



SRI SARADA COLLEGE FOR WOMEN

(An Autonomous Institution)

Affiliated to Manonmaniam Sundaranar University, Tirunelveli)

Institution recognised u/s 2(f) and 12(B) of UGC & Reaccredited with "A" grade by NAAC

(A branch of Sri Ramakrishna Tapovanam, Tirupparaiturai)

Ariyakulam, Thoothukudi NH, Maharaja Nagar Post,

TIRUNELVELI - 627 011



CRITERIA -II

2.6 Student Performance and Learning Outcomes

2.6.1 Course Outcomes

2022-2023



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TIRUNELVELI-627011

E-mail: srisaradatvl@gmail.com Website: www.srisaradacollege.org



SEMESTER-I

Major paper	Micro Economics -I	<ul style="list-style-type: none">To enable the students to understand the basic concepts of economics.To develop the market structure and distribution theories.
Major paper	Statistical Methods-I	<ul style="list-style-type: none">To enable the students to understand the use of statistical tools in research.To evaluate the diagrammatic and graphic presentation and frequency distribution.
Allied paper	Environmental Economics	<ul style="list-style-type: none">To enable the students to understand the basic concepts of Environmental Economics.To educate them to have concern towards environment.

SEMESTER-II

Major paper	Micro Economics -II	<ul style="list-style-type: none">To enable the students to understand the concept of cost, revenue, price determination and profit theories.
Major paper	Statistical Methods-II	<ul style="list-style-type: none">To learn and recognize the connections between theory and applications.To learn and apply the tools of formal inference, in statistics.
Major	Professional English for Arts and Social Sciences -II	<ul style="list-style-type: none">Develop their competence in the use of English with particular reference to the workplace situation.Enhance the creativity of the students, which will enable them to think of innovative ways to solve issues in the workplace.
Allied-2	Agricultural Economics	<ul style="list-style-type: none">To acquire the nature and scope of Agricultural Economics.To understand the causes of low productivity in Indian agriculture.

SEMESTER III

Major paper	Mathematical Methods	<ul style="list-style-type: none">To understand the meaning and significance of elementary mathematical tools.
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		<ul style="list-style-type: none"> To understand the concept of mathematical techniques.
Major paper	International Economics	<ul style="list-style-type: none"> To study the determinants of exchange rates and balance of payments To understand the analysis of foreign exchange transactions
Allied - 3	Health Economics	<ul style="list-style-type: none"> To assess the efficiency and effectiveness of functions and their cost implication. To understand the policy relevance and utility through Planning
NME-1	Essentials of Economics	<ul style="list-style-type: none"> To learn about product pricing under different market conditions. To enhance the knowledge and productivity level and to Investment.
NME -1	Economics Insurance	<ul style="list-style-type: none"> To provide basic knowledge of insurance. To know the essentials of insurance.
SEMESTER IV		
Major paper	Mathematical Economics	<ul style="list-style-type: none"> To enable students to apply mathematics to understand economic theory. To use appropriate mathematical concepts to solve economic problems.
Major paper	International Economic Theories and Policies	<ul style="list-style-type: none"> To study the theories of international trade in goods and services To study the recent trend in India's foreign trade
Allied-41	Rural Economics	<ul style="list-style-type: none"> To understand the features of rural economy and to highlight the need to develop rural areas. To bring into the light the problems of rural villages and to familiarize the initiatives undertaken.
Skilled Based-2	Entrepreneurial Enhancement	<ul style="list-style-type: none"> To Understand the role of women entrepreneurs To motivate to Start enterprises by using institutional supports
NME-2	Issues in Indian Economy	<ul style="list-style-type: none"> To study the Characteristics of Indian Economy. To understand the causes and consequences of Poverty
NME -2	Economics of Salesmanship	<ul style="list-style-type: none"> To provide basic knowledge of salesman in marketing. To develop salesmanship skills in students




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SEMESTER V

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

SEMESTER VI

Common	Project	<ul style="list-style-type: none">To have hands on training in the fields of economic sectors.To train presentation skill in the open forum.
Major paper	Macro Economic Theory and Practice	<ul style="list-style-type: none">To enable the students to understand the concepts, theoretical foundations and methods of analysis in Macro Economics.To develop the skill in evaluating macroeconomic policies of economic development
Major paper	: Public Finance	<ul style="list-style-type: none">To Understand the equitable distribution of wealth within the society.To understand the importance of Public finance, taxation, state and central budget.
Major paper	: Planning and Growth	<ul style="list-style-type: none">To examine the core issues and theories in economic development.To gain knowledge about the dynamics of development.
Major paper	Labour Economics	<ul style="list-style-type: none">To understand the functioning and dynamics of the market for wage labour.To Study the importance of social security to unorganized sector workers.
Major paper	Economic Thinkers	<ul style="list-style-type: none">To assess the efficiency and effectiveness of functions and their cost



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		<p>implication.</p> <ul style="list-style-type: none"> To understand the policy relevance and utility through Planning
Major paper	Demographic Economics	<ul style="list-style-type: none"> To understand the meaning and significance of Democracy in economics. To know the knowledge about the Size, Composition and distribution of Population.
SEMESTER I		
Core 1	Calculus and Classical Algebra	<ul style="list-style-type: none"> To understand the basic concepts of Calculus. To gain knowledge in applications of Calculus.
Core	Professional English for Physical Sciences - I	<ul style="list-style-type: none"> To develop the language skills of students by offering adequate practice in professional contexts. To enhance the lexical, grammatical and socio-linguistic and communicative competence of first year physical sciences students
Allied-I	Allied Mathematics I	<ul style="list-style-type: none"> To understand the basic concepts of equations Learnt to solve the algebraic equations of higher order using the methods discussed
SEMESTER II		
Core -2	Analytical Geometry - 3D and Differential Equations	<ul style="list-style-type: none"> To introduce the first order and higher degree equations. To introduce the method of solving the Clairaut's form equation and lagrange's equation
Allied-II	Allied Mathematics II	<ul style="list-style-type: none"> To provide basic knowledge of vector differentiation and integration. To solve integration problems.
SEMESTER III		
Core-3	Sequences and Series	<ul style="list-style-type: none"> To lay a good foundation of Classical Analysis To study the behavior of Sequences and series
Skill Based Core	Trigonometry and Vector Calculus	<ul style="list-style-type: none"> To enrich with the knowledge of trigonometric functions To have a good foundation for vector calculus.
Non Major Elective	Basics of Statistics	<ul style="list-style-type: none"> To provide basic knowledge of correlation and regression. To develop a working knowledge to handle practical problem.
Non-Major	Mathematics for	<ul style="list-style-type: none"> To learn the problems solving techniques for aptitude problems.



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Elective	Competitive Examinations-I	<ul style="list-style-type: none"> To enable the students prepare themselves for various competitive examinations.
SEMESTER IV		
Core-4	Modern Algebra	<ul style="list-style-type: none"> To introduce the concept of Groups, Rings and Ideals. To study the concept of Homomorphism and Isomorphism.
Skill Based Core	Laplace Transforms and Fourier Series	<ul style="list-style-type: none"> To know the concept of Laplace Transform To study the concept of Fourier Series
Non-Major Elective	Essentials of Statistics	<ul style="list-style-type: none"> To introduce measures of central tendency to other major students. To study index numbers and simple problems.
Non-Major Elective	Mathematics for Competitive Examinations-II	<ul style="list-style-type: none"> To learn the problems solving techniques for aptitude problems. To enable the students prepare themselves for various competitive examinations.
SEMESTER V		
Core -5	Real Analysis	<ul style="list-style-type: none"> To give a comprehensive idea about the continuity, connectedness and compactness To have a good foundation in the concepts of abstract mathematics.
Core-6	Mechanics	<ul style="list-style-type: none"> To understand the basic concept and principles of statics and dynamics. To introduce the postulates governing static and dynamic system.
Core-7	Transforms and Their Applications	<ul style="list-style-type: none"> To understand the basic concept and principles of statics and dynamics. To introduce the postulates governing static and dynamic system.
Core Elective I	Fuzzy Sets and Logic	<ul style="list-style-type: none"> To explain the fundamental concepts of fuzzy set. To demonstrate the concept of α-cuts and its properties.
Core Elective I	Discrete Mathematics	<ul style="list-style-type: none"> To introduce the concept of lattice. To teach various types of lattices.
Core Elective-I	Astronomy	<ul style="list-style-type: none"> To enable the students to understand the Astronomical aspects and about the laws governing the planet movements. To achieve a good understanding of physical laws and principles.




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Project	Mathematics for competitive Examinations and Project	<ul style="list-style-type: none">To demonstrate an understanding of the foundations and history of MathematicsTo perform computations in higher mathematics
SEMESTER VI		
Core - 8	Linear Algebra	<ul style="list-style-type: none">To learn about vector spaces and matrices and theorems.To cope-up with the homeomorphisms through fundamental theorem.
: Core -9	Complex Analysis	<ul style="list-style-type: none">To assist the students in learning fundamental ideas and theorems about complex plane.To learn about bilinear transformation
Core -10	Number Theory	<ul style="list-style-type: none">To understand the basic knowledge of numbers and its types.To explain congruence and its properties
Core-11	Graph Theory	<ul style="list-style-type: none">To learn the basic concepts in Graph theory such as trees.To familiarize the concepts on planar, Eulerian and Hamiltonian graphs.
Core Elective II	Applications of Differential Equations	<ul style="list-style-type: none">To study the concept of measures of dispersion and measures of central tendencies.To develop the concept of Probability distribution
Core Elective II	Operations Research	<ul style="list-style-type: none">To introduce the various techniques of Operation Research.To solve problems in Business management.
SEMESTER I		
Language	தற்காலஇலக்கியம்	<ul style="list-style-type: none">தமிழ்இலக்கியங்களின்இன்றையவளர்ச்சிநிலையைஅறியச்செய்தல்.புதியபடைப்புகளைஉருவாக்கத்தூண்டுதல்.
SEMESTER – II		
Language	பக்திஇலக்கியம்	<ul style="list-style-type: none">பேச்சாற்றல், படைப்பாற்றல்போட்டித்தேர்வுகளில்உயர்ந்தமதிப்பெண்கள்.தமிழர்களின்வாழ்வியலை,வழிபாட்டுமுறைகளைஅறிந்துகொள்ளுதல்
Language	பன்னோக்குஇலக்கியம்	<ul style="list-style-type: none">வாழ்வியலைஅறிந்துகொள்ளுதல், பேச்சாற்றல்.போட்டித்தேர்வுகளில்உயர்ந்தமதிப்பெண்கள்.பத்திரிக்கைழுத்தாளர்,வானொலிமற்றும்தொலைக்காட்சிநிலைய அறிவிப்பாளர்.
SEMESTER III		



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: Language	காப்பியஇலக்கியம்	<ul style="list-style-type: none"> காப்பியஇலக்கியத்தோற்றம், வளர்ச்சிகுறித்து அறியத்தருதல். தமிழ்இலக்கியங்களில் காப்பியம்பெற்றுள்ள சிறப்பிடத்தை எடுத்துரைத்தல்.
Language	காவியஇலக்கியம்	<ul style="list-style-type: none"> காப்பியஇலக்கியத்தோற்றம், வளர்ச்சிகுறித்து அறியத்தருதல். தமிழ்இலக்கியங்களில் காப்பியம்பெற்றுள்ள சிறப்பிடத்தை எடுத்துரைத்தல்.
NME	பழகுதமிழ்தாள்-I	<ul style="list-style-type: none"> தமிழ்எழுத்துக்களின் அறிமுகம் மற்றும் சொற்களைக்கற்றல். சொந்திறன்மற்றும் எழுதும் திறனை வளர்த்தல். மொழிவழிதகவல்களை செறிவாகப் பயன்படுத்துதல்.
: NME	தீந்தமிழ்தாள்-I	<ul style="list-style-type: none"> மொழித்திறனை வளர்த்தல். தொடர்புத்திறன்மற்றும் சிந்தனைத்திறனை வளர்த்தல். இலக்கியங்கள்கூறும் வாழ்வியலை எடுத்துரைத்தல்.
SEMESTER IV		
Language	பண்டைஇலக்கியம்	<ul style="list-style-type: none"> பழந்தமிழ்இலக்கியவளத்தை உணர்த்துதல். சங்கஅக, புறபாடல் மரபுகளைப் பயிற்றுவித்தல். வாழ்வியல் அறங்கள் மற்றும் வரலாற்றுச் செய்திகளை அறியச்செய்தல்.
Language	செவ்வியல்இலக்கியம்	<ul style="list-style-type: none"> பழந்தமிழ்இலக்கியவளத்தை உணர்த்துதல். சங்கஅக, புறபாடல் மரபுகளைப் பயிற்றுவித்தல். வாழ்வியல் அறங்கள் மற்றும் வரலாற்றுச் செய்திகளை அறியச்செய்தல்.
NME	பழகுதமிழ்தாள்- II	<ul style="list-style-type: none"> பிழையின்றிப் பேசவும், எழுதவும் பயிற்றுவித்தல். பண்பாடு மற்றும் கலாச்சாரத்தை எடுத்துரைத்தல். போட்டித்தேர்வுகளில் சிறந்தமதிப்பெண் பெறச்செய்தல்.
NME	தீந்தமிழ்தாள்- II	<ul style="list-style-type: none"> மொழிவளம் மற்றும் சிந்தனைத்திறனை வளர்த்தல். படைப்புத்திறனை வளர்த்துக்கொள்ள உணக்குவித்தல். போட்டித்தேர்வுகளில் சிறந்தமதிப்பெண் பெறச்செய்தல்.
SEMESTER I		
Core 1	Calculus and Classical Algebra	<ul style="list-style-type: none"> To understand the basic concepts of Calculus. To gain knowledge in applications of Calculus. To understand the basic concepts of equations.
Core	Professional English for Physical Sciences - I	<ul style="list-style-type: none"> Recognize their own ability to improve their own competence in using the language



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		<ul style="list-style-type: none"> Use language for speaking with confidence in an intelligible and acceptable manner Understand the importance of reading for life
Allied-I	Allied Mathematics I	<ul style="list-style-type: none"> To understand the basic concepts of equations Learnt to solve the algebraic equations of higher order using the methods discussed
SEMESTER II		
Core -2	Analytical Geometry - 3D and Differential Equations	<ul style="list-style-type: none"> To introduce the first order and higher degree equations. To introduce the method of solving the Clairaut's form equation and lagrange's equation. Learnt to identify the types of differential equations and to solve them using appropriate method.
Allied-II	Allied Mathematics II	<ul style="list-style-type: none"> To provide basic knowledge of vector differentiation and integration. To solve integration problems. To understand the evaluation of double and triple integrals.
SEMESTER III		
Core-3	Sequences and Series	<ul style="list-style-type: none"> To lay a good foundation of Classical Analysis To study the behavior of Sequences and series To gain knowledge about Comparison test and nth test.
Skill Based Core	Trigonometry and Vector Calculus	<ul style="list-style-type: none"> To enrich with the knowledge of trigonometric functions To have a good foundation for vector calculus.
Non Major Elective	Basics of Statistics	<ul style="list-style-type: none"> To provide basic knowledge of correlation and regression. To develop a working knowledge to handle practical problem.
Non-Major Elective	Mathematics for Competitive Examinations-I	<ul style="list-style-type: none"> To learn the problems solving techniques for aptitude problems. To enable the students prepare themselves for various competitive examinations
SEMESTER IV		
Core-4	Modern Algebra	<ul style="list-style-type: none"> To introduce the concept of Groups, Rings and Ideals.



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		<ul style="list-style-type: none"> To study the concept of Homomorphism and Isomorphism.
Skill Based Core	Laplace Transforms and Fourier Series	<ul style="list-style-type: none"> To know the concept of Laplace Transform To study the concept of Fourier Series
Non-Major Elective	Essentials of Statistics	<ul style="list-style-type: none"> To introduce measures of central tendency to other major students. To study index numbers and simple problems. To know the concept of attributes.
Non-Major Elective	Mathematics for Competitive Examinations-II	<ul style="list-style-type: none"> To learn the problems solving techniques for aptitude problems. To enable the students prepare themselves for various competitive examinations.
SEMESTER V		
Core -5	Real Analysis	<ul style="list-style-type: none"> To give a comprehensive idea about the continuity, connectedness and compactness To have a good foundation in the concepts of abstract mathematics.
Core-6	Mechanics	<ul style="list-style-type: none"> To understand the basic concept and principles of statics and dynamics. To introduce the postulates governing static and dynamic system. Learn to analyze the mechanism of physical problems.
Core-7	Transforms and Their Applications	<ul style="list-style-type: none"> To understand the basic concept and principles of statics and dynamics. To introduce the postulates governing static and dynamic system. Learn to analyze the mechanism of physical problems.
Core Elective I	Fuzzy Sets and Logic	<ul style="list-style-type: none"> To explain the fundamental concepts of fuzzy set. To demonstrate the concept of α-cuts and its properties.
Core Elective I	Discrete Mathematics	<ul style="list-style-type: none"> To introduce the concept of lattice. To teach various types of lattices. To cope-up with recent advancements in Boolean algebra and logic.
Core Elective-I	Astronomy	<ul style="list-style-type: none"> To enable the students to understand the Astronomical aspects and about the laws governing the planet movements. To achieve a good understanding of physical laws and principles. Use Mathematics to performs calculations on earth and or space science problems.
Project	Mathematics for competitive Examinations and Project	<ul style="list-style-type: none"> To demonstrate an understanding of the foundations and history of Mathematics To perform computations in higher mathematics




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SEMESTER VI

Core - 8	Linear Algebra	<ul style="list-style-type: none">To learn about vector spaces and matrices and theorems.To cope-up with the homomorphism's through fundamental theorem.To explain about rank and nullity.
Core -9	Complex Analysis	<ul style="list-style-type: none">To assist the students in learning fundamental ideas and theorems about complex plane.To learn about bilinear transformationTo explain about poles and residues through Taylor and Laurent's series expansions.
Core -10	Number Theory	<ul style="list-style-type: none">To understand the basic knowledge of numbers and its types.To explain congruence and its properties.
Core-11	Graph Theory	<ul style="list-style-type: none">To learn the basic concepts in Graph theory such as trees.To familiarize the concepts on planar, Eulerian and Hamiltonian graphs.To explain about its applications
Core-12	Statistics	<ul style="list-style-type: none">To study the concept of measures of dispersion and measures of central tendencies.To develop the concept of Probability distribution.
Core Elective II	Applications of Differential Equations	<ul style="list-style-type: none">To study the concept of measures of dispersion and measures of central tendencies.To develop the concept of Probability distribution.
Core Elective II	Operations Research	<ul style="list-style-type: none">To introduce the various techniques of Operation Research.To solve problems in Business management.To understand different types of LLP.
Core Elective-II	Physical Cosmology	<ul style="list-style-type: none">To enable the students to learn about the interesting facts of Moon, Sun and Planetary motion.To achieve a good understanding of physical laws and principles.To describe and explain the observed daily and long-term motion of objects (sun, moon, planets and stars)

SEMESTER I

Core 1	Mechanics, Properties of Matter And Acoustics	<ul style="list-style-type: none">To classify materials based on the realistic propertiesTo explain the concept to fluid dynamics and applications
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		<ul style="list-style-type: none"> To study the behavior of rigid body dynamics
Core	Professional English for Physical Sciences–I	<ul style="list-style-type: none"> To develop the language skills of students by offering adequate practice in professional contexts. To enhance the lexical, grammatical and socio-linguistic and communicative competence of first year Physical sciences students
Allied 1	Allied Physics– I (for Mathematics Students)	<ul style="list-style-type: none"> To understand the elastic behaviours of different materials To understand the concept of surface tension and viscosity
Core Practical 1	Mechanics and Optics Practicals	<ul style="list-style-type: none"> To develop the practical skills by applying the laws and concepts in physics experiments.
Allied	Allied Physics Practical–I	<ul style="list-style-type: none"> Understand the application side of the experiments Use of basic laws to study the spectral properties and optical properties of the given prism
SEMESTER II		
Core 2	Thermal Physics And Optics	<ul style="list-style-type: none"> To classify materials based on their elastic properties To explain the concept of fluid dynamics and applications To study the behavior of rigid body dynamics
Allied 2	Allied Physics-II(for Maths)	<ul style="list-style-type: none"> To acquire knowledge about electric field, magnetic field and the relation between those two. To acquire knowledge on static properties of nuclei and nuclear models
Core Practical 2	Thermal and Optics Practicals	<ul style="list-style-type: none"> Obtain the knowledge in electrical, light and heat experiments. Use of basic laws to study the spectral properties and optical properties of the given prism and grating.
Allied Practical 2	Allied Practical – II(for Maths)	<ul style="list-style-type: none"> Gain knowledge in the scientific methods and learn the process of measuring different Physical variables Use standard methods to calibrate the given low range voltmeter and ammeter and to measure




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SEMESTER III

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

SEMESTER IV

core 4	Electromagnetism	<ul style="list-style-type: none">To understand the magnetic effects of electric currents and the basics of electromagnetic waves.To impart knowledge about inductance of a coil, solenoid and toroid
Skill based 2	Testing and Practical use of Electronic Components	<ul style="list-style-type: none">To provide an idea about handling of commonly used electronic equipments.To understand about oscilloscopes.To know how to measure voltage, current and resistance using multimeter.



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Allied	Allied Physics-II(for chemistry)	<ul style="list-style-type: none"> To acquire knowledge about electric field, magnetic field and the relation between those two. To acquire knowledge on static properties of nuclei and nuclear models
Non-Major Elective	Basic physics-II	<ul style="list-style-type: none"> To gain basic knowledge about structure and properties of nucleus. To understand the properties of alpha, beta and gamma rays To get idea about different types of lasers
Non Major Elective	Space Physics	<ul style="list-style-type: none"> To acquire knowledge about of Constellations. To know about comets, meteors and asteroids.
Core Practical 4	Magnetic and Electric Practicals	<ul style="list-style-type: none"> To measure the electro motive force (emf) and internal resistance of a dry cell. To determine the resistance of a ballistic coil galvanometer by half deflection method
Allied Practical 2	Allied Practical-II (For Chemistry Students)	<ul style="list-style-type: none"> Students can easily understand how to calibrate voltmeter and ammeter. To understand the concept of comparison between basic logic gates– AND, OR, NOT.
SEMESTER V		
Core 5	Analog Electronics	<ul style="list-style-type: none"> To know about the ore muse din Electronics To understand about diode and transistor circuits and the basics of operational amplifier. To gain knowledge about rectifier circuits and its applications
Core 6	Programming in C++	<ul style="list-style-type: none"> To provide knowledge about the basics of Computer programming in C++ To solve the problems using C++ programme
Core 7	Atomic Physics	<ul style="list-style-type: none"> To provide an introductory account about the atomic structure and the impact of X-rays. To give a broad knowledge about important characteristics of atoms, molecules and their interaction with electromagnetic fields
Core Elective	Numerical Methods	<ul style="list-style-type: none"> To analyze the error and accuracy of common numerical methods and to rectify it. To know how to use approximation methods to find solution to problems which do not have exact solution
Core Elective	Fundamentals of Spectroscopy	<ul style="list-style-type: none"> To impact the knowledge of atomic spectra, molecular spectra and their instrumentations. To gain knowledge to identify materials with the help of various spectra
Core Practical 5	Electrical and Optics	<ul style="list-style-type: none"> To get well developed knowledge about Spectrometer experiments




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	Practicals	<ul style="list-style-type: none">To analyze the effects of refractive index of a medium using optical instruments
Core Practical 6	Analog and Digital Electronics Practicals	<ul style="list-style-type: none">To learn physical concepts through experimentsThe students can acquire the knowledge about the characteristics of Transistor
Core 8	Physics for Competitive Examination and Project	<ul style="list-style-type: none">Enable to get through in various competitive examinations like governments service, entrance examinations for higher studies.
SEMESTER VI		
Core 9	Digital Electronics	<ul style="list-style-type: none">To know about decimal, binary, octal, and hexa decimal number systems and their conversions.To provide knowledge about Boolean algebra and logic gates.
Core 10	Quantum Mechanics	<ul style="list-style-type: none">Learn the Failure of classical physicsUnderstand the distribution of energy in the spectrum of black body
Core 11	Nuclear Physics	<ul style="list-style-type: none">To know about the nucleus and its propertiesTo understand the concept of nuclear forces and its theories
Core 12	Solid State Physics	<ul style="list-style-type: none">Explain crystal systems, diffraction and reciprocal spaceDefine Atomic packing, Crystal, Lattice, Unit cell and Translation vectors
Core 13	Energy Physics	<ul style="list-style-type: none">To know about the concept of various forms of renewable energy and nonrenewable energyTo able to perform an initial design of a renewable energy system
Core Practical 7	Electrical & Electronics Practicals	<ul style="list-style-type: none">The students can know that Anderson bridge is used to measure an unknown inductance in terms of known capacitance.
Core Practical 8	Computer Programming in C++	<ul style="list-style-type: none">The students can calculate the period of pendulum, to learn the Physics formulas apply on the C++ program
PG SEMESTER I		
Core1	Classical Mechanics	<ul style="list-style-type: none">Students have a deep understanding of Newton's laws. Understand the foundations of chaotic motion.
Core2	Mathematical Physics I	<ul style="list-style-type: none">Have deep Knowledge about vector analysis and matrices.Gain knowledge in special functions and Fourier's Integral & Transforms.



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Core3	Integrated electronics	<ul style="list-style-type: none"> Have a deep knowledge about the concepts and terminology of digital electronics. The ability to understand analyze and design various combinational and sequential circuits.
Core4	Non-Linear Dynamics	<ul style="list-style-type: none"> Have knowledge about in online arity and oscillators. Understand the ideas about Fractals and Solitons.
Core5	Nano Physics	<ul style="list-style-type: none"> Know about different types of synthesis processes Gain basic ideas about laser synthesis Get knowledge about biological synthesis
CorePractical1	General Physics Experiments Lab	<ul style="list-style-type: none"> The student will be able to understand the fundamental physics behind many scientific discoveries through hands on experience.
CorePractical 2	Advanced Electronics Lab	<ul style="list-style-type: none"> The student will be able to understand the fundamental physics behind electronic circuits used in many modern devices through hands on experience.
		SEMESTER II
Core6	Mathematical Physics II	<ul style="list-style-type: none"> Physics candidate should be able to understand basic theory of vector and tensor analysis and functions of complex variables.
Core7	Condensed Matter Physics	<ul style="list-style-type: none"> Physics candidate will be able to underst and the physics behind structural properties of the solids. Physics candidate can pursue there search work in the field of material science and nanotechnology.
Core 8	Microprocessor8085andMicrocontroller8051	<ul style="list-style-type: none"> Physics candidate should able to understand the 8085 Microprocessor and 8051 microcontroller and their architectures



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Core 9	Numerical Methods and Programming in C++	<ul style="list-style-type: none">Physics candidate should be able to use the bisection method, false position, Newton's, Secant method to estimate the number of iterations in the algorithm to achieve desired accuracy with the given tolerance;
Core 10	Optoelectronics and Communication	<ul style="list-style-type: none">To explain the optical process in semiconductors.To explain the construction and applications of optoelectronic devices.
Core Practical 3	Advanced Physics Experiments Lab	<ul style="list-style-type: none">Gain the knowledge in advanced technique of Physics and Science methodology.
Core Practical 4	Integrated Electronics Lab	<ul style="list-style-type: none">Gain the knowledge about electronic circuit and its working.
SEMESTER III		
Core 11	Quantum Mechanics I	<ul style="list-style-type: none">To get knowledge about wave functions and Schrodinger equations.To understand matrix mechanics and Heisenberg uncertainty principle.
Core 12	Electromagnetic Theory	<ul style="list-style-type: none">To understand propagation of electromagnetic waves through various media including waveguides
Core 13	Statistical Mechanics	<ul style="list-style-type: none">To study the basic concepts involved in statistical mechanics, classical and quantum statistics.To acquire basic understanding of applications of quantum statistics, phase transition in certain physical problems.
Core 14	Research Methodology	<ul style="list-style-type: none">To understand the basic concepts of literature collection, activities involved in their search problem, method of writing the thesis.
Core 15	Project	<ul style="list-style-type: none">The students can apply the theoretical knowledge of principles and concepts of Physics to practical problems use mathematical techniques and interpret mathematical models of physical behavior.
Core Practical 5	Advanced Magnetic and Optics Lab	<ul style="list-style-type: none">To provide hands on experience in understanding the advanced physics experiments Gouy's method, elliptical fringes, Hall probe into Gaussmeter, and Photo transistor characteristics.To study the basic skills and knowledge about the experiments.



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		SEMESTER IV
Core 16	Quantum mechanics II	<ul style="list-style-type: none"> To provide the knowledge on the theory of angular momentum. To study various approximation methods, and theory of scattering
core 17	Spectroscopic Techniques	<ul style="list-style-type: none"> To give detailed knowledge about various types of spectroscopy. To determine the structure of different chemical compounds by studying the setypes.
Core 18	Nuclear and Particle Physics	<ul style="list-style-type: none"> To get knowledge about the elementary particles and nuclear structure. To study about various nuclear reactions. To know about elementary particles
Core Elective 1	Astro Physics	<ul style="list-style-type: none"> To renew the concepts of coordinate system and stellarspectra. To get the clear understanding of astronomical instruments.
CoreElective 1	Renewable Energy Sources	<ul style="list-style-type: none"> To understand a brief knowledge about the types of various non-conventional energy sources. To study the societal application of these energy sources.
CoreElective 1	Material Science	<ul style="list-style-type: none"> To learn about mechanical properties of materials To know the concept of phase diagram
Core Practical6	Advanced Thermal and Electrical Lab	<ul style="list-style-type: none"> Dehands on experience in understanding the advanced physics experiments Hall effect, Hysteresis, Ultrasonic diffraction etc., To understand basic skills and knowledge about the experiments. To study the theory behind the experiments.
Core Practical 7	Microprocessor and C++Programming Lab	<ul style="list-style-type: none"> To Provide hands on experience on microprocessor experiments. To learn the knowledge of arithmetic operation, data manipulation, interfacing experiments ,ADC&DAC conversion etc...
		SEMESTER I
Core Paper-1	Basics of Inorganic	<ul style="list-style-type: none"> To study the atomic structure from wave mechanical concept



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	Chemistry	<ul style="list-style-type: none">To know the arrangement of elements in the periodic table and the periodic properties.
Core 1	Professional English for Physical Sciences-I	<ul style="list-style-type: none">To enhance the lexical, grammatical and socio-linguistic and communicative competence of first year physical sciences studentsTo focus on developing students' knowledge of domain specific registers and the required language skills.
Core Practical-1	Inorganic Quantitative Analysis-I	<ul style="list-style-type: none">To enable the students to acquire the quantitative skills in volumetric analysis.At the end of the course, the students should be able to plan experimental projects and execute them.
		SEMESTER II
: Core Paper-2	Basics of Organic Chemistry and States of Matter	<ul style="list-style-type: none">To learn the classification and nomenclature of organic compounds.To study the basic reaction mechanism
Add on Core 2	Professional English for Physical Sciences-II	<ul style="list-style-type: none">Develop their competence in the use of English with particular reference to the workplace situation.Enhance the creativity of the students, which will enable them to think of innovative ways to solve issues in the workplace.
Core Practical-2	Inorganic Quantitative Analysis-II	<ul style="list-style-type: none">To enable the students to acquire the quantitative skills in volumetric analysis.To make the students thorough in inorganic complex preparations
		SEMESTER III
Core Paper- 3	Organic Functional Groups	<ul style="list-style-type: none">To learn about aliphatic and aromatic aldehyde and ketone.To know the chemical reactions of mono, di and unsaturated carboxylic acids.
Core Practical-3	Inorganic Qualitative Analysis	<ul style="list-style-type: none">To understand the systematic analysis of inorganic salt mixture.To create an awareness on eco-friendly approach in salt analysis



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Allied – 1	Basic Concepts in Chemistry	<ul style="list-style-type: none">To learn about atomic structure and bonding.2.To learn the principles of reactions of organic compounds.
Allied Practical – 1	Inorganic Quantitative Analysis	<ul style="list-style-type: none">To enable the students to acquire the quantitative skills in volumetric analysis
Skill Based Core (SBC) -1	Agro Chemistry	<ul style="list-style-type: none">To learn about fertilizersTo learn about pesticides
Non Major Elective-1	Water Technology	<ul style="list-style-type: none">To acquire the knowledge of Water PollutionTo understand water quality parametersTo know water purification techniques
Non Major Elective-1	Basics of Food Science	<ul style="list-style-type: none">To acquire the basic knowledge of food chemistry and nutrition contents in foodTo gain knowledge in food Additives
		SEMESTER IV
Core Paper –4	Thermodynamics	<ul style="list-style-type: none">To learn about basic concepts and I law of thermo dynamicsTo know the need for II law of the rmodynamics
Core Practical- 4	Inorganic Preparation and Determination of Physical Constants	<ul style="list-style-type: none">○To train the students thoroughly in preparing the in organic complexes.To enable the students to determine the physical constants.
Allied-2	Advanced Topics in Chemistry	<ul style="list-style-type: none">To learn the basic concepts of polymer chemistry.To know the importance of chemistry in industries.
Allied Practical-2	Inorganic Qualitative Analysis	<ul style="list-style-type: none">To enable the student to understand various procedure in salt analysis.To create an awareness on eco-friendly approach in salt analysis
Skill Based Core (SBC)-2	Human Health Chemistry	<ul style="list-style-type: none">To have knowledge of first aid and the important rules.To acquire knowledge about the chemicals used in medicine
Non Major Elective-2	Applied Chemistry	<ul style="list-style-type: none">To study about Soaps, Detergents



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		<ul style="list-style-type: none">To know the importance of fertilizerTo know the basic concept of polymer chemistry.
Non Major Elective-2	Dairy Chemistry	<ul style="list-style-type: none">To learn the composition of milk and the factors affecting its composition.To understand the processing of milkTo know the chemistry of cream and butter
		SEMESTER V
Core Paper – 5	Metallurgy and Group Elements	<ul style="list-style-type: none">To learn the chemistry of s, p, d & f- Block elementsTo learn the preparative methods of some compoundsTo know the basic principles of metallurgy
Core Paper – 6	Stereochemistry and Heterocyclic Compounds	<ul style="list-style-type: none">To know about the various types of dyes and heteronucleic hydrocarbons.To understand the organic reaction mechanisms.To understand the stereochemistry of organic compounds
Core Paper- 7	Electrochemistry and Phase Equilibria	<ul style="list-style-type: none">To understand the basic concept of Electro chemistryTo know the working principle of various electrode.
Core Elective-1	Polymer Chemistry	<ul style="list-style-type: none">To know the concept of polymerization and types of polymersTo understand the characteristics of polymers
Core Elective-1	Bioinorganic Chemistry	<ul style="list-style-type: none">To study the significance of trace elements in biological system.To study the biological role of electron transfer proteins
Core Elective-1	Chemical Biology and Biophysical Chemistry	<ul style="list-style-type: none">To gain knowledge about CarbohydratesTo understand the physical properties of Amino acidsTo study the reactions of Lipids
Skill Based Elective	Chemistry for Competitive Examinations and	<ul style="list-style-type: none">To study the periodic properties, hybridization and geometry of moleculesTo study the basic principles and the methods of preparation, properties and uses of organic compounds.



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	Project	
Core Practical –5	Organic Analysis and Organic Estimation	<ul style="list-style-type: none">To enable the students to understand the various procedures in organic analysis and organic preparationTo create an awareness on micro scale experiments in organic chemistry practical
SEMESTER VI		
Core Paper- 8	Bioinorganic Chemistry and Coordination Chemistry	<ul style="list-style-type: none">To study the theories in coordination chemistry.To acquire basic knowledge about splitting of orbital
Core Paper-9	Organic Spectroscopy and Natural Products	<ul style="list-style-type: none">To study the classification and structure of carbohydrates.To study the structural elucidation and biological properties of alkaloids
Core Paper- 10	Kinetics, Spectroscopy and Group Theory	<ul style="list-style-type: none">To study the kinetics of reactions.To understand the basic concept of Molecular Spectroscopy
Core Elective-2	Analytical Chemistry	<ul style="list-style-type: none">Analyze pH, conductivity, acidity, alkalinity and hardness of water.Determine the BOD and COD of water.
Core Elective-2	Pharmaceutical Chemistry	<ul style="list-style-type: none">On the completion of the course the student will be able toUnderstand the importance of pharmaceutical chemistry.
Core Elective-1	Industrial Chemistry	<ul style="list-style-type: none">On the completion of the course the student will be able toDo Basic chemical calculationsGet Knowledge about Material balance without chemical reaction
Core Elective-3	Nano Chemistry	<ul style="list-style-type: none">Understand the basic concept of nano chemistryGet knowledge about different types of nano materials
Core Elective-3	Green Chemistry	<ul style="list-style-type: none">To introduce the basics of Green ChemistryTo make the students familiar with the usage of green solvents and green catalysts in chemical reactions.
Core Elective-3	Chromatography	<ul style="list-style-type: none">Understand the basic concept of ChromatographyGet knowledge about Choice of Solvent Systems.



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Core Practical – 6	Gravimetric Estimation and Organic Preparations	<ul style="list-style-type: none">To enable the students to understand the various technique in gravity metrics taxationsTo make the students thorough in organic preparations
Core Practical- 7	Physical Chemistry Experiments	<ul style="list-style-type: none">To enable the students to understand the principles of physical chemistry experiments
		SEMESTER I (Commerce)
Core1	Principles of Accounting	<ul style="list-style-type: none">Students are able to prepare financial statement in accordance with appropriate standards.Students are able to prepare accounting information for planning and control for the evaluation of finance.
Core2	Business Organisation	<ul style="list-style-type: none">Students acquire the basic idea of scope of Business.Students develop awareness about the concept of Business and Profession.
Major	Professional English for Commerce and Management-I	<ul style="list-style-type: none">Students can understand the importance of reading for life.Students can reading dependently unfamiliar texts with comprehension.
Allied1	Business Economics	<ul style="list-style-type: none">Students are enabled to know about the significance of Business Economics.Students can develop the knowledge about analysis of consumption, demand, production, supply and cost.
		SEMESTER II
Core3	Financial Accounting	<ul style="list-style-type: none">Students can understand the concept of Consignment and Joint Venture.Students are exposed to the concept of foreign trade concerns.
Core4	Principles of	<ul style="list-style-type: none">Students can have a better understanding of planning and decision



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	Management	<ul style="list-style-type: none"> making. Students can get an idea about organization structure.
Allied2	Principles of Marketing	<ul style="list-style-type: none"> Students and develop an idea about new marketing and its diverse functions. Students may enhance their knowledge about the product planning and promotion.
		SEMESTER III
Core5	Business Accounting	<ul style="list-style-type: none"> able to learn the number of transactions occurred in the department account Able to find out the nature of expenses Incurred in the department account and its requirement.
Core6	Business Mathematics	<ul style="list-style-type: none"> To provide the students with basic knowledge of mathematical techniques in numbers, systems, and equations. To enable the students to learn logical ideas to find out practical solutions for the managerial problems.
Allied 3	Banking Technology	<ul style="list-style-type: none"> To make the students to learn banking system. To enable the student know the use of Ms Office.
NME	Principles of Accountancy	<ul style="list-style-type: none"> To enable the students to prepare and provide accounting information to the interested parties. To enhance the students with the knowledge of fundamental and technical concepts of accounting.
NME	Consumer Awareness	<ul style="list-style-type: none"> To create awareness regarding the intellectual property rights and consumer protection. To avail the knowledge of better quality of living as consumers.



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SkillBased	Entrepreneurship Skill Development	<ul style="list-style-type: none"> To enable the students to develop and strengthen the entrepreneurial quality. To make the students to know about business communication.
		SEMESTERIV -
Core7	Partnership Accounting	<ul style="list-style-type: none"> To enable the students to understand the nature and system of accounting followed in Partnership firm.
Core8	Business Statistics	<ul style="list-style-type: none"> To provide the students with basic knowledge of statistical techniques as are applicable business.
Allied 4	Human Resource Management	<ul style="list-style-type: none"> To make the students learn about the importance of human resource and office management.
NME	Financial Accounting	<ul style="list-style-type: none"> To make the students learn about the concept and role of Accounting and financial reporting in them marketing economy.
NME	Human Rights	<ul style="list-style-type: none"> To make the students to understand the basic concepts of human rights. To enable the students to learn about the relationship between individual ,group and national rights
Skill Based	Goods and Service Tax	<ul style="list-style-type: none"> To inculcate the applicability of Indirect Taxes and e-commerce in the students day today life.
		SEMESTERV
Core9	Corporate Accounting	<ul style="list-style-type: none"> To make the students to study the issue ,allotment and for feature of shares of companies.
Core10	:Cost Accounting	<ul style="list-style-type: none"> To acquire the basic knowledge of cost in business concerns. To understand the technique of cost control.
Core11	Business Law	<ul style="list-style-type: none"> To make the students to understand the definition of business law.
Core 12	Income Tax, Law and	<ul style="list-style-type: none"> To make the students to apply the basic concepts of income tax.



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	Practice-I	
Core13	Commerce	<ul style="list-style-type: none"> To enable the students apply the acquired knowledge Professional Competencies.
		SEMESTER VI
Core14	Company Accounts	<ul style="list-style-type: none"> To know the preparation of liquid at or's final statement of accounts. To prepare the final accounts of banking company and Holding Company.
Core15	Management Accounting	<ul style="list-style-type: none"> To familiarize the students with the basic management accounting concepts and their applications in managerial decision-making
Core16	Industrial Law	<ul style="list-style-type: none"> To acquaint knowledge on industrial relations frame working our country To study various rights and benefits available to the work men under the legislations.
Core17	Auditing	<ul style="list-style-type: none"> To know the importance of audit in commercial and non-commercial organizations.
Core 18	Income Tax Law and Practice-II	<ul style="list-style-type: none"> To impart the students of now the procedure for assessment and types of assessment.
Core 19	Application of Tally in Accounting	<ul style="list-style-type: none"> To impart practical knowledge regarding the concepts of Financial Accounting. To get knowledge on accounting software.
Practical I	Application of Tally in Accounting-Practical	<ul style="list-style-type: none"> To impart practical knowledge regarding the concepts of Financial Accounting. To get knowledge on accounting software.
		SEMESTER I
		B.Com (Corporate Secretaryship)
Core-1	PRINCIPLES OF ACCOUNTING	<p>After having completed this course the candidates are able</p> <ul style="list-style-type: none"> To prepare financial statements and identify the purposes of preparing the statements. To ascertain the financial position of Business.



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Core -2	BUSINESS ORGANISATION	After having completed this course the candidates are able 1. To understand the main working aspects of organizations as a part of society
Core	PROFESSIONAL ENGLISH FOR COMMERCE & MANAGEMENT - I	<ul style="list-style-type: none">After having completed this course the candidates are ableTo understand the main working aspects of organizations as a part of society
ALLIED – 1	COMPANY LAW I	<ul style="list-style-type: none">After having completed this course the candidates are ableTo identify the Legal duties and responsibilities of the officials of the company..To understand the rules and regulations to establish an enterprise.
Part IV	Environmental Studies	<ul style="list-style-type: none">To acquire conceptual knowledge on environment.To impart knowledge on safeguarding eco system.To make the students to know about the various Pollution.
		SEMESTER II
CORE -3	FINANCIAL ACCOUNTING	<ul style="list-style-type: none">After having completed this course the candidates are ableTo prepare accounts for Non-Trading Concerns.. To describe the main elements of financial accounting information's namely, assets, liabilities, income, expenditures, profits and losses.
CORE -4	PRINCIPLES OF MANAGEMENT	<ul style="list-style-type: none">To identify and evaluate social responsibility and ethical issues involved in Business situations.To practice the functions of management, namely planning, organizing, directing and controlling.
ALLIED-II	COMPANY LAW II	<ul style="list-style-type: none">After having completed this course the candidates are ableTo deal with Securities Market.To identify the cost-effective investment methods.



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



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CORE –7	PARTNERSHIP ACCOUNTING	<ul style="list-style-type: none">To enable the students to understand the nature and system of accounting followed in Partnership firm.
CORE – 8	BUSINESS STATISTICS	<ul style="list-style-type: none">To provide the students with basic knowledge of statistical technique as are applicable to business.<ul style="list-style-type: none">To enable the students to apply statistical techniques for quantification of data in business.
Skill based II	CAPITAL MARKET AND CORPORATE FINANCE	<ul style="list-style-type: none">To understand the meaning and importance of Financial and Capital markets.To create an interest among students towards stock market investment.To obtain knowledge on Securities analysis.
Allied - IV	DYNAMICS OF ENTREPRENEURSHIP DEVELOPMENT	<ul style="list-style-type: none">To develop and strengthen the entrepreneurial quality among the studentsTo know the sources of help and support available for starting a small-scale Industry.To obtain knowledge about starting new business.
NON – MAJOR ELECTIVE -II	HUMAN RIGHTS	<ul style="list-style-type: none">Be aware of human rights.Understand the rights and characteristics of human rights.
NON – MAJOR ELECTIVE - II	ENTREPRENEURSHIP DEVELOPMENT	<ul style="list-style-type: none">The students can be familiar with,The factors of entrepreneurial development.The types of Entrepreneurship
		SEMESTER V
CORE – 9	CORPORATE ACCOUNTING	<ul style="list-style-type: none">To make the students to study the issue, allotment and forfeiture of shares of companies.
CORE – 10	COST	<ul style="list-style-type: none">To acquire the basic knowledge of cost in business concerns.



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	ACCOUNTING	<ul style="list-style-type: none"> To understand the techniques of cost control.
: CORE -11	BUSINESS LAW	<ul style="list-style-type: none"> To make the students to understand the definition of business law. To enable the students to study the scope and boundaries of business law.
: CORE – 12	INCOME TAX LAW & PRACTICE I	<ul style="list-style-type: none"> The student can be able to understand the basic concepts of capital and revenue expenditures and incomes be able to know about the taxable entities in detail
: Core -13	COMMERCE FOR COMPETITIVE EXAMINATIONS & PROJECT	<ul style="list-style-type: none"> The students can be able to understand the basic concepts of capital and revenue expenditures and incomes
Core -13	PROJECT	<ul style="list-style-type: none"> To make the students to study the issue, allotment and forfeiture of shares of companies.
Skill Based Common	PERSONALITY DEVELOPMENT	<ul style="list-style-type: none"> To know the preparation of liquidator's final statement of accounts.
		SEMESTER VI
Core - 14	COMPANY ACCOUNTS	<ul style="list-style-type: none"> To prepare the final accounts of banking company and Holding Company. To train the students to prepare final accounts under double account system and Human Resource Accounting.
: Core - 15	MANAGEMENT ACCOUNTING	<ul style="list-style-type: none"> The students can understand fundamentals of Management accounting Principles. know about Management accounting and Financial accounting.
Core – 16	INDUSTRIAL LAW	<ul style="list-style-type: none"> The students can ,



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		<ul style="list-style-type: none"> Be aware of The Factories Act. Gain an idea on approval, licensing and registration of factories.
Core - 17	AUDITING	<ul style="list-style-type: none"> The students can understand, The concept of auditing. The process of audit program me and audit working papers.
Core - 18	INCOME TAX LAW & PRACTICE II	<ul style="list-style-type: none"> To impart the students to know the procedure for assessment and types of assessment. To enable the students to understand the computation of tax liability of individuals
Core -19	APPLICATION OF TALLY IN ACCOUNTING	<ul style="list-style-type: none"> To impart practical knowledge regarding the concepts of Financial Accounting. To get knowledge on accounting software.
Core -21	APPLICATION OF TALLY IN ACCOUNTING - PRACTICAL	<ul style="list-style-type: none"> To impart practical knowledge regarding the concepts of Financial Accounting.
		Semester I(PG)
: Core - 1	MANAGEMENT ACCOUNTING	<ul style="list-style-type: none"> After having completed this course the candidates are able To analyze the relationship between Cost, Volume & Profit analysis. To prepare functional and operating budgets.
Core – 2	ADVANCED BUSINESS STATISTICS	<ul style="list-style-type: none"> After having completed this course the candidates are able To communicate quantitative data.. To create quantitative models to solve problems.
Core- 3	MANAGEMENT CONCEPTS AND ORGANISATIONAL BEHAVIOUR	<ul style="list-style-type: none"> After having completed this course the candidates are able To analyze the behavior of individuals and groups in organizations in terms of organizational behavior models
Core - 4	MANAGEMENT INFORMATION SYSTEM	<ul style="list-style-type: none"> After having completed this course the candidates are able To perform the managerial decision making. To impart practical knowledge in handling computers.



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Core - 5	MODERN MARKETING MANAGEMENT	<ul style="list-style-type: none"> After having completed this course the candidates are able To formulate a marketing plan like marketing objectives, marketing mix, marketing strategies etc. To inscribe a business plan for an entrepreneurial start up venture.
		SEMESTER II
Core - 6	: FINANCIAL MANAGEMENT	<ul style="list-style-type: none"> After having completed this course the candidates are able To understand the overall importance of finance functions and management functions. To give advice to the management regarding expansion of business.
Core - 7	CORPORATE LEGAL FRAMEWORK	<ul style="list-style-type: none"> After having completed this course the candidates are able. To acquire practical knowledge of Business and Commercial Law. To understand the legal environment of Business.
Major - 8	OPERATIONS RESEARCH	<ul style="list-style-type: none"> To solve the large scale integer programming problems. To identify the optimal operational research models.
: Major - 9	BUSINESS ENVIRONMENT	<ul style="list-style-type: none"> After having completed this course the candidates are able To understand the government policy and its impact on business environment. To identify and apply regularities in Insurance Industry.
Core - 10	RETAIL MANAGEMENT	<ul style="list-style-type: none"> After having completed this course the candidates are able To analyze the performance of Retail Industry. To identify the design, implementation and assessment of retailing strategies.
		SEMESTER III
Core - 11	ADVANCED CORPORATE ACCOUNTING	<ul style="list-style-type: none"> The students can understand, Understand the factors affecting valuation of goodwill.
Core - 12	TAXATION AND TAX PLANNING	<ul style="list-style-type: none"> The students can , Understand the basic concept of Income Tax Understand canons of taxation.



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Core – 13	RESEARCH METHODOLOGY	<ul style="list-style-type: none"> To make the students to plan and understand the research. To make the students to understand various research design, sampling design and techniques
Core - 14	SECURITY ANALYSIS AND PORT FOLIO MANAGEMENT	<ul style="list-style-type: none"> The students can, Be aware of meaning and importance of investment. Gain knowledge on investment attributes.
Core -15	STRATEGIC MANAGEMENT	<ul style="list-style-type: none"> The students can, Know the meaning of corporate strategic planning. Identify the vision and mission of the firm.
		SEMESTER IV
Core - 16	ADVANCED COST ACCOUNTING	<ul style="list-style-type: none"> The students can, Prepare cost sheet. Identify the need for quantity level of material in business.
Core -17	COMPUTERIZED ACCOUNTING PACKAGES- TALLY ERP 9	<ul style="list-style-type: none"> The students can, Identify the new features of Tally9.0. Acquire the practical knowledge on Tally ERP9.
Practical 1	COMPUTERIZED ACCOUNTING PACKAGES- TALLY ERP 9	<ul style="list-style-type: none"> Identify the new features of Tally9.0. Acquire the practical knowledge on Tally ERP9.
Core -18	HUMAN RESOURCE MANAGEMENT	<ul style="list-style-type: none"> The students can, Identify the functions of human resource manager. Be aware of the strategic human resource management.
Core -19	FINANCIAL SERVICES	<ul style="list-style-type: none"> The students can, Understand the meaning of financial services. Know the players in the financial market.
Core -20	PROJECT	<ul style="list-style-type: none"> Identify the functions of human resource manager. Be aware of the strategic human resource management.



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		SEMESTER I B.Sc., Computer Science
Core 1	Programming in C	The students can 1. Learn to compile, and execute Java programs, basic data types and control flow constructs.
core 1	Professional English for Physical sciences I	<ul style="list-style-type: none">To develop the language skills of students by offering adequate practice in professional contexts.To enhance the lexical, grammatical and socio-linguistic and communicative competence of first year physical sciences students
Allied-I	Digital Design and Hardware Components	<ul style="list-style-type: none">The students canLearn Boolean algebraKnow arithmetic operations
Core Practical 1	Programming in C Practicals	<ul style="list-style-type: none">To develop skills in developing algorithms through B.Sc. programming language C.To explore the features of C by applying sample programs.
Allied Practical – 1	Computer Basics Practicals	<ul style="list-style-type: none">To develop skills in office automation by applying sample programs.
		SEMESTER II
Core Paper- 2	Object Oriented Programming using C++	<ul style="list-style-type: none">To impart adequate knowledge on the need problem solving techniques.To develop programs using like control statements, Arrays and Strings.To understand about the dynamic memory allocation using pointers.
: Allied 2	Fundamentals of Mathematics	<ul style="list-style-type: none">To apply basic concepts for clear understanding of mathematical principles. To solve practical problems.
Core Practical 2	C++ Programming Practicals	<ul style="list-style-type: none">To gain knowledge about the Object Oriented Programming Concepts and C++ streams, inheritance, overloading of operators, functions, constructors, file handling and templates concept of C++ programming by implementing sample programs.
Allied Practical 2	Open Source Practicals	<ul style="list-style-type: none">To understand the features of Linux utilities and shell scripting language.
Core 3	Core Java	<ul style="list-style-type: none">After having learnt this unit, The students canunderstand the Data types and how to declare variables and to create arrays.



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		SEMESTER III
Core 4	Fundamentals of Computer Architecture	<ul style="list-style-type: none"> To gain knowledge about the architecture of computer To understand the concepts of CPU, ALU Design, I/O Instruction format and different processors.
Skill Based Core theory	Internet Programming	<ul style="list-style-type: none"> The students can Explain how the client-server model of Internet programming works. compare the advantages and disadvantages of the core Internet protocols.
: Allied 3	Data Structures	<ul style="list-style-type: none"> The students can develop knowledge of Basic data Structures for Storage and retrieval of Ordered/Unordered data.
NME	Fundamentals of Programming Design and Internet	<ul style="list-style-type: none"> The student can: realize the use of computer programs. Demonstrate the problem solving skills by developing algorithms to solve in a computer program.
NME	Programming in C	<ul style="list-style-type: none"> understand the concept of computer programming language. define data types and use them in simple data processing applications.
Core Practical 3	Java Programming Practicals	<ul style="list-style-type: none"> understand the concept of computer programming language. define data types and use them in simple data processing applications.
Allied Practical 3	: Data Structure Practicals	<ul style="list-style-type: none"> develop knowledge of Basic data Structures for Storage and retrieval of Ordered/Unordered data.
		SEMESTER IV
Core 6	Visual Basic	<ul style="list-style-type: none"> The students can code programs and develop application variables using Visual basic
Core – 6	Operating System	<ul style="list-style-type: none"> Students can Understand the different services of Operating system
Core 7	Programming with PHP	<ul style="list-style-type: none"> The students can understand the features of PHP manipulate and compare variables.



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Skill based theory	Information Security	<ul style="list-style-type: none"> The students can understand the basics of information Security and its breaches identify the critical information and the extent it should be secured
NME	: Fundamentals of Computer	<ul style="list-style-type: none"> The students can have a basic understanding of personal computers and their operations.
NME	: HTML	<ul style="list-style-type: none"> The students can define HTML and common terminology related to HTML.
Core Practical 4	Visual Basic Practicals	<ul style="list-style-type: none"> The students can have a basic understanding of personal computers and their operations.
Allied Practicals 4	Programming with PHP Practicals	<ul style="list-style-type: none"> understand the features of PHP manipulate and compare variables.
: Common	Digital Learning Tools	<ul style="list-style-type: none"> Develop deeper insights into the dynamics of E -content creation Produce a E -module on some concept on their discipline
SEMESTER V		
Core 9	Software Engineering	<ul style="list-style-type: none"> The students can define various software application domains and remember different process model used in software development.
Core Paper -10	Relational Database Management System	<ul style="list-style-type: none"> The students can identify the importance of the DBMS over file handling system. understand different views on the DBMS.
Core 11	ASP.NET Programming	<ul style="list-style-type: none"> The students can understand .NET Framework and Common Language Runtime (CLR) acquire knowledge about C# and Dot Net languages
: Core Elective- 1	Cloud Computing	<ul style="list-style-type: none"> The students can Articulate the History, characteristics, advantages, and Disadvantages of cloud Computing.
: Elective	Machine Learning	<ul style="list-style-type: none"> The students can



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		<ul style="list-style-type: none"> define various software application domains and remember different process model used in software development.
: Elective 1	: Mobile Computing	<ul style="list-style-type: none"> The students can identify the Components of a wireless Communication System explain the principles and theories of mobile computing technologies
		SEMESTER VI
Core Practical 7	RDBMS Practicals	<ul style="list-style-type: none"> The students can define various software application domains and remember different process model used in software development.
Core Project 1	Computer Science for Competitive Examination and Project	<ul style="list-style-type: none"> The students can have a basic understanding of personal computers and their operations.
Core	Microprocessor	<ul style="list-style-type: none"> The Students can Describe architecture of a microprocessor system Understand and classify instruction of 8085 microprocessor
Core 13	Data communication and Networks	<ul style="list-style-type: none"> The students can know the basic steps of network. establish transmission channel.
Core 14	Data Mining	<ul style="list-style-type: none"> The students can demonstrate an understanding of the importance of data mining. effectively identify the sources of data and process it for data mining
Core 15	Computer Graphics and Visualization	<ul style="list-style-type: none"> To develop skills and knowledge about computer graphics and Visualization To understand 2D & 3D Transformations
Elective 2	Software Testing	<ul style="list-style-type: none"> The students can understand the psychology of testing. define the economics of testing.
Core Elective- 2	Internet of Things	<ul style="list-style-type: none"> To gain knowledge about the fundamentals of Internet of Things. To get insight of real life applications .



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		<ul style="list-style-type: none">To learn about the M2M concepts.
Elective 2	Cryptography and Network Security	<ul style="list-style-type: none">To understand the fundamentals of cryptography and its applications.
Core Practical 6	Graphics and Multimedia Practicals	<ul style="list-style-type: none">To gain knowledge about the fundamentals of Internet of Things.To get insight of real life applications .
Core Practicals 5	ASP.NET Practicals	To gain knowledge about the fundamentals of Internet of Things. 1. To get insight of real life applications .
		SEMESTER I(PG)
Core 1	Design and Analysis of Algorithm	<ul style="list-style-type: none">To solve problems using the concepts of algorithmsTo understand the network structures thro B.Sc.,h trees and graphs.
Core 2	Advanced Java Programming	<ul style="list-style-type: none">The students canlearn how to implement object oriented design with Javadesign a program standalone Java application.
Core 3	: Mathematical Foundations for Computer Science	<ul style="list-style-type: none">To apply basic concepts for clear understanding of mathematical logic, set theory, matrices, graph theory and to solve practical problems
Core 4	Object Oriented Systems Development	<ul style="list-style-type: none">The students canknow the methodology developmentrespond with the messagesdescribe results of the project
Core 5	Distributed Computing	<ul style="list-style-type: none">The students cangain the knowledge about Distributed Computing Systemknow about issues in designing a distributed computing systemunderstand the basics of network technologies.
Core Practical 1	Algorithm Practicals using C++	<ul style="list-style-type: none">To understand the basis of algorithmic concepts and to implement them.
Core Practical 2	Advanced Java Practicals	<ul style="list-style-type: none">To explore the benefits of language concepts using Java.
		SEMESTER –II
Core 6	Advanced Database Management System	<ul style="list-style-type: none">The students canunderstand basic concept of relational data model.



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		<ul style="list-style-type: none"> describe the fundamental elements of RDBMS.
Core 7	: Android programming	<ul style="list-style-type: none"> The students can learn about some of android development basics. gain the knowledge of hardware and software tools.
Core 8	Security in Computing	<ul style="list-style-type: none"> The students can learn about the cryptography techniques. able to Analyse the types of ciphers. understand about terminology in cryptography
Core 9	Web Application Development	<ul style="list-style-type: none"> To understand the basic structure of .Net and to implement the query string, cookies, controls. To store the data's in MS Access.
Elective 1	: Data Mining and Warehousing	<ul style="list-style-type: none"> The students can understand the concept of Data Mining and Data warehouse. understand patterns, correlation, market and competition trends .
Elective 1	Multimedia System	<ul style="list-style-type: none"> The students can understand the technical aspect of multimedia systems. develop various multimedia systems applicable in real time.
Elective 1	Cloud Computing concept and technology	<ul style="list-style-type: none"> The Students can implement service with a quality control from project imitation to protection. manage workloads by radically transforming traditional computing to make it more scalable.
Core Practical 3	: Android Practicals	<ul style="list-style-type: none"> To understand concepts of Android Programming. To develop android application.
Core Practical 4	Web Application Practicals	<ul style="list-style-type: none"> To understand concepts of Android Programming. To develop android application.
		SEMESTER III
Core 10	Digital Image Processing	<ul style="list-style-type: none"> To understand basic concepts of image processing To use built-in image processing functions in MATLAB and implement various operations on images



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



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Core	Recent Research Topics In Computing	<ul style="list-style-type: none"> Provides a basic exposition to the goals and methods of Soft Computing and Cloud Computing Explains a brief knowledge about mobile computing Explain principles of Network Security
Elective	Internet of Things	<ul style="list-style-type: none"> Explains the basic components of IOT. Able to develop web services to access/control IoT devices. Design a portable IoT using RaspberryPi
Elective	Advanced Digital Image Processing	<ul style="list-style-type: none"> Able to apply image processing techniques in both the spatial and frequency domains. Design image analysis techniques in the form of image segmentation and to evaluate the methodologies for segmentation.
Elective	Data Mining And Warehousing	<ul style="list-style-type: none"> Interpret the contribution of data warehousing and data mining to the decision-support level of organizations Evaluate different models used for OLAP and data pre-processing
Elective	Machine Learning	<ul style="list-style-type: none"> Describe the various machine learning concepts and models Familiarization of Neural Networks Applications
Elective	Cloud Computing	<ul style="list-style-type: none"> Understanding the key dimensions of the challenges of cloud computing Assessment of the economics, financial and technological implications for selecting cloud computing for own organizations
		SEMESTER I Information Technology
Core – 1	Programming in C	<ul style="list-style-type: none"> The students can Learn to compile, and execute Java programs, basic data types and control flow constructs.
Core	Professional English for Physical Sciences – I	<ul style="list-style-type: none"> Recognize their own ability to improve their own competence in using the language Use language for speaking with confidence in an intelligible and




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		acceptable manner <ul style="list-style-type: none"> Understand the importance of reading for life
Allied-1	Digital Design and Hardware Components	<ul style="list-style-type: none"> To do digital building blocks (such as memory chips, arithmetic circuits etc.) To interface with processors and computers To understand basics knowledge about digital ICs and digital systems.
Core Practical -1	Programming in C Practicals	<ul style="list-style-type: none"> To make the student learn a programming language. To learn problem solving techniques.
Allied Practical -1	Office Automation Practicals	<ul style="list-style-type: none"> To familiarize the students in preparation of documents and excel sheet w automation tools. To impact the knowledge and usage of various Microsoft tools such as W Excel, Power point and Access.
SEMESTER II		
Core - 2	Object Oriented Programming Using C++	<ul style="list-style-type: none"> The students can Learn to compile, and execute C++ programs Understand the object oriented class structures with parameters, constructors, utility and calculations methods.
Allied - 2	Fundamentals of E-Commerce	<ul style="list-style-type: none"> Students can Understand the nature and current trends in E-commerce. Recognize the business impact and potential of E-commerce. Understand the importance of advertising and marketing in the field of E-commerce.
Core Practical -2	Object Oriented Programming Using Practicals	<ul style="list-style-type: none"> To practice the fundamental programming methodologies in the C++ programming language. To code, document, test, and implement a well-structured, robust computer program using the C++ programming language.
Allied Practical -2	Shell Programming Practicals	<ul style="list-style-type: none"> To understand the basic set of commands and utilities in Linux systems. To learn the important Linux library functions and system calls.
SEMESTER III		
Core -3	Information Technology And HTML	<ul style="list-style-type: none"> Students can Know the basic knowledge of IT industry



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		<ul style="list-style-type: none"> Learn about input and output devices Understand the hierarchy of Memory system
Core -4	Data Structures	<ul style="list-style-type: none"> The Students can Understand the basic data structures. Understand the basic search and sort algorithms.
Allied – 3	Management Information System	<ul style="list-style-type: none"> Students can Understand and apply strategic planning in different functional areas of management Analyze different characteristics of MIS
SB Practical -1	DeskTop Publishing Practicals	<ul style="list-style-type: none"> To Identify desktop publishing terminology and concepts. To Manipulate text and graphics to create a balanced and focused layout. To Create flyers, brochures, and multiple page documents.
Non-Major Elective	Essentials of Information Technology	<ul style="list-style-type: none"> Students can Know about the role of Information Technology in industry
Non-Major Elective	Desk Top Publishing and Multimedia	<ul style="list-style-type: none"> To Identify desktop publishing terminology and concepts. To Manipulate text and graphics to create a balanced and focused layout.
Core Practical -3	Data Structure Practicals	<ul style="list-style-type: none"> To design and analyses the time and space efficiency of the data structure. To identify the appropriate data structure for given problem. To have practical knowledge on the applications of data structures.
: Allied Practical - 3	HTML Practicals	<ul style="list-style-type: none"> To create a webpage using all input controls. To design a webpage with hyperlink. To design a webpage with frames, table and list etc
		SEMESTER IV



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Core-5	Java Programming	<ul style="list-style-type: none">Students canIllustrate basic programming concepts such as program flow and syntax of a high-level general language.
Core Paper-6	Operating System	<ul style="list-style-type: none">To master structures and functions of operating systems.To understand the concept of scheduling.
Allied-4	Operations Research and Numerical Analysis	<ul style="list-style-type: none">Students canSolve the problem using North West Corner's ruleSolve the Problem using Matrix minima method
SB Practical-2	Animation Practicals	<ul style="list-style-type: none">Students canLearn about how to draw a flowchart for simple mathematical problemLearn about of how the flowchart is computed
Non-Major Elective	Basic Programming Design	<ul style="list-style-type: none">Students canAcquire the basic knowledge about problem solving stepsUnderstand about program writing and debugging
: Non-Major Elective	Web Graphic Design	Student can Learn animation frame by frame Understand the key frames and Timeline.
Core Practical - 4	Java Programming Practicals	<ul style="list-style-type: none">To understand how to use Java APIs for program development.To learn how to extend Java classes with inheritance and dynamic binding.To learn how to use exception handling in Java applications.
: Allied Practical-4	Android Programming Practical	<ul style="list-style-type: none">Design and develop user interface for the Android platform.Save state information across important operating system events.To demonstrate the skills of using Android software development tools.
Common	Digital Learning Tools	<ul style="list-style-type: none">Understand the need and significance of E-Content in the context of Digital Learning Initiative.Develop deeper insights into the dynamics of E-content creationProduce an e-Module on some concept in their discipline.
SEMESTER V		



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Core Paper- 7	Software Engineering	<ul style="list-style-type: none">• The students can• Acquire strong knowledge in developing software process.• Get the knowledge of software development process models.
Core Paper -8	Relational Database Management System	<ul style="list-style-type: none">• The students can• identify the importance of the DBMS over file handling system.• understand different views on the DBMS.
Core - 9	Wireless Application Protocol	<ul style="list-style-type: none">• Students can• Analyze the contribution of Wireless Communication networks to overall technological growth• Account the architecture of WAP and its transaction.• Understand and apply Wireless Application Protocol used for wireless and mobile access using different transport systems.
Core Elective -1	Cloud Computing	<ul style="list-style-type: none">• Student can• Able to understand Cloud Computing• Memorize the different Cloud Service and deployment models
Core Elective- 1	Computer Graphics	<ul style="list-style-type: none">• Students can• Understand the basics of computer graphics, different graphics systems and applications of computer graphics
Core Elective-1	Internet Security	<ul style="list-style-type: none">• Students can• Depict security issues in Internet• Protect any network from the threats in the world• Familiarize with Security Plan in Internet
: Core Practical-5	Relational Database Management System Practicals	<ul style="list-style-type: none">• To have a broad understanding of database concepts and database management system software• To write SQL commands to create tables and indexes, insert/update/delete data, and query data in a relational DBMS.
Core Project	Information Technology for Competitive Examinations & Project	<ul style="list-style-type: none">• Allow students to utilizes problem solving skills• To provide detailed knowledge about core subjects
		SEMESTER VI



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: Core-10	Data Communications and Networking	<ul style="list-style-type: none"> Students can Understand the rudiments of how computers communicate Account the architecture of a number of different networks
Core -11	Web Programming using PHP	<ul style="list-style-type: none"> Students can Learn about basics of Internet and web browsers Know about Different types of websites according to creator's need
Core-12	NET Programming	<ul style="list-style-type: none"> Students can Set up a programming environment for ASP.net programs. Configure an asp.net application
: Core -13	Machine Learning using Python	<ul style="list-style-type: none"> Students can Recognize the characteristics of machine learning that make it useful to real-world problems.
Core Elective -2	Enterprise Resource Planning	<ul style="list-style-type: none"> Students can Understand the basic concepts of ERP Discuss the benefits of ERP Acquire the knowledge of supply chain management
Core Elective- 2	Internet of Things	<ul style="list-style-type: none"> The students can Apply the working, characteristics and limitations of IoT. Understand the impact of technologies. Know the concept and the designs.
Elective -2	Cryptography and Network Security	<ul style="list-style-type: none"> The students can know the concepts of X.800security architecture of OSI understand the types of Security threats and attacks.
Core Practical-6	Python Programming Practicals	<ul style="list-style-type: none"> To acquire programming skills in core Python. To acquire Object Oriented Skills in Python To develop the skill of designing Graphical user Interfaces in Python
Core Practical -7	Web Programming using PHP Practicals	<ul style="list-style-type: none"> To develop basic programming skills using Client Side and Server Side Scripting To provide students with a deep, critical and systematic understanding



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		of most significant technologies for developing web applications
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