

Sri Ramakrishna Degree College(Autonomous):Nandyal

Course Outcomes(COs)

Undergraduate Courses			
Class	Course	Topic	Course Outcome
B.A, B.Com, B.Sc , B.B.A and B.C.A	English	General English	<ul style="list-style-type: none"> • Use grammar effectively in writing and speaking. • Demonstrate the use of good vocabulary • Demonstrate an understating of writing skills • Acquire ability to use Soft Skills in professional and daily life. • Confidently use the tools of communication skills
		Reading & Writing Skills	<ul style="list-style-type: none"> • Use reading skills effectively • Comprehend different texts • Interpret different types of texts • Analyze what is being read • Build up a repository of active vocabulary • Use good writing strategies • Write well for any purpose • Improve writing skills independently for future needs
		Conversational Skills	<ul style="list-style-type: none"> • Participate confidently in any social interaction • Face any professional discourse • Demonstrate critical thinking • Enhance conversational skills by observing the professional interviews
	Telugu	Pracheena Kavithvamu,Natakamu	<ul style="list-style-type: none"> • Familiarizes to poets like pothana and koravi Goparaju and analyses the uniqueness of their poetry. • Understands all the aspects of our mother tongue and its importance for our existence. • Becomes familiarised to different styles of writers and different dialects of the language.
		Old poetry, Modern Poetry and Story, Navala	<ul style="list-style-type: none"> • Understands qualities of prabandha yugam and effect of the luxurious living of 16th century/Sri Krishnadevaraya yugam. • Appreciates Telugu literature and understands the reflection of social

			issues in writings of modern poetry and short stories.
	Sanskrit	Prose, Poetry and Grammar-I	<ul style="list-style-type: none"> • Develops Listening, Reading, Speaking and Writing skills in Sanskrit • Appreciates ancient Sanskrit literature and its importance • Recites Slokas from old literature • Recites Sabdas and Dhaathus in Sanskrit grammar
		Drama, Upanishad, prose, Alankaras, of Sanskrit Literature and Grammar	<ul style="list-style-type: none"> • Develops Listening, Reading, Speaking and Writing skills in Sanskrit • Appreciates ancient Sanskrit literature and its importance • Knows about Sanskrit Dramas and Upanishads • Knows about alankaras such as Upama, Ananvaya, Uthpreksha, etc. • Improves in grammar and vocabulary
B.A	History	Ancient indian History & Culture	<p>Identify and define various kinds of sources and understand how history books are shaped</p> <ul style="list-style-type: none"> <input type="checkbox"/> Compare and contrast various stages of progress from IVC to Vedic age and analyze the Jain, Buddhist and Vedic faiths <input type="checkbox"/> Increase the awareness and appreciation of Transition from Territorial States to Emergence of Empires <input type="checkbox"/> Analyze the emergence of the Mauryan and Gupta empires during the —classical age in India <input type="checkbox"/> Evaluate the key facets of ancient society, polity and culture in South India—the feudalism, and the rise of technology and commerce. <input type="checkbox"/> Critically examine the nature of monarchic rule and develop an comprehensive understanding of cultural evolution during ancient period <input type="checkbox"/> Visualize where places are in relation to one another through map pointing
		Medieval indian history & culture	<p>Understand the socio, economic and cultural conditions of medieval India</p> <ul style="list-style-type: none"> <input type="checkbox"/> Describe the advent of Islam in India and study the traces of political and cultural

			<p>expansion of Turks & Afghans</p> <ul style="list-style-type: none"> <input type="checkbox"/> Explain the Administration and art and architecture of Vijayanagar Rulers, Mughals and also analyse the rise of the Marathas and the contribution of Shivaji <input type="checkbox"/> Evaluate the establishment of the British rule in India and understand the dangerous consequences disunity at all levels <input type="checkbox"/> Analyze the emergence of composite culture in Indian <input type="checkbox"/> Visualize where places are in relation to one another through map pointing
		Modern Indian History & Culture	<p>Unearth the true nature of the British rule and its disastrous impact on Indian economy and society</p> <ul style="list-style-type: none"> <input type="checkbox"/> Gauge the disillusionment of people against the Company's rule even during the early 19th century <input type="checkbox"/> Assess the causes and effects of Reformation movements and also inspire the public to overthrow inequalities of the present day society <input type="checkbox"/> Rise above petty parochial issues after understanding the sacrificial saga of freedom
		History & Culture of Andhra	<p>Interpret social and political and cultural transformation from medieval to modern Andhra</p> <ul style="list-style-type: none"> <input type="checkbox"/> Relate key historical developments during medieval period occurring in coastal Andhra and Telangana regions and analyze socio - political and economic changes under QutbShahi rulers <input type="checkbox"/> Understand gradual change, or change in certain aspects of society in Andhra, rather than rapid or fundamental changes <input type="checkbox"/> Explain how the English East India Company became the most dominant power and outline the impact of colonial policies on different aspects in Andhra <input type="checkbox"/> Outline the issues related to caste, women, widow remarriage, child marriage, social reforms and the laws and policies of colonial administration towards these issues <input type="checkbox"/> Take pride in the non-violence struggle for

			<p>Indian Independence and relate the importance of peace in everyday life</p> <ul style="list-style-type: none"> <input type="checkbox"/> Apply the knowledge of the regional history to understand the regional, linguistic and other cultural aspirations of the present day society <input type="checkbox"/> Visualize where places are in relation to one another through map pointing
		History Of Modern World	<p>Demonstrate advanced factual knowledge of world histories, politics, and cultures</p> <ul style="list-style-type: none"> <input type="checkbox"/> Assess and appraise the developments in art, literature, and society during the Renaissance and utilize content knowledge of the Reformation and Counter Reformation to make predictions about the evolution of Christianity in Europe and Abroad <input type="checkbox"/> Evaluate the causes for the Glorious Revolution and American Revolution and identify the background for the evolution of human rights movement <input type="checkbox"/> Understand the main events of the French Revolution and its significance in the shift in European culture from Enlightenment to Romanticism <input type="checkbox"/> Think how Russia's traditional monarchy was replaced with the world's first Communist state. <input type="checkbox"/> Know how the world wars affected people all over the world and the destruction they caused <input type="checkbox"/> Develop the intellectual curiosity and habits of thought that will lead to life-long learning and continued engagement with European history, literature, culture, languages, and current affairs and acquire advanced international and intercultural competency through coursework in international studies <input type="checkbox"/> Visualize where places are in relation to one another through map pointing

B.A	Economics	Microeconomic Analysis	<p>Remembers and states in a systematic way (Knowledge)</p> <ol style="list-style-type: none"> a. the differences between microeconomic analysis and macroeconomic analysis b. various laws and principles of microeconomic theory under consumption, <p>2. Explains (understanding)</p> <ol style="list-style-type: none"> a. various terms and concepts relating to microeconomic analysis with the help of examples of real life b. consumer's equilibrium and consumer's surplus using indifference curve analysis. c. various laws and principles of consumption, production, and income distribution d. determination of price and output discriminating different market conditions in short term and long term <p>3. Critically examines using data and figures (analysis and evaluation)</p> <ol style="list-style-type: none"> a. various laws and principles of microeconomic analysis and market conditions b. application of the concept of demand elasticity and its relation with Average and Marginal Revenue c. the relationship between average and marginal cost/revenue both in long term and <p>4. Draws critical diagrams and graphs to explain and examine the application of various laws and principles of microeconomic analysis</p>
		Macroeconomic Analysis	<p>Remembers and states in a systematic way (knowledge)</p> <p>Various concepts, definitions, laws and principles of macroeconomic theory with Reference to income, employment, money, banking and finance</p> <p>2. Explains (understanding)</p> <ol style="list-style-type: none"> a. the difference between various concepts and components of national income with illustrations and methods of measuring national income b. various terms, concepts, laws and principles, theories relating to income, employment, consumption, investment, money, price-level and phases of trade cycles c. functions of commercial banks and central bank, creation and control of credit

			<p>3. Critically examines using data and figures (analysis and evaluation)</p> <ol style="list-style-type: none"> a. in order to understand the interrelationship between various components of national income b. the theories of macroeconomics with reference to their assumptions, implications and applicability c. Empirical evidences of Consumption and Investment Functions and factors influencing them <p>4. Draws critical formulae, diagrams and graphs.</p> <ol style="list-style-type: none"> a. consumption and investment functions; concepts of multiplier and accelerator b. price indices, inflation and trade cycles
		Development Economics	<p>Remembers and states in a systematic way (Knowledge)</p> <p>Various concepts and definitions and indicators relating to economic growth and Development including recent developments</p> <p>2. Explains (understanding)</p> <ol style="list-style-type: none"> a. Distinction between growth and development with examples c. Characteristics of developing and developing economies and distinction between the two d. factors contributing to development, Choice of Techniques and a few important models and strategies of growth <p>3. Critically examines using data and figures (analysis and evaluation)</p> <ol style="list-style-type: none"> a. the theoretical aspects of a few models and strategies of economic growth b. role and importance of various financial and other institutions in the context of India's economic development <p>4. Draws critical diagrams and graphs.</p> <ol style="list-style-type: none"> a. to explain the models and strategies b. to highlight empirical evidences to support the strategies
		Economic Development- India and Andhra pradesh	<p>Remembers and states in a systematic way (Knowledge)</p> <ol style="list-style-type: none"> a. leading issues of Indian economic development with reference to potential for growth, obstacles and policy responses b. Objectives, outlays and achievements of economic plans and growth strategies <p>2. Explains (understanding)</p> <ol style="list-style-type: none"> a. Available Resources, demographic issues,

			<p>general problems of poverty and unemployment and relevant policies</p> <p>b. Sector specific problems, remedial policies and their effectiveness relating to Agriculture and Industrial Sectors of Indian and AP economy and infrastructure issues of AP economy</p> <p>c. Indian Tax system, recent changes, issues of public expenditure and public debt, recent finance commissions and devolution of funds</p> <p>d. Major issues of economic development of Andhra Pradesh after bifurcation and Central assistance</p> <p>3. Critically examines using data and figures (analysis and evaluation)</p> <p>a. Leading issues of current importance relating to India and AP economy, major policies and programmes</p> <p>b. Covid– 19 and its impact on Indian economy</p> <p>4. Uses official statistical data and reports including tables and graphs</p> <p>a. To explain the achievements of Indian economy with reference to the objectives of planning and policy and make critical evaluation</p>
		<p>Statistical Methods For Economics</p>	<p>Remembers and states in a systematic way (Knowledge)</p> <p>a. the definitions, terms and their meaning relating to statistical methods</p> <p>b. various formulae used to measure central tendency, correlation regression and Indices</p> <p>2. Explains (understanding)</p> <p>a. Importance of statistics and its applications</p> <p>b. The method of classification of primary data</p> <p>c. Uses of Correlation and Regression analysis, time series and index numbers in economic analysis</p> <p>3. Analyses and solves using given data and information (analysis and evaluation)</p> <p>a. different kinds of statistical problems using various principles and formulae relating to central tendency, correlation, regression, time series and indices</p> <p>b. to interpret data and suggest solutions to economic problems</p> <p>4. Draws critical diagrams and graphs.</p>

			<p>a. Histogram, Frequency Polygon and Frequency Curve</p> <p>b. More than cumulative and less than cumulative frequency curves (Ogive)</p> <p>c. Different types of Bar diagrams</p> <p>d. Pie Diagram and its uses in economic analysis</p>
		Rural Entrepreneurship	<p>Explain the basic theories and essentials of entrepreneurship;</p> <p>2. Identify and analyze the entrepreneurship opportunities available in local rural area;</p> <p>3. Apply the theories of entrepreneurship to the conditions of local rural area and formulate appropriate business ideas;</p> <p>4. Demonstrate practical skills that will enable them to start rural entrepreneurship.</p>
		Urban Entrepreneurship and MSMEs	<p>Explain the basic theories and essentials of entrepreneurship</p> <p>2. Identify and analyze the entrepreneurship opportunities available in local urban area.</p> <p>3. Apply the theories of entrepreneurship to the conditions of local urban area and formulate appropriate business ideas.</p> <p>4. Demonstrate practical skills that will enable them to start urban entrepreneurship</p>
		Retail and Digital Marketing	<p>Explain the concepts and principles about the retail and digital marketing;</p> <p>2. Identify and analyse the opportunities related to retail and digital marketing available in the local area;</p> <p>3. Apply the concept to formulate the new strategies related to retail and digital marketing;</p> <p>4. Demonstrate the practical skills required to get employment in retail and digital marketing or to start own digital marketing</p>
		Insurance Services	<p>Explain the concept and principles of insurance service and functioning of insurance service agencies;</p> <p>2. Identify and analyse the opportunities related insurance services in local rural area;</p> <p>3. Apply the concepts and principles of insurance to build a career in Insurance services;</p> <p>4. Demonstrate practical skills to enable them to start insurance service agency or earn wage employment in it.</p>

B.A	Political Science	Introduction To Political Science	<ul style="list-style-type: none"> • Recall the previous knowledge about Political Science and understand the nature and • scope, traditional and modern approaches of Political Science. • Understand concepts intrinsic to the study of Political Science. • Have solid theoretical understanding of Rights and its theories along with the basic • aspects of certain political ideologies. • Apply the knowledge to observe the field level phenomena
		Basic Organs of The Government	<ul style="list-style-type: none"> • Understand the Origin and Evolution of the concept of Constitutionalism and • classification of Constitutions. • Acquaint themselves with different theories of origin of State. • Understand and analyses organs and forms of Governments along with a deep insight into • the various agents involved in the political process. • Apply the knowledge to analyse and evaluate the existing systems
		Indian Government and Politics	<ul style="list-style-type: none"> • Acquire knowledge about the historical background of Constitutional development in • India, appreciate philosophical foundations and salient features of the Indian Constitution. • Analyze the relationship between State and individual interms of Fundamental Rights and Directive Principles of State Policy. • Understand the composition of and functioning of Union Government as well as State Government and finally Acquaint themselves with the judicial system of the country and its emerging trends such as judicial reforms.
		Indian Political Process	<ul style="list-style-type: none"> • Know and understand the federal system of the country and some of

			<p>the vital</p> <ul style="list-style-type: none"> contemporary emerging issues. Evaluate the electoral system of the country and to identify the areas of electoral reforms. Know the constitutional base and functioning of local governments with special emphasis on 73rd & 74th Constitutional Amendment Acts. Understand the dynamics of Indian politics, challenges faced and gain a sensitive comprehension to the contributing factors. Apply the knowledge and critically comprehend the functioning of some of the regulatory and governance institutions. Propose theoretical outline alternate models
		Western Political Thought	<ul style="list-style-type: none"> Understand the fundamental contours classical, western political philosophy, basic features of medieval political thought and shift from medieval to modern era. Understand the Social Contract Theory and appreciate its implications on the perception of State in terms of its purposes and role. Acquaint with the Liberal and Marxist philosophy and analyze some trends in Western Political Thought. Critically analyse the evolution of western political thought
		E Governance	<ul style="list-style-type: none"> Acquaint student with the introduction to good governance and how it can be achieved by information and communication technology. Understand the growing needs of E-Governance, improving transparency in the system of governance

			<ul style="list-style-type: none"> • Have understanding of various government schemes and E-Governance projects and initiatives. • Provide the practical knowledge about the effective delivery of citizen services through online mode. • Realize the issues and challenges of E-Governance.
B.Com	Commerce	Advanced Corporate Accounting	<ul style="list-style-type: none"> • Understand Corporate Accounting environment • Record Transactions related to Purchase of Business Amalgamation and Reconstruction • Analyze the situations of Purchase of Business and Liquidation • Create formulas and calculations relating to Amalgamation, Internal Reconstruction and Holding company accounts • Acquire skills of Accounting Procedure of Advanced Corporate Accounting Environment.
		Management Accounting	<ol style="list-style-type: none"> 1. Understand the nature and scope of management accounting and differentiate management accounting, financial accounting and cost accounting. 2. Compute ratios and draw inferences 3. Analyze the performance of the organization by preparing funds flow statement and cash flow statements 4. Prepare cash budget, fixed budget and flexible budget.
		Digital Marketing	<ol style="list-style-type: none"> 1. Analyze online Micro and Macro Environment 2. Design and create website 3. Discuss search engine marketing 4. Create blogs, videos, and share
		Income Tax Assessment Procedures and Practice	<ol style="list-style-type: none"> 1. Understand the basic concepts in computation of tax liability under all heads of income of the individuals. 2. Analyze the clubbing provisions, aggregate income after set-off and carry forward of losses under the Income Tax Act.

			<ol style="list-style-type: none"> 3. Compute taxable income and tax liability of individuals and firms. 4. Acquire the ability to file online returns of income. 5. Acquire skills of TDS/TCS and online filing of Tax returns
		Goods and Services Tax	<ol style="list-style-type: none"> 1. Understand the concept of Liability and Payment of GST 2. Create a new company in Tally with GST components and establish environment for GST Voucher entry. 3. Comprehend the utilization of input tax credit, and the reverse charge mechanism in GST 4. Acquire Skills of preparation of GST Returns in accordance with GST 5. Acquire skill of online payment of GST through GST Portal.
		E Commerce	<ol style="list-style-type: none"> 1. Understand the mechanism of ecommerce 2. Equip specialization in website designing for e commerce 3. Enhance their skills in operational services of e commerce 4. Involve in activities of e commerce 5. Able to create awareness among the public one commerce activities
		Insurance Procedure And Practice	<ol style="list-style-type: none"> 1. Understand the Features of General Insurance and Insurance Companies in India 2. Analyze various schemes and policies related to General Insurance sector 3. Choose suitable insurance policy under Health, Fire, Motor, and Marine Insurances 4. Acquire General Insurance Agency skills and administrative skills 5. Apply skill for settlement of claims under various circumstances
		Advertising and Media Planning	<ol style="list-style-type: none"> 1. Understand the role of advertising in business environment 2. Understand the legal and ethical issues in advertising 3. Acquire skills in creating and developing advertisements 4. Understand up-to-date advances in the current media industry. 5. Acquire the necessary skills for planning an advertising media campaign.
		Sales Promotion and Practice	<ol style="list-style-type: none"> 1. Analyse various sales promotion activities 2. Get exposed to new trends in sales

			<p>Promotion</p> <ol style="list-style-type: none"> 3. Understand the concepts of creativity in sales promotion 4. Enhance skills to motivate the salesperson to reach their targets 5. Develop the skills of designing of sales promotion events
		Logistics Services & Practice	<ol style="list-style-type: none"> 1. Appraise the Principles of Logistics and its informatics. 2. Examine the Financial Issues in Logistics sector performance. 3. Describe basic EOQ model and ABC analysis. 4. Determine warehouse safety rules, concepts of Retail Logistics and strategies of Supply Chain Management.
		Export Import Procedure & Practice	<ol style="list-style-type: none"> 1. Understand the significance of Export and Import Management and its role in Economy and as job careers 2. Acquire knowledge on Procedures of export and import 3. Involve in pre and post EXIM activities 4. Enhance their skills by practicing in foreign trade
		Digital Marketing	<ol style="list-style-type: none"> 1. Analyze online Micro and Macro Environment 2. Design and create website 3. Discuss search engine marketing 4. Create blogs, videos, and share
		Service Marketing	<ol style="list-style-type: none"> 1. Discuss the reasons for growth of service sector. 2. Examine the marketing strategies of Banking Services, insurance and education services. 3. Review conflict handling and customer Responses in services marketing 4. Describe segmentation strategies in service marketing. 5. Suggest measures to improve services quality and their service delivery.
		e Filing	<ol style="list-style-type: none"> 1. Understand and apply basic knowledge of Indian Tax System 2. Equip specialization in taxation system Enhance their skills in presenting returns 3. Involve in activities of Chartered Accountants for filing returns 4. file returns of Income Tax and GST

B.Sc	MATHEMATICS	Differential Equations	<ol style="list-style-type: none"> 1. After successful completion of this course, the student will be able to; Solve linear differential equations. 2. Convert nonexact homogeneous equations to exact differential equations by using integrating factors. 3. Know the methods of finding solutions of differential equations of the first order but not of the first degree. 4. Solve higher-order linear differential equations, both homogeneous and non homogeneous, with constant coefficients. 5. Understand the concept and apply appropriate methods for solving differential equations.
		Three Dimensional Analytical Solid Geometry	<ol style="list-style-type: none"> 1. get the knowledge of planes. 2. basic idea of lines, sphere and cones. 3. understand the properties of planes, lines, spheres and cones. 4. express the problems geometrically and then to get the solution
		Abstract Algebra	<ol style="list-style-type: none"> 1. acquire the basic knowledge and structure of groups, subgroups and cyclic groups. 2. get the significance of the notation of a normal subgroups. 3. get the behavior of permutations and operations on them. 4. study the homomorphisms and isomorphisms with applications. 5. understand the ring theory concepts with the help of knowledge in group theory and to prove the theorems. 6. understand the applications of ring theory in various fields.
		Real Analysis	<ol style="list-style-type: none"> 1. get clear idea about the real numbers and real valued functions. 2. obtain the skills of analyzing the concepts and applying appropriate methods for testing convergence of a sequence/ series. 3. test the continuity and differentiability and Riemann integration of a function. 4. know the geometrical interpretation of mean value theorems.
		Linear Algebra	<ol style="list-style-type: none"> 1. understand the concepts of vector spaces, subspaces, bases, dimension and their properties 2. understand the concepts of linear

			<p>transformations and their properties</p> <p>3. apply Cayley- Hamilton theorem to problems for finding the inverse of a matrix and higher powers of matrices without using routine methods</p> <p>4. learn the properties of inner product spaces and determine orthogonality in inner product spaces</p>
		Numerical Methods	<p>understand the subject of various numerical methods that are used to obtain approximate solutions</p> <p>2. Understand various finite difference concepts and interpolation methods.</p> <p>3. Work out numerical differentiation and integration whenever and wherever routine methods are not applicable.</p> <p>4. Find numerical solutions of ordinary differential equations by using various numerical methods.</p> <p>5. Analyze and evaluate the accuracy of numerical methods</p>
		Vector calculus	<p>.1.Learn multiple integrals as a natural extension of definite integral to a function of two variables in the case of double integral / three variables in the case of triple integral.</p> <p>2. Learn applications in terms of finding surface area by double integral and volume by triple integral.</p> <p>3. Determine the gradient, divergence and curl of a vector and vector identities.</p> <p>4. Evaluate line, surface and volume integrals.</p> <p>5. understand relation between surface and volume integrals (Gauss divergence theorem), relation between line integral and volume integral (Green's theorem), relation between line and surface integral (Stokes theorem)</p>
		Partial differential equations & Fourier series	<p>Classify partial differential equations, formation of partial differential equations and solve Cauchy's problem for first order equations.</p> <p>2. Solve Lagrange's equations by various methods, find integral Surface passing through a given curve and Surfaces orthogonal to a given</p>

			<p>system of Surfaces.</p> <ol style="list-style-type: none"> Find solutions of nonlinear partial differential equations of order one by using Char pit's method. Find solutions of nonlinear partial differential equations of order one by using Jacobi's method. Understand Fourier series expansion of a function $f(x)$ and Parseval's theorem.
		Number theory	<ol style="list-style-type: none"> Find quotients and remainders from integer division, study divisibility properties of integers and the distribution of primes. Understand Dirichlet multiplication which helps to clarify interrelationship between various arithmetical functions. Comprehend the behaviour of some arithmetical functions for large n. Understand the concepts of congruencies, residue classes and complete residues systems. Comprehend the concept of quadratic residues mod p and quadratic non residues mod p.
B.Sc	PHYSICS	Mechanics	<ol style="list-style-type: none"> Recalls the mechanics principles, Physical quantities, their representation and relations among them Identifies the principle of mechanics Solves the problems relating to mechanics Applies the principles in different fields like rockets
		Waves and Oscillations	<ol style="list-style-type: none"> Differentiates different types of pendulums, different wave motions and oscillations Memorizes formulae, principle and phenomena related waves Solves the problems relating to waves and oscillations Uses the concept in the real life
		Thermodynamics	<ol style="list-style-type: none"> Explains thermodynamically variables and potentials Specifies principles, experiments related to thermodynamics Uses the learned principles in their daily life
		Optics	<ol style="list-style-type: none"> Explains the Optics variables and potentials Learns the principles experiments related to wave nature of light

			3. Tests the learned principles in their daily life
		Electricity, Magnetism & Electromagnetics	<ol style="list-style-type: none"> 1. Explains the principles and formulae in electricity Magnetism and electromagnetic 2. Solves the problems related to above topics 3. Tests learned principles and formulae in their daily life
		Solid State Physics	<ol style="list-style-type: none"> 1. Designs the structural arrangement of crystals 2. Discriminates different solids and their internal arrangement of atom 3. Uses the learned concept in daily life
		Modern Physics	<ol style="list-style-type: none"> 1. Designs Raman experiments, Explains DE Broglie Hypothesis and other Modern developments in Physics 2. Summarizes different theories and developments in modern physics like Raman effect, Uncertainty principle
		Analog and Digital Electronics	<ol style="list-style-type: none"> 1. Identifies different number systems, logic gates 2. Designs different combinations of logic gates and their outcomes 3. Develops electronic circuits by their own
B.Sc	ELECTRONICS	Basic Circuit Theory	<ol style="list-style-type: none"> 1. Designs basic electronic circuits 2. Identifies different components involved in electronic circuit connections
		Electronic Devices and Circuits	<ol style="list-style-type: none"> 1. Constructs the basic electronic devices used for circuit connections 2. Chooses correct electronic devices as per their requirement
		Digital Electronics	<ol style="list-style-type: none"> 1. Identifies different number systems, logic gates, registers, memory devices etc. 2. Constructs different digital electronic devices involved in circuits 3. Chooses correct memory devices and logic gates as per their requirement
		Microprocessors	<ol style="list-style-type: none"> 1. Explains the Microprocessors, their internal parts and working 2. Demonstrates the applications of different Microprocessors

		Embedded Systems and Microcontrollers	<ol style="list-style-type: none"> 1. Differentiates Embedded Systems and Micro Controllers 2. Chooses correct applications of Embedded Systems and Micro Controllers 3. Designs Micro Controllers as per their requirement
B.Sc	STATISTICS	Descriptive Statistics	<p>The objective of this paper is to throw light on the role of statistics in different fields with special reference to business and economics.</p> <ul style="list-style-type: none"> • It gives the students to review good practice in presentation and the format most applicable to their own data. • The measures of central tendency or averages reduce the data to a single value which is highly useful for making comparative studies. • The measures of dispersion throw light on reliability of average and control of variability • The concept of Correlation and Linear Regression deals with studying the linear relationship between two or more variables, which is needed to analyze the real life problems. • The attributes gives an idea that how to deal with qualitative data.
		Probability Theory and Distributions	<p>This paper deals with the situation where there is uncertainty and how to measure that uncertainty by defining the probability, random variable and mathematical expectation which are essential in all research areas.</p> <ul style="list-style-type: none"> • This paper gives an idea of using various standard theoretical distributions, their chief characteristics and applications in analyzing any data.
		Statistical Inference	<p>This paper deals with standard sampling distributions like Chi Square, t and F and their characteristics and applications.</p> <ul style="list-style-type: none"> • This paper deals with the different techniques of point estimation for estimating the parameter values of population and interval estimation for population parameters. • In this paper, various topics of Inferential Statistics such as interval estimation, Testing of Hypothesis, large sample tests (Z-test), small sample tests (t-test, F-test, chi-square test) and non-parametric tests are dealt with. These techniques play an important role in many fields like pharmaceutical, agricultural,

			medical etc.
		Sampling Techniques and Design of Experiments	<p>The sampling techniques deals with the ways and methods that should be used to draw samples to obtain the optimum results, i.e., the maximum information about the characteristics of the population with the available sources at our disposal in terms of time, money and manpower to obtain the best possible estimates of the population parameters</p> <ul style="list-style-type: none"> • This paper throw light on understanding the variability between group and within group through Analysis of Variance • This gives an idea of logical construction of Experimental Design and applications of these designs now days in various research areas. • Factorial designs allow researchers to look at how multiple factors affect a dependent variable, both independently and together.
		Applied Statistics	<p>This paper deals the time series on simple description methods of data, explains the variation, forecasting the future values, control procedures.</p> <ul style="list-style-type: none"> • It gives an idea of using index numbers in a range of practical situations, limitations and uses • The vital statistics enlighten the students in obtaining different mortality, fertility rates thus obtaining the population growth rates and construction and use of life tables in actuarial science.
		Operations Research	<ul style="list-style-type: none"> • To know the scope of Operations Research • To link the OR techniques with business environment and life sciences • To convert real life problems into mathematical models • To find a solution to the problem in different cases • To inculcate logical thinking to find a solution to the problem

B.Sc	BOTANY	Fundamentals of Microbes and Non-vascular Plants	<input type="checkbox"/> Explain origin of life on the earth. <input type="checkbox"/> Illustrate diversity among the viruses and prokaryotic organisms and can categorize them. <input type="checkbox"/> Classify fungi, lichens, algae and bryophytes based on their structure, reproduction and life cycles. <input type="checkbox"/> Analyze and ascertain the plant disease symptoms due to viruses, bacteria and fungi. <input type="checkbox"/> Recall and explain the evolutionary trends among amphibians of plant kingdom for their shift to land habitat. <input type="checkbox"/> Evaluate the ecological and economic value of microbes, thallophytes and bryophytes.
		Basics of Vascular plants and Phytogeography	Classify and compare Pteridophytes and Gymnosperms based on their morphology, anatomy, reproduction and life cycles. <input type="checkbox"/> Justify evolutionary trends in tracheophytes to adapt for land habitat. <input type="checkbox"/> Explain the process of fossilization and compare the characteristics of extinct and extant plants. <input type="checkbox"/> Critically understand various taxonomical aids for identification of Angiosperms. <input type="checkbox"/> Analyze the morphology of the most common Angiosperm plants of their localities and recognize their families. <input type="checkbox"/> Evaluate the ecological, ethnic and economic value of different tracheophytes and summarize their goods and services for human welfare. <input type="checkbox"/> Locate different phytogeographical regions of the world and India and can analyze their floristic wealth
		Anatomy and Embryology of Angiosperms, Plant Ecology and Biodiversity	Understand on the organization of tissues and tissue systems in plants. <input type="checkbox"/> Illustrate and interpret various aspects of embryology. <input type="checkbox"/> Discuss the basic concepts of plant ecology, and evaluate the effects of environmental and biotic factors on plant communities. <input type="checkbox"/> Appraise various qualitative and quantitative parameters to study the population and community ecology.
		Plant Physiology and Metabolism	Comprehend the importance of water in plant life and mechanisms for transport

			<p>ofwater and solutes in plants.</p> <ul style="list-style-type: none"> <input type="checkbox"/> Evaluate the role of minerals in plant nutrition and their deficiency symptoms. <input type="checkbox"/> Interpret the role of enzymes in plant metabolism. <input type="checkbox"/> Critically understand the light reactions and carbon assimilation processes responsible for synthesis of food in plants. <input type="checkbox"/> Analyze the biochemical reactions in relation to Nitrogen and lipid metabolisms. <input type="checkbox"/> Evaluate the physiological factors that regulate growth and development in plants. <input type="checkbox"/> Examine the role of light on flowering and explain physiology of plants under stress
		Cell Biology, Genetics and Plant Breeding	<p>Distinguish prokaryotic and eukaryotic cells and design the model of a cell.</p> <ul style="list-style-type: none"> <input type="checkbox"/> Explain the organization of a eukaryotic chromosome and the structure of genetic material. <input type="checkbox"/> Demonstrate techniques to observe the cell and its components under a microscope. <input type="checkbox"/> Discuss the basics of Mendelian genetics, its variations and interpret inheritance of traits in living beings. <input type="checkbox"/> Elucidate the role of extra-chromosomal genetic material for inheritance of characters. <input type="checkbox"/> Evaluate the structure, function and regulation of genetic material. <input type="checkbox"/> Understand the application of principles and modern techniques in plant breeding. <input type="checkbox"/> Explain the procedures of selection and hybridization for improvement of crops.
		Gardening and Landscaping	<ul style="list-style-type: none"> ➤ Perform various skills related to gardening. ➤ Identify the living and non-living components required for garden development. ➤ Identify the pests and diseases of garden plants and control the same. ➤ Demonstrate skills of making bonsai and developing lawn. ➤ Make landscape design using CAD

B.Sc	ZOOLOGY	Animal Diversity	<ul style="list-style-type: none"> ➤ Describe general taxonomic rules on animal classification ➤ Classify Protozoa to Coelenterata with taxonomic keys ➤ Classify Phylum Platy hemninthes to Annelida phylum using examples from parasitic adaptation and vermin composting ➤ Describe Phylum Arthropoda to Mollusca using examples and importance of insects and Molluscans ➤ Describe Echinodermata to Hemi chordata with suitable examples and larval stages in relation to the phylogeny
		Animal Diversity - Biology of Nonchordates	<ul style="list-style-type: none"> ➤ To understand the importance of preservation of museum specimens ➤ To identify animals based on special identifying characters ➤ To understand different organ systems through demo or virtual dissections ➤ To maintain a neat, labeled record of identified museum specimens
		Biology of Chordates	<ul style="list-style-type: none"> ➤ Describe general taxonomic rules on animal classification of chordates ➤ Classify Protochordata to Mammalia with taxonomic keys ➤ Understand Mammals with specific structural adaptaions ➤ Understand the significance of dentition and evolutionary significance ➤ Understand the origin and evolutionary relationship of different phyla from Prochordata to mammalia.
		Cell Biology, Genetics, Molecular Biology And Evolution	<ul style="list-style-type: none"> ➤ To understand the basic unit of the living organisms and to differentiate the organisms ➤ by their cell structure. ➤ Describe fine structure and function of plasma membrane and different cell organelles ➤ of eukaryotic cell. ➤ To understandthe history of origin of branch of genetics, gain knowledge on heredity, ➤ Interaction of genes, various types of inheritance patterns existing in animals

			<ul style="list-style-type: none"> ➤ Acquiring in-depth knowledge on various aspects of genetics involved in sex ➤ determination, human karyotyping and mutations of chromosomes resulting in various
		<p>Animal Physiology, Cellular Metabolism And Embryology</p>	<ul style="list-style-type: none"> ➤ Understand the functions of important animal physiological systems including digestion, cardio-respiratory and renal systems. ➤ Understand the muscular system and the neuro-endocrine regulation of animal growth, development and metabolism with a special knowledge of hormonal control of human reproduction. ➤ Describe the structure, classification and chemistry of biomolecules and enzymes responsible for sustenance of life in living organisms ➤ Develop broad understanding the basic metabolic activities pertaining to the catabolism and anabolism of various biomolecules ➤ Describe the key events in early embryonic development starting from the formation of gametes upto gastrulation and formation of primary germ layers.
		<p>Immunology and Animal Biotechnology</p>	<ul style="list-style-type: none"> ➤ organs of Immune system, types of immunity, cells and organs of immunity. ➤ To describe immunological response as to how it is triggered (antigens) and regulated (antibodies) ➤ Understand the applications of Biotechnology in the fields of industry and agriculture ➤ including animal cell/tissue culture, stem cell technology and genetic engineering. ➤ Get familiar with the tools and techniques of animal biotechnology.

B.Sc		Organic Chemistry & Spectroscopy	<ul style="list-style-type: none"> ➤ Understand and preparation, properties and reactions of haloalkanes, haloarenes and oxygen containing functional groups. ➤ Use the synthetic chemistry learnt in this course to do functional group transformations. ➤ To propose plausible mechanisms for any relevant reaction
		Inorganic, Organic and Physical Chemistry	<ul style="list-style-type: none"> ➤ To learn about the laws of absorption of light energy by molecules and the subsequent photochemical reactions. ➤ To understand the concept of quantum efficiency and mechanisms of photochemical reactions
		Inorganic & Physical Chemistry	<ul style="list-style-type: none"> ➤ Understand concepts of boundary conditions and quantization, probability distribution, most probable values, uncertainty and expectation values ➤ Application of quantization to spectroscopy. ➤ Various types of spectra and the structure determination.
		Analytical Methods in Chemistry	<ul style="list-style-type: none"> ➤ Identify the importance of solvent extraction and ion exchange method. ➤ Acquire knowledge on the basic principles of volumetric analysis and gravimetric analysis. ➤ Demonstrate the usage of common laboratory apparatus used in quantitative analysis. ➤ Understand the theories of different types of titrations. ➤ Gain knowledge on different types of errors and their minimization methods.
		Industrial Chemistry	<ul style="list-style-type: none"> ➤ Identify the importance of different surface coatings. ➤ Acquire a critical knowledge on manufacture of ceramics and cement. ➤ Understand various steps in the manufacture of cane sugar. ➤ Explain the manufacture of pulp and paper.

	COMPUTER SCIENCE	problem solving in c	<ol style="list-style-type: none"> 1. Understand the evolution and functionality of a Digital Computer. 2. Apply logical skills to analyse a given problem 3. Develop an algorithm for solving a given problem. 4. Understand „C“ language constructs like Iterative statements, Array processing, Pointers, etc. 5. Apply „C“ language constructs to the algorithms to write a „C“ language program.
		Data Structures Using C	<ol style="list-style-type: none"> 1. Understand available Data Structures for data storage and processing. 2. Comprehend Data Structure and their real-time applications - Stack, Queue, Linked List, Trees and Graph 3. Choose a suitable Data Structures for an application 4. Develop ability to implement different Sorting and Search methods 5. Have knowledge on Data Structures basic operations like insert, delete, search, update and traversal 6. Design and develop programs using various data structures 7. Implement the applications of algorithms for sorting, pattern matching etc
		Database Management Systems	<ol style="list-style-type: none"> 1. Gain knowledge of Database and DBMS. 2. Understand the fundamental concepts of DBMS with special emphasis on relational data model. 3. Demonstrate an understanding of normalization theory and apply such knowledge to the normalization of a database 4. Model database using ER Diagrams and design database schemas based on the model. 5. Create a small database using SQL. 6. Store, Retrieve data in database.
		Object Orientated Programming Through Java	<ol style="list-style-type: none"> 1. Understand the benefits of a well-structured program 2. Understand different computer programming paradigms 3. Understand underlying principles of Object-Oriented Programming in Java 4. Develop problem-solving and programming skills using OOP concepts

			5. Develop the ability to solve real-world problems through software development in high-level programming language like Java
		Web Interface Designing Technologies	<ol style="list-style-type: none"> 1. Understand and appreciate the web architecture and services. 2. Gain knowledge about various components of a website. 3. Demonstrate skills regarding creation of a static website and an interface to dynamic website. 4. Learn how to install word press and gain the knowledge of installing various plugins to use in their websites.
		Web Applications Development using PHP & MYSQL	<ol style="list-style-type: none"> 1. Write simple programs in PHP. 2. Understand how to use regular expressions, handle exceptions, and validate data using PHP. 3. Apply In-Built functions and Create User defined functions in PHP programming. 4. Write PHP scripts to handle HTML forms. 5. Write programs to create dynamic and interactive web based applications using PHP and MYSQL. 6. Know how to use PHP with a MySQL database and can write database driven web pages
		Internet of Things	<ol style="list-style-type: none"> 1. Appreciate the technology for IoT 2. Understand various concepts, terminologies and architecture of IoT systems. 3. Understand various applications of IoT 4. Learn how to use various sensors and actuators for design of IoT. 5. Learn how to connect various things to Internet. 6. Learn the skills to develop simple IOT Devices.
		Application Development Using Python	<ol style="list-style-type: none"> 1. Understand and appreciate the web architecture and services. <p>Examine Python syntax and semantics and be fluent in the use of Python flow control and functions.</p> <ol style="list-style-type: none"> 3. Demonstrate proficiency in handling Strings and File Systems. <p>Create, run and manipulate Python Programs using core data structures like Lists, Dictionaries and use Regular</p>

			<p>Expressions.</p> <ol style="list-style-type: none"> 5. Interpret the concepts of Object-Oriented Programming as used in Python. 6. Apply concepts of Python programming in various fields related to IOT, Web Services and Databases in Python.
		Data Science	<ol style="list-style-type: none"> 1. Develop relevant programming abilities. 2. Demonstrate proficiency with statistical analysis of data. 3. Develop the ability to build and assess data-based models. 4. Demonstrate skill in data management 5. Apply data science concepts and methods to solve problems in real-world contexts and will communicate these solutions effectively
		Python for Data Science	<ol style="list-style-type: none"> 1. Identify the need for data science and solve basic problems using Python built-in data types and their methods. 2. Design an application with user-defined modules and packages using OOP concept 3. Employ efficient storage and data operations using NumPy arrays. 4. Apply powerful data manipulations using Pandas. 5. Do data pre-processing and visualization using Pandas
	COMPUTER APPLICATIONS	Big Data Analytics Using R	<ol style="list-style-type: none"> 1. Understand data and classification of digital data. 2. Understand Big Data Analytics. 3. Load data in to R. 4. Organize data in the form of R objects and manipulate them as needed. 5. Perform analytics using R programming
		Data Science Using Python	<ol style="list-style-type: none"> 1. Understand basic concepts of data science 2. Understand why python is a useful scripting language for developers. 3. Use standard programming constructs like selection and repetition. 4. Use aggregated data (list, tuple, and dictionary). 5. Implement functions and modules.

		Mobile Application Development	<ol style="list-style-type: none"> 1. Identify basic terms ,tools and software related to android systems 2. Describe components of IDE, understand features of android development tools 3. Describe the layouts and controls 4. Explain the significance of displays using the given view 5. Explain the features of services and able to publish android Application 6. Developing interesting Android applications using MIT App Inventor
		Cyber Security And Malware Analysis	<ol style="list-style-type: none"> 1. Understand the computer networks, networking tools and cyber security 2. Learn about NIST Cyber Security Framework 3. Understand the OWASP Vulnerabilities 4. Implement various Malware analysis tools 5. Understand about Information Technology act 2000
		E- Commerce Application Development	<ol style="list-style-type: none"> 1. To apply in an integrative and summative fashion the students' knowledge in all fields of business studies by drafting a website presence plan. 2. To understand the factors needed in order to be a successful in ecommerce 3. To gain the skills to bring together knowledge gathered about the different components of building a web presence 4. To critically think about problems and issues that might pop up during the establishment of the web presence 5. To apply Word Press as a content management system (CMS), Plan their website by choosing colour schemes, fonts, layouts, and more
		Real Time Governance System (Rtgs)	<ol style="list-style-type: none"> 1. Understand the terms regarding Governance, E-Governance and RTGS 2. Learn about E-Governance Infrastructure 3. Understand the E-Governance implementation in several countries 4. Understand the E-Governance implementation in several Indian states 5. Understand the applications of RTG
		Multimedia Tools and Applications	<ol style="list-style-type: none"> 1. Gain knowledge on the concepts related to Multimedia.

			<ol style="list-style-type: none"> 2. Understand the concepts like image data representation and colour modes. 3. Understand the different types of video signals and digital audio. 4. Know about multimedia data compression types and audio compression standards 5. Know about basic video compression techniques.
		Digital Imaging	<ol style="list-style-type: none"> 1. Gain knowledge about Types of Graphics, Types of Objects and Types of video editing tools 2. Show their skills in editing and altering photographs for through a basic understanding of the tool box. 3. Gain knowledge in using the layers. 4. Gain knowledge in using the selection tools, repair tools. 5. Gain knowledge in using selection tools, applying filters and can show their skills.
	SKILL DEVELOPMENT COURSES	Tourism Development	<ol style="list-style-type: none"> 1. Understand the basic tourism aspects 2. Comprehend the requirements, role and responsibilities of profession of a Tourist Guide 3. Apply the knowledge acquired in managing different groups and guiding in a tour 4. Explain basic values related to tourism and heritage
		Journalistic Reporting	<ol style="list-style-type: none"> 1. Understand the historical background and role Public Relations in various areas 2. Have insight into the use of the technological advancements in Public Relations 3. Comprehend tools of Public Relations in order to develop the required skills. 4. Understand the ethical aspects and future of Public Relations in India 5. Develop writing skills for news papers and creation of Blogs.
		Survey and Reporting	<ol style="list-style-type: none"> 1. Understand the basics of survey and reporting needs and methods 2. Comprehend designing of a questionnaire 3. Conduct a simple and valid survey and Collect data 4. Organize and interpret data and Prepare and submit report.

		Financial Markets	<ol style="list-style-type: none"> 1. Acquire knowledge of financial terms 2. Know the concepts relating to and markets and different avenues of investment 3. Understand the career skills related to Stock Exchanges 4. Comprehend the personal financial planning and money market skill
		Disaster Management	<ol style="list-style-type: none"> 1. Understand the nature, cause and effects of disasters 2. Comprehend the importance of Disaster Management and the need of awareness 3. Acquire knowledge on disaster preparedness, recovery remedial measures and personal precautions 4. Volunteer in pre and post disaster management service activities
		Social Work	<ol style="list-style-type: none"> 1. Understand the basic concepts relating to social work practice, values, principles of social work and social problems in India 2. List out different approaches of providing help to the people in need. 3. Acquaint the process of primary methods of social work 4. Get to know the skills of working with individuals, groups and communities
		Advertising	<ol style="list-style-type: none"> 1. Understand the field of Advertising 2. Comprehend opportunities and challenges in Advertising sector 3. Prepare a primary advertising model 4. Understand applying of related skills 5. Examine the scope for making advertising a future career
		Agricultural Marketing	<ol style="list-style-type: none"> 1. Know the kinds of agricultural products and their movement 2. Understand the types, structure and functioning of agricultural marketing system 3. Comprehend related skills and apply them in sample situations 4. Extend this knowledge and skills to their production/consumption environment
		Business Communication	<ol style="list-style-type: none"> 1. Understand the types of business communication and correspondence 2. Comprehend the processes like receiving, filing and replying 3. Acquire knowledge in preparing good business communications 4. Acquaint with organizational communication requirements and

			presentations.
		Insurance Promotion	<ol style="list-style-type: none"> 1. Understand the field level structure and functioning of insurance sector and it's role in protecting the risks 2. Comprehend pertaining skills and their application for promoting insurance coverage 3. Prepare better for the Insurance Agent examination conducted by IRDA 4. Plan 'promoting insurance coverage practice' as one of the career options.
		Logistics And Supply Chain Management	<ol style="list-style-type: none"> 1. Summarize relationship between marketing and Logistic Management 2. Understand the concepts of Supply Chain Management in connection with products. 3. Understanding various types of seller and suppliers 4. Evaluate best logistic method among all means of transport operations 5. Analysis of different distribution strategies - online and physical distribution 6. Compare the Logistics in National and International Scenario. 7. Design and develop new methods and models of Logistics in SCM
		Online Business	<ol style="list-style-type: none"> 1. Understand the online business and its advantages and disadvantages 2. Recognize new channels of marketing, their scope and steps involved 3. Analyze the procurement, payment process, security and shipping in online business 4. Create new marketing tools for online business 5. Define search engine, payment gateways and SEO techniques.
		Office Secretaryship	<ol style="list-style-type: none"> 1. Understand the organizational hierarchy and outlines of functioning 2. Comprehend the role of office secretaryship in a small and medium organization 3. Acquire knowledge on office procedures and interpersonal skills 4. Apply the skills in preparing and presenting notes, letters, statements, reports in different situations.
		Retailing	<ol style="list-style-type: none"> 1. Acquire necessary skills/hand on experience/ working knowledge on multimeters, galvanometers, ammeters, voltmeters, ac/dc generators, motors, transformers, single phase and three phase connections, basics of electrical wiring with electrical protection devices.

			<ol style="list-style-type: none"> 2. Understand the working principles of different household domestic appliances. 3. Check the electrical connections at household but will also learn the skill to repair the electrical appliances for the general troubleshoots and wiring faulty
		Solar Energy	<ol style="list-style-type: none"> 1. Acquire knowledge on solar radiation principles with respect to solar energy estimation. 2. Get familiarized with various collecting techniques of solar energy and its storage 3. Learn the solar photovoltaic technology principles and different types of solar cells for energy conversion and different photovoltaic applications. 4. Understand the working principles of several solar appliances like Solar cookers, Solar hot water systems, Solar dryers, Solar Distillation, Solar greenhouses
		Food Adulteration	<ol style="list-style-type: none"> 1. Get basic knowledge on various foods and about adulteration. 2. Understand the adulteration of common foods and their adverse impact on health 3. Comprehend certain skills of detecting adulteration of common foods. 4. Be able to extend their knowledge to other kinds of adulteration, detection and remedies. 5. Know the basic laws and procedures regarding food adulteration and consumer protection.
		Environmental Audit	<ol style="list-style-type: none"> 1. Understand the basic concepts Environmental health 2. Learn and identify the industrial pollution 3. Explain the highlights in the regulatory aspects of Environmental law and policy 4. Understand the various phases of Environmental Audit
		Plant Nursery	<ol style="list-style-type: none"> 1. Understand the importance of a plant nursery and basic infrastructure to establish it. 2. Explain the basic material, tools and techniques required for nursery. 3. Demonstrate expertise related to various practices in a nursery. 4. Comprehend knowledge and skills to get an employment or to become an entrepreneur in plant nursery sector.
		Fruits And Vegetable Preservation	<ol style="list-style-type: none"> 1. Identify various types of fruits and vegetables and explain their nutritive value.

			<ol style="list-style-type: none"> 2. Understand the fragile nature of fruits and vegetables and causes for their damage. 3. Explain various methods of preservation for fresh fruits and vegetables. 4. Get to know the value-added products made from fruits and vegetables.
		Dairy Technology	<ol style="list-style-type: none"> 1. Understand the pre-requisites for starting a Dairy farm 2. Recognize different breeds of Cows & buffaloes following safety precautions. 3. Prepare and give recommended feed and water for livestock 4. Maintain health of livestock along with productivity 5. Vaccination of cattle, nutrients requirements 6. Entrepreneurship i.e., Effectively market dairy products 7. Ensure safe and clean dairy farm and Standard safety measures to be taken in establishing an industry 8. Efficiently start and manage to establish or develop a Dairy Industry
		Poultry Farming	<ol style="list-style-type: none"> 1. Understand the field level structure and functioning of insurance sector and its role in protecting the risks 2. Comprehend pertaining skills and their application for promoting insurance coverage 3. Prepare better for the Insurance Agent examination conducted by IRDA 4. Plan 'promoting insurance coverage practice' as one of the career options.
	LIFE SKILL COURSES	Analytical Skills	<ol style="list-style-type: none"> 1) Understand the basic concepts of arithmetic ability, quantitative ability, logical reasoning, business computations and data interpretation and obtain the associated skills. 2) Acquire competency in the use of verbal reasoning. 3) Apply the skills and competencies acquired in the related areas 4) Solve problems pertaining to quantitative
		Entrepreneurship Development	<ol style="list-style-type: none"> 1) After successful completion of the course the student will be able to; Understand the concept of Entrepreneurship, its applications and scope. 2) Know various types of financial institutions that help the business at Central, State and Local Level Understand Central and State Government policies 3) Aware of various tax

			<p>incentives,—concessions Applies the knowledge for generating a broad idea for a starting an enterprise/start up</p> <p>4) Understand the content for preparing a Project Report for a start up and differentiate between financial, technical analysis and business feasibility</p>
		Environmental Education	<p>1) Understand the nature, components of an ecosystem and that humans are an integral part of nature.</p> <p>2) Realize the importance of environment, the goods and services of a healthy biodiversity, dependence of humans on environment.</p> <p>3) Evaluate the ways and ill effects of destruction of environment, population explosion on ecosystems and global problems consequent to anthropogenic activities.</p> <p>4) Discuss the laws/ acts made by government to prevent pollution, to protect biodiversity and environment as a whole.</p> <p>5) Acquaint with international agreements and national movements, and realize citizen’s role in protecting environment and nature.</p>
		Health & Hygiene	<p>1) What is a healthy diet</p> <p>2) How can we use available information to optimize our diet?</p> <p>3) Can nutrition be used for a healthy life?</p> <p>4) Is there a one-size-fits-all “good” diet or should we individualize our dietary goals?</p> <p>5) Disaster management and responsiveness of public in pandemic and epidemic diseases</p> <p>6) Assess the impact of policies on health and hygiene Health measures to consider while travelling</p> <p>7) Awareness in public through digital media viz., mobile apps</p>
		Human Values and Professional Ethics (Hvpe)	<p>1) Distinguish between values and skills, happiness and accumulation of physical facilities, the Self and the Body, Intention and Competence of an individual, etc.</p> <p>2) Understand the value of harmonious relationship based on trust and respect in their life and profession</p> <p>3) Understand the role of a human being in ensuring harmony in society and nature.</p> <p>4) Distinguish between ethical and unethical practices, and start working out the strategy to</p>

			actualize a harmonious environment wherever they work.
		Information & Communication Technology	<ol style="list-style-type: none"> 1. Understand the literature of social networks and their properties. 2. Explain which network is suitable for whom. 3. Develop skills to use various social networking sites like twitter, flickr, etc. 4. Learn few GOI digital initiatives in higher education. 5. Apply skills to use online forums, docs, spreadsheets, etc for communication, collaboration and research. 6. Get acquainted with internet threats and security mechanisms.
		Leadership Education	<ol style="list-style-type: none"> 1. Develop comprehensive understanding of personality 2. Know how to assess and enhance one's own personality 3. Comprehend leadership qualities and their importance 4. Understand how to develop leadership qualities