication networks to overall technological growth</li> <li>Account the architecture of WAP and its transaction.</li> </ul>

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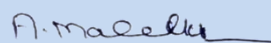
		<ul style="list-style-type: none"><li>Understand and apply Wireless Application Protocol used for wireless and mobile access using different transport systems.</li></ul>
Core Elective - 1	<b>Cloud Computing</b>	<ul style="list-style-type: none"><li>Student can</li><li>Able to understand Cloud Computing</li><li>Memorize the different Cloud Service and deployment models</li></ul>
Core Elective- 1	<b>Computer Graphics</b>	<ul style="list-style-type: none"><li>Students can</li><li>Understand the basics of computer graphics, different graphics systems and applications of computer graphics</li></ul>
Core Elective- 1	<b>Internet Security</b>	<ul style="list-style-type: none"><li>Students can</li><li>Depict security issues in Internet</li><li>Protect any network from the threats in the world</li><li>Familiarize with Security Plan in Internet</li></ul>
: Core Practical-5	<b>Relational Database Management System Practicals</b>	<ul style="list-style-type: none"><li>To have a broad understanding of database concepts and database management system software</li><li>To write SQL commands to create tables and indexes, insert/update/delete data, and query data in a relational DBMS.</li></ul>
Core Project	<b>Information Technology for Competitive Examinations &amp; Project</b>	<ul style="list-style-type: none"><li>Allow students to utilize problem solving skills</li><li>To provide detailed knowledge about core subjects</li></ul>

## SEMESTER-VI

: Core-10	<b>Data Communications and Networking</b>	<ul style="list-style-type: none"><li>Students can</li><li>Understand the rudiments of how computers communicate</li><li>Account the architecture of a number of different networks</li></ul>
Core -11	<b>Web Programming using PHP</b>	<ul style="list-style-type: none"><li>Students can</li><li>Learn about basics of Internet and web browsers</li><li>Know about Different types of websites according to creator's need</li></ul>

  
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Core-12	<b>NET Programming</b>	<ul style="list-style-type: none"> <li>• Students can</li> <li>• Set up a programming environment for ASP.net programs.</li> <li>• Configure an asp.net application</li> </ul>
: Core -13	<b>Machine Learning using Python</b>	<ul style="list-style-type: none"> <li>• Students can</li> <li>• Recognize the characteristics of machine learning that make it useful to real-world problems.</li> </ul>
Core Elective - 2	<b>Enterprise Resource Planning</b>	<ul style="list-style-type: none"> <li>• Students can</li> <li>• Understand the basic concepts of ERP</li> <li>• Discuss the benefits of ERP</li> <li>• Acquire the knowledge of supply chain management</li> </ul>
Core Elective-2	<b>Internet of Things</b>	<ul style="list-style-type: none"> <li>• The students can</li> <li>• Apply the working, characteristics and limitations of IoT.</li> <li>• Understand the impact of technologies.</li> <li>• Know the concept and the designs.</li> </ul>
Elective -2	<b>Cryptography and Network Security</b>	<ul style="list-style-type: none"> <li>• The students can</li> <li>• know the concepts of X.800 security architecture of OSI</li> <li>• understand the types of Security threats and attacks.</li> </ul>
Core Practical-6	<b>Python Programming Practicals</b>	<ul style="list-style-type: none"> <li>• To acquire programming skills in core Python.</li> <li>• To acquire Object Oriented Skills in Python</li> <li>• To develop the skill of designing Graphical user Interfaces in Python</li> </ul>
Core Practical -7	<b>Web Programming using PHP Practicals</b>	<ul style="list-style-type: none"> <li>• To develop basic programming skills using Client Side and Server Side Scripting</li> <li>• To provide students with a deep, critical and systematic understanding of most significant technologies for developing web applications</li> </ul>

### SEMESTER-I Computer Applications

Core	<b>Python Programming</b>	<ul style="list-style-type: none"> <li>• Learn the basics of python, Do simple programs on python, Learn how to use an array.</li> <li>• Develop program using selection statement, Work with Looping and jump statements, Do programs on Loops and jump statements.</li> </ul>
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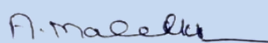
Core Practical	<b>Python Programming Lab</b>	<ul style="list-style-type: none"><li>• Demonstrate the understanding of syntax and semantics of PYTHON language.</li><li>• Identify the problem and solving using PYTHON programming techniques.</li></ul>
Elective	<b>Digital logic Fundamentals</b>	<ul style="list-style-type: none"><li>• Learn Boolean algebra</li><li>• Know arithmetic operations.</li></ul>
Core	<b>Discrete Mathematics</b>	<ul style="list-style-type: none"><li>• Construct simple mathematical proofs and possess the ability to verify them.</li><li>• Have substantial experience comprehend formal logical arguments.</li></ul>
SEC-NME	<b>Introduction to HTML</b>	<ul style="list-style-type: none"><li>• Knows the basic concept in HTML. Concept of resources in HTML.</li><li>• Knows Design concept. Concept of Meta Data. Understand the concept of save the files.</li></ul>
SEC-NME	<b>Web Designing</b>	<ul style="list-style-type: none"><li>• Develop working knowledge of HTML</li><li>• Ability to develop and publish web pages using Hypertext Markup Language (HTML).</li></ul>
FC	<b>Structured Programming language in C</b>	<ul style="list-style-type: none"><li>• Remember the program structure of C with its syntax and semantics.</li><li>• Understand the programming principles in C (data type, operators, branching and looping, array, functions, structure, pointers and files)</li></ul>

## SEMESTER-II

Core	<b>Object Oriented programming concepts using C++</b>	<ul style="list-style-type: none"><li>• Upon completion of the course the students would be able to:</li><li>• Remember the program structure of C with its syntax and semantics</li></ul>
Core Practical	<b>C+ Programming lab</b>	<ul style="list-style-type: none"><li>• Remember the program structure of C with its syntax and semantics</li><li>• Understand the programming principles in C.</li></ul>
Elective	<b>Resource Management Techniques</b>	<ul style="list-style-type: none"><li>• Understand the basic concepts of operations research</li><li>• Know the phases of solving operations research problems.</li></ul>
Elective	<b>Financial Accounting</b>	<ul style="list-style-type: none"><li>• Learn about the various general aspects of business operations.</li><li>• Explain the concepts and procedures of financial reporting, including income.</li><li>• Locate and analyze the financial data from annual report.</li></ul>

  
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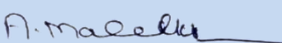


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Elective	<b>Computational Intelligence</b>	<ul style="list-style-type: none"><li>Describe the fundamentals of artificial intelligence concept and searching techniques.</li><li>Develop fuzzy logic sets and membership function and defuzzification techniques.</li></ul>
SEC-NME	<b>Office Automation</b>	<ul style="list-style-type: none"><li>Possess the knowledge on the basics of computers and its components.</li><li>Gain knowledge on Creating Documents, spreadsheet and presentation.</li></ul>
SEC-NME	<b>Open Source Technologies</b>	<ul style="list-style-type: none"><li>Acquire and understand the basic concepts in Jvav, application of OOPS concepts.</li><li>Acquire knowledge about operators and decision-making statements.</li></ul>
SEC	<b>Quantitative Aptitude</b>	<ul style="list-style-type: none"><li>Under the concepts, application and the problems of numbers.</li><li>To have basic knowledge and understanding about percentage, profit &amp; loss related processing.</li></ul>
SEC	<b>Biometrics</b>	<ul style="list-style-type: none"><li>To understand the basic concepts and the functionality of the biometrics, face biometrics, types, Architecture and Applications.</li><li>To know the concepts retina and iris biometrics and vein and fingerprint biometrics.</li></ul>
SEC	<b>Cyber Forensics</b>	<ul style="list-style-type: none"><li>Understand the definition of computer forensics fundamentals.</li><li>Evaluate the different types of computer forensics technology.</li></ul>

  
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