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SACRED HEART COLLEGE (AUTONOMOUS)

Tirupattur – 635 601, Tamil Nadu, S.India

Resi : (04179) 220103

College : (04179) 220553

Fax : (04179) 226423

A Don Bosco Institution of Higher Education, Founded in 1951 * Affiliated to Thiruvalluvar University, Vellore * Autonomous since 1987

Accredited by NAAC (4th Cycle – under RAF) with CGPA of 3.31 / 4 at 'A+' Grade

Name of the Programme: BA Economics

SN o	Title of the Paper	Course Code	Course Objectives	Course Outcomes	Relevance
1	INDUSTRIAL ECONOMICS	E420	<ul style="list-style-type: none"> To understand the basic concepts in Industrial Economics. To learn the theories in Industrial location, mergers, and SEZs. To know the classification of Indian industries and its productivity. To analyze the sources of industrial financial institutions. To evaluate the performance of industrial development. 	<ul style="list-style-type: none"> Working with Industrial linkages. Familiarizing the theories of Industrial location, mergers, and SEZs. Differentiating the Indian industries and its productivity. Exploring the sources of industrial financial institutions. Appraising the industrial dynamics, and its regulations. 	Regional
2	MANAGERIAL ECONOMICS	AE305	<ul style="list-style-type: none"> To learn the basic tools in managerial economics. To understand the importance of cost and revenue analysis. To disseminate the different pricing strategies. To study the importance of factors of production. To know the different methods of capital budgeting. 	<ul style="list-style-type: none"> Identifying the basic tools of managerial economics. Computing different kinds of cost and revenue. Analysing the different methods of pricing. Evaluating the production function. Formulating different methods of capital budgeting. 	Regional

3	ELECTIVE:1 MANAGERIAL ECONOMICS	E547A	<ul style="list-style-type: none"> • To study the basics of managerial economics. • To understand the concepts of cost and revenue. • To study different pricing strategies. • To learn the demand forecasting. 	<ul style="list-style-type: none"> • Identifying the different aspects of managerial economics. • Relating the cost and revenue analysis. Applying the different pricing strategies in business. • Predicting different methods to demand 	Regional
4	NON-MAJOR ELECTIVE – II: INDIAN ECONOMY: BASIC ISSUES	NEC604	<ul style="list-style-type: none"> • To study basic ideas of economic systems. • To understand the issues of Indian agriculture. • To know the major issues faced by the Indian industries. • To learn the roles and responsibilities of the service sector. • To know the major issues affecting the Indian economy. 	<ul style="list-style-type: none"> • Familiarizing the different economic systems. • Describing emerging issues in agriculture • Analyzing the recent issues in Industrial sector • Evaluating the contribution of service sector • Assessing the emerging issues in Indian economy. 	Regional



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Name of the Programme: MA Economics

S No	Title of the Paper	Course Code	Course Objectives	Course Outcomes	Relevance
1.	ELECTIVE -I DEMOGRAPHY	E752A	<ul style="list-style-type: none"> To learn the population growth and economic developed in developing countries. To study the concepts of demography and the vital statistical indicators. . To understand the population census to frame the suitable Government policies. To demonstrate the techniques of population projection., To evaluate the new population policy and its implementations for development strategy. 	<ul style="list-style-type: none"> Classifying population and economic growth in developing and developed countries. Comparing demography and vital statistics. Applying diverse techniques in measurement of population studies. Analyzing the measurement of population projection and aging population. Evaluating different new population policies for growth and development. 	Regional
2.	ELECTIVE I: ECONOMICS OF INFRASTRUCTURE	E752C	<ul style="list-style-type: none"> To learn understand the basic concepts of public utility services. To study social physical infrastructural theories. 	<ul style="list-style-type: none"> Relating the basic public utility services. Applying the different public utility services and its development. Analysing the demand and supply of 	Regional

			<ul style="list-style-type: none"> To understand the health care services and new education. To demonstrate the basic amenities and pricing policy in rural and urban areas. To evaluate different forms of social infrastructural services. 	<ul style="list-style-type: none"> health care and educational services. Examining the basic utility services and pricing. Constructing the social infrastructural services. 	
3.	ELECTIVE II: INDUSTRIAL ECONOMICS	E859A	<ul style="list-style-type: none"> To learn the fundamentals of Industrial Economics. To study different theories in Industrial location. To understand Indian industrial growth and pattern. To demonstrate industrial labour legislation and labour market. To evaluate industrial concentration and its diversification. 	<ul style="list-style-type: none"> Understanding the fundamental ideas in Industrial Economics. Applying different theories of Industrial location. Comparing the Indian industrial growth and pattern. Appraising of industrial labour legislation and labour market. Assessing the industrial concentration and analyze the diversification. 	Regional
4.	ELECTIVE II: ECONOMICS OF URBANISATION	E859B	<ul style="list-style-type: none"> To learn the structure of urban economics. To study the theories of urban economics. To understand the trends in urban housing and labour market. To demonstrate about the problems of urbanisation. To evaluate the modern approach of growth strategies. 	<ul style="list-style-type: none"> Understanding the nature and structure of urban economics. Examining the theoretical knowledge of urban economics. Applying suitable policies in upgrading the structure of urbanization. Assessing appropriate policies in urbanization problems. Evaluating the government policies on various aspects of urban development. 	Regional

5.	ELECTIVE II: ECONOMICS OF GENDER AND DEVELOPMENT	E859C	<ul style="list-style-type: none"> To learn feminist economics and challenges. To study the importance of women and labour market. To understand the role of technology for women empowerment. To demonstrate social security and gender policies. To evaluate gender and the relevance of different policy. 	<ul style="list-style-type: none"> Understanding the concepts of gender economics and its challenges. Identifying the nature of labour market for women Applying gender relations for developmental process. Apprising social security and protection measures for women. Creating ideas about the different gender policies. 	Regional
6.	ENTREPRENEURSHIP TRAINING SKILLS	E860S	<ul style="list-style-type: none"> To learn the importance of entrepreneurship for economic development. To study personal creativity and entrepreneurial initiatives. To understand business ideas for the project appraisal. To demonstrate marketing strategies and institutional finance. To evaluate the various benefits of small scale industry. 	<ul style="list-style-type: none"> Understanding the resources for business enterprise. Organising programs to develop the entrepreneurial activities. Preparing business project proposals for new business. Applying industrial finance for marketing. Creating innovative ideas for new business initiatives. 	Regional
7	TAMIL NADU ECONOMIC DEVELOPMENT (ELECTIVE OPTIONAL)	E1041B	<ul style="list-style-type: none"> To know about the natural resources of Tamil Nadu. To understand the current situation of different sectors of Tamil Nadu economy. To understand the performance of various sectors operating in Tamil Nadu. To analyze the various welfare schemes in the developmental process of Tamil Nadu. 	<ul style="list-style-type: none"> Becoming more effective in understanding about Tamil Nadu Economy. Knowing the current situation of sectoral composition of Tamil Nadu Economy. Analyse the performance of different sectors of Tamil Nadu Economy Getting knowledge about policy analysis with regard to Tamil Nadu Economy 	Regional

			<ul style="list-style-type: none"> To understand more of State Planning Commission. 	<ul style="list-style-type: none"> Gaining ability to compare and analyze Tamil Nadu Economy with rest of the Country. 	
8	CO-OPERATION AND RURAL DEVELOPMENT (ELECTIVE OPTIONAL)	E1042C	<ul style="list-style-type: none"> To understand the concept of cooperation and its origin. To acquire knowledge of international cooperative movements and its growth. To understand the role agriculture in rural development. To acquire knowledge about financial institutions in rural development. To understand the role of Government in rural development programs. 	<ul style="list-style-type: none"> Understanding the history and growth of cooperation in India Acquiring knowledge of cooperative movement in international level Understanding the agricultural policy, taxation and rural development Familiarizing with NABARD, RRBs and SHGs in rural development Knowing the food for work program, rural credit institutions and rural development programs of Government of India. 	Regional



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Name of the Programme: B Com

S No	Title of the Paper	Course Code	Course Objectives	Course Outcomes	Relevance
1	PRINCIPLES OF MARKETING	C326	<ul style="list-style-type: none"> To provide basic knowledge of concepts, principles, tools and techniques of Marketing. To make the students to identify the process of developing new products and pricing them. To impart knowledge on different types of promotion and different distribution channels. To make them understand the importance of the concept of consumer behavior and apply it in marketing To make them understand the concepts of social marketing, green marketing, and rural marketing. 	<p>After the completion of this paper, the students will able to</p> <ul style="list-style-type: none"> Gain knowledge and understand the basic concepts of marketing. Familiar with developing of a new product and different pricing methods. Aware of various promotion and distribution strategies. Understand the various factors influencing consumer behavior. Gain knowledge on the recent developments in marketing. 	Regional
2	HUMAN RESOURCE MANAGEMENT	C649	<p>The students will be able to</p> <ul style="list-style-type: none"> To understand the various aspects of human resource management. To estimate human resource requirement and develop human 	<p>After studying this course, students would be able to</p> <ul style="list-style-type: none"> Describe the various aspects of human resource management. Determine human resource 	Regional

			<p>resource plan.</p> <ul style="list-style-type: none"> • To devise the recruitment and selection strategies. • To examine the various training and development methods. • To measure the employee performance by using appropriate appraisal methods. 	<p>requirements and prepare human resource plan.</p> <ul style="list-style-type: none"> • Formulate the recruitment and selection strategies. • Assess the various training and development methods. • Measure the employees' performance by employing appropriate appraisal methods. 	
3	COMPUTERIZED ACCOUNTING	C651A	<p>The students will be able to</p> <ul style="list-style-type: none"> • Get acquainted with the concept of accounting packages, TALLY ERP 9, etc. • Acquire about the information on creation, alteration and deletion of ledgers and accounting vouchers. • Develop skills in creation of inventory masters in TALLY ERP 9, like stock groups, stock categories, godowns, units of measure, etc. • Improve their knowledge on budgets, payroll system, and statutory features in TALLY. • Gain insights into analyse the reports on TALLY, extraction of ratios, cash flow statement and funds flow statement. 	<p>After studying this course, students would be able to</p> <ul style="list-style-type: none"> • Apply their knowledge on the concept of accounting packages, TALLY ERP 9, etc. • Understand about the information on creation, alteration and deletion of ledgers and accounting vouchers. • Analyse and integrate their skills in creation of inventory masters in TALLY ERP 9, like stock groups, stock categories, godowns, units of measure, etc. • Apply their awareness on budgets, payroll system, and statutory features in TALLY. • Expose their insights into analyse the reports on TALLY, extraction of ratios, cash flow statement and funds flow statement. 	Regional



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Name of the Programme: M Com

S No	Title of the Paper	Course Code	Course Objectives	Course Outcomes	Relevance
1	CONSUMER BEHAVIOR	C724	<ul style="list-style-type: none">To make a student to understand the different dimension of consumer behavior,To help students learn various models of consumer behavior.To illustrate the various models of consumerism.To discover knowledge on group dynamics of consumer.	<ul style="list-style-type: none">Understand the factors influencing consumer buying behavior and consumer process.Discover the knowledge of various buying behaviour models and how the models are inspiring the consumers.Evolution of Consumerism, Consumer Exploitation in India , Major Problems of Consumers Exploitation and the	Regional/ National

2	ACCOUNTING FOR MANAGERIAL DECISION MAKING	C823	<p>To enable students to acquire sound knowledge of concepts, methods and techniques of management accounting and to develop competence with their usage in managerial decision-making control.</p> <ul style="list-style-type: none"> • To analyses the operational efficiency by comparison of present ratio with those of the past working and also with those of other firms in the industry. • To ascertain various sources from where the funds were raised and the specific manner in which they were utilized between the dates of the two Balance Sheet. • To defend the importance of linking an organizations budget with its strategic plan. • To determine profitability at different level of production and sales. 	<ul style="list-style-type: none"> • Identify and describe factors that influence the effectiveness of decision making. Validate or disprove the financing, investment and operating decisions of the firm. • Analyze the financial position of a company and to discuss the usefulness and format of the statement of cash flow • Understand how budget and variances are used to control operations. • Determine the structure of short run production based on the relation among total, average and marginal products. 	Regional/ National
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3	QUANTITATIVE TECHNIQUES FOR BUSINESS DECISIONS	C826	<ul style="list-style-type: none"> • To demonstrate the Linear Programming Problem with Mathematical Formulation, Graphical Method and Simplex Method. • To exhibit specialized knowledge on Transportation Problem with North West Corner, Least Cost and Vogel's Approximation Methods. • To develop expertise in the field of Assignment Problem by using Hungarian Method and also by using Traveling Salesman concept. • To prepare themselves in understanding the techniques of Inventory Control with various cost concepts. • To inculcate students, the awareness on Network Scheduling problems by using PERT and CPM Techniques. 	<ul style="list-style-type: none"> • Enhance their knowledge on Linear Programming Problem (L.P.P) models through Mathematical, Graphical and Simplex Methods. • Horizon their knowledge in the Transportation Problem by applying North West Corner, Least Cost and Vogel's Approximation methods. • Experiment the Assignment Problem which can be solved by using Hungarian method. • Evaluate the knowledge on various cost concepts involved in the manufacturing industries, by using the inventory control techniques. • Formulate the basic Network Scheduling Model, by using PERT and CPM techniques. 	Regional/ National
4	ENTREPRENEURIAL DEVELOPMENT	C827A	<ul style="list-style-type: none"> • To enable the students to understand the concept of entrepreneurship and to learn the professional behaviour on entrepreneurship • To create the awareness about women entrepreneurs and of their empowerment • To identify, develop and incubating successful business ideas 	<ul style="list-style-type: none"> • Obtain knowledge of concepts, functions of entrepreneur. • Enumerate significant changes and trends which create business opportunities and to analyze the environment for potential business opportunities • Develop successful business ideas • Analyse and create project formulation 	Regional/ National

5	INCOME TAX AND TAX PLANNING – I	C929	<ul style="list-style-type: none"> • To provide the basic knowledge of Income Tax Law. • To understand the Income tax authorities, TDS and e-filing procedures. • To apply the provisions of Income Tax Act in the computation of taxable income from salary. • To impart knowledge in computing taxable income under the head house property. • To enable the students to compute the taxable income from business and profession. And To make the students to understand the importance of tax planning. 	<ul style="list-style-type: none"> • Acquire knowledge of the basic provisions of Income Tax Act • Understand with provisions of Income Tax Act on filing of return, Advance tax and TDS • Assess the taxable income from salary during the service and after retirement by applying the concepts of tax planning. • Anticipate the taxable income from house property and plan the tax liability on income from house property. • Integrate the concept of tax planning under the head business and profession and minimise the tax liability. 	Regional/ National
6	INCOME TAX AND TAX PLANNING – II	C1024	<ul style="list-style-type: none"> • To impart knowledge on provisions related to assessing the taxable capital gain. • To understand the rules on taxability of other incomes and minimise the taxable income through set-off and carry forward of losses. • To develop ideal model of investments and savings based on the concepts of deductions, and to minimise the taxable income of individual. • To acquire knowledge on taxability of income of companies and minimum alternate tax. • To minimise the tax liability without tax evasion and through in-depth knowledge on deductions and tax planning 	<ul style="list-style-type: none"> • Understand with the provisions on computation of taxable capital gain and plan the investments to claim exemption under capital gain. • Familiar with the provisions of Income Tax Act on Income from other source and apply the provisions to adjust the loss under various heads of Income. • Assess the taxable income and anticipate the tax liability Minimise the tax liability under the concepts of tax planning and deductions. • Compute the taxable income of company and their tax liability. 	Regional/ National



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Name of the Programme: B.Sc. Mathematics

S No	Title of the Paper	Course Code	Course Objectives	Course Outcomes	Relevance
1	MATHEMATICAL COMPETENCE COURSE (SSP)		<ul style="list-style-type: none">To train the students to acquire knowledge for appearing/Preparing NBHM and all India PG entrance exams other competitive exams	<ul style="list-style-type: none">understand basic concepts of calculus, vectors, matrices, sequences ,series and algebra.	Regional/ National
2	NON-MAJOR ELECTIVE MATHEMATICS FOR COMPETITIVE EXAMINATIONS-I	NMA 504	<ul style="list-style-type: none">To prepare the students for competitive examinations	<ul style="list-style-type: none">to approach competitive examinations with less anxiety and fear.	Regional/ National



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Name of the Programme: MSc. Mathematics

S No	Title of the Paper	Course Code	Course Objectives	Course Outcomes	Relevance
1	MATHEMATICAL STATISTICS	M748	<ul style="list-style-type: none">To study and apply sampling theory, significance tests, estimation, testing of hypothesis and design of experiments	<ul style="list-style-type: none">understand Sampling and Sampling distributions.illustrate the methods of finding Estimatorsdetermine Parametric point and Interval Estimation.perform hypothesis testing , justify hypothesis testing to Sampling problems and to determine confidence Intervals.define the basic terms used in design of experiments and use appropriate experimental designs to analyze the experimental data.	Regional/ National

2	SKILL ENHANCEMENT COURSE I – ALGEBRA	M749B	<ul style="list-style-type: none"> • To develop broad and balanced knowledge and understanding of definitions, concepts, theorems and principles. • To enhance the ability of learners to apply the knowledge and skills acquired by them during the programme to solve specific theoretical and applied problem in Mathematics. • To empower students to crack competitive examinations such as NET, SET and TRB and to complement the theoretical content of the subject with exercise problems. 	<ul style="list-style-type: none"> • disseminate new and innovative knowledge that will make them fit for any competitions in job opportunities. • apply new tangents or to exercise their knowledge and skill in other disciplines. • develop, prioritize, demonstrate display, and disseminate newer versions and to interpret in novel ways. • bringout the flair for new and continuous learning process. • build the dexterity. 	Regional/ National
3	SKILL ENHANCEMENT COURSE II – LINEAR ALGEBRA	M852B	<ul style="list-style-type: none"> • To develop broad and balanced knowledge and understanding of definitions, concepts, theorems and principles. • To enhance the ability of learners to apply the knowledge and skills acquired by them during the programme to solve specific theoretical and applied problem in Mathematics. • Toempower students to crack competitive examinations such as NET, SET and TRB and to complement the theoretical content of the subject with exercise problems 	<ul style="list-style-type: none"> • disseminate new and innovative knowledge that will make them fit for any competitions in job opportunities. • analyze new tangents or to exercise their knowledge and skill in their own disciplines. • develop, give examples, demonstrate display, and disseminate newer versions and to interpret in novel ways. • bringout the flair for new and continuous learning process. • build the dexterity. 	Regional/ National

4	SKILL ENHANCEMENT COURSE III – REAL ANALYSIS	M957B	<ul style="list-style-type: none"> Empowering students to crack competitive examinations such as NET, SET and TRB. To complement the theoretical content of the subject with exercise problems. 	<ul style="list-style-type: none"> apply the theoretical knowledge in solving problems. attempt competitive examinations such as NET, SET and TRB. Extend their knowledge of Lebesgue theory of integration by selecting and applying its tools for further research in this and other related areas Recognize the need of concept of measure from a practical view point. Understand the nature of abstract mathematics and explore the concepts in further details 	Regional/ National
5	CERTIFICATE COURSE – MATHEMATICS FOR COMPETITIVE	M952X	<ul style="list-style-type: none"> To prepare the students for competitive examinations 	<ul style="list-style-type: none"> make critique of quantitative information using proportional reasoning Interpret and compare weighted averages, indices, ranking. identify uses and misuses of percentages related to a proper understanding of the bases. 	Regional/ Nation
6	STOCHASTIC PROCESSES	M1052A	<ul style="list-style-type: none"> To introduce to the students the basic ideas of Stochastic processes, Markov chains, Markov process and Renewal process and to motivate research in these areas 	<ul style="list-style-type: none"> demonstrate the basic concepts of Stochastic process, Markov chains. identify the type of the distribution apply the concepts in practical problems compose and evaluate simple Markovian Queueing models. analyze and evaluate renewal equations 	Regional/ National

39	STATISTICAL AND NUMERICAL METHODS (FOR MCA)		<ul style="list-style-type: none"> • This course aims at providing the necessary basic concepts of a few statistical and numerical methods and give procedures for solving numerically different kinds of problems occurring in engineering and technology 	<ul style="list-style-type: none"> • analyze various methods for testing of hypothesis. • understand numerical methods for finding the solution of some problems upto a desired degree of accuracy. • identify the numerical problems to be more competitive in computation. • employ numerical methods for approximation. • evaluate and formulate solutions of equations and eigen value problems. 	Regional/ National
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Name of the Programme: B. Sc Physics

S. No	Title of the Paper	Course Code	Course Objectives	Course Outcomes	Relevance
1	PHYSICS MAIN PRACTICAL'S – I	PP207	<ul style="list-style-type: none"> To determine the Young's modulus of materials in the form of a beam. To calibrate voltmeter and ammeter using potentiometer. To determine the viscosity and surfacetension of liquids. To learn the usage of spectrometer and to determine the refractive index of material of a prism.. To construct basic logic gates using discrete components and verify their truth tables. To construct low range power pack and stabilized power supply circuits and measure their outputs 	<p>On successful completion of the course, the students will be able to</p> <ul style="list-style-type: none"> Acquire laboratory skills/practical skills, a capacity for self management and teamwork,. They will be able to handle optical, electrical and electronic instruments effectively to take measurements/observations. Develop analytical and scientific reasoning skills. They will be able to analyze the measurements/observations to draw valid conclusions. Determine the Young's modulus of materials in the form of beam, the rigidity modulus of materials in the form of wire, Viscosity, surface tension and Interfacial surface tension of liquids and recall the theory behind the experiments. State the laws of transverse vibration of strings and measure the frequency of tuning forks and ac using sonometer. 	Regional & National developmental needs

				<ul style="list-style-type: none"> • Determine the focal length of convex and concave lenses, measure the refractive index of material of a prism using spectrometer and estimate the thickness of a thin wire by forming air wedge. • Design experiment to study the characteristics of Zener diode, construct stabilized power supply using zener diode, construct basic logic gates using diodes and transistor and examine their operation. 	
2	ELECTRICITY AND MAGNETISM	P312	<ul style="list-style-type: none"> • To introduce to the students the basic concepts of Electrostatics • To make the students understand concepts on working and applications of capacitors and electrometers • To explain the principle and working of Potentiometer and Carey Foster's Bridge. Also to understand the working of LCR and resonance circuits. 	<p>On successful completion of course, the students will be able to</p> <ul style="list-style-type: none"> • Explain and differentiate between electric field and electric potential and also illustrate the coulomb's law and its applications • Understand the functions and the basic principles of capacitors and electrometers. • Explain the working principle of Carey-Foster bridge and Potentiometer and apply their knowledge to set up experiments in the laboratory. 	Regional & National developmental needs

			<ul style="list-style-type: none"> To provide an overview of the fundamental principles of Coulomb's law, Biot-Savart law and magnetostatics. To make the students understand the various types of magnetism. 	<ul style="list-style-type: none"> State and explain various laws of magnetostatics and illustrate their applications. <p>Compare the properties of Dia, Para and Ferro magnetic materials and identify the form of magnetism possessed by a material</p>	
3	OPTICS	P313	<ul style="list-style-type: none"> To impart the knowledge on angular dispersion produced by prism, aberrations in lenses and methods of minimizing them in thin lenses. To understand the basic phenomena of interference and determination of thickness of a thin wire and refractive index of medium by using various interference experiments To explain the diffraction of light and classify Fresnel's and Fraunhofer diffraction with illustration of necessary theory and experiments. 	<p>On successful completion of the course, the students will be able to</p> <ul style="list-style-type: none"> Differentiate the various aberrations in lenses and describe different methods of minimizing them. Explain the phenomenon of interference and illustrate interference experiments to find the thickness of a thin wire and refractive index of medium Exemplify the diffraction of light and compare the Fresnel's and Fraunhofer diffraction of light with an illustrative diffraction experiments Compare the different types of polarization of light waves and analyze the optical characteristics when the light is passing through the crystals 	Regional & National developmental needs

			<ul style="list-style-type: none"> • To Illustrate the polarization of light waves, their types and explain the various optical activity produced when the light passing through the crystal. • To apply the LASER/MASER action produced in the material; analyze the principle, working mechanism and applications. 	<ul style="list-style-type: none"> • State the principle of LASER/MASER action in materials and set up experiments to demonstrate the working mechanism of CO₂ and semiconductor lasers 	
4	PHYSICS MAIN PRACTICALS – II	PP413	<ul style="list-style-type: none"> • To determine the Young's modulus of materials in the form of a beam by subjecting them to Uniform and Nonuniform bending. • To calibrate voltmeter and ammeter using potentiometer. • To determine the viscosity and surfacetension of liquids. • To learn the usage of spectrometer and to determine the wavelength of spectral lines. 	<p>On successful completion of the course, the students will be able to</p> <ul style="list-style-type: none"> • Use the spectrometer to estimate the wavelength of spectral lines and the refractive index of materials • Inspect the effective usage of Potentiometers, Careyfooster's bridge and BG • Describe the working of microscope and the telescope and use them effectively • Recall the logic functions of basic logic gates and design arithmetic circuits using discrete components and ICs 	Regional & National developmental needs

			<ul style="list-style-type: none"> • To verify the logic functions of basic logic gates and design arithmetic circuits using discrete components and ICs. • To construct analog dual power supply and voltage stabilization circuits and measure their outputs. 	<ul style="list-style-type: none"> • Construct analog dual power supply circuits and voltage stabilization circuits and measure their outputs 	
5	ALLIED PHYSICS PRACTICALS FOR CHEMISTRY	PAP409 A	<ul style="list-style-type: none"> • To perform experiments on elasticity of materials and viscosity of liquids • To demonstrate an experiment to determine the frequency of ac mains • To perform experiments on interference of light waves and its applications. • To do calibration of voltmeter and ammeter using potentiometer • To design simple analog and digital electronic circuits. 	<p>On successful completion of the course, the students will be able to</p> <ul style="list-style-type: none"> • Apply their knowledge on properties of matter to perform experiments to determine the Young's modulus and Rigidity modulus of materials and viscosity of liquids • Perform an experiment to determine the frequency of ac mains using sonometer and analyze the result obtained. • Set up Newton's rings and air wedge experiments and apply their knowledge on interference of light waves to determine the refractive index of material of a lens and thickness of a wire. • Use potentiometer to calibrate low range voltmeter and high range ammeter and explain the principle behind the experiment. 	Regional & National developmental needs

				<ul style="list-style-type: none"> Recall the logic function of different logic gates and employ them to construct simple electronic circuits. 	
6	ALLIED PHYSICS FOR COMPUTER SCIENCE –I	AP309B	<ul style="list-style-type: none"> To make the students to explore the Physics in active devices and also to introduce the concept of semiconductors and their working principles To explore the principles and applications of passive devices. To understand the series and parallel circuits and their short and open circuits in real time applications. To induce the minds of the students to understand the principle and applications of LASER in science and technology. To make the students the importance of the optical fiber communication, LED, Photoresistor and solar cell. 	<p>On successful completion of the course, the students will be able to</p> <ul style="list-style-type: none"> Analyze the functions of active devices especially diodes and transistors. Calculate the values of resistors and capacitors from the colour coding and understand the importance of the passive devices in everyday life. Identify the short and open circuits in complex circuits which consist of series and parallel components. Realize the importance of LASER in modern science and technology. Understand the working principle of fiber optic cable, LED, LCD, photoresistor and solar cell. 	Regional & National developmental needs
7	ALLIED PHYSICS FOR COMPUTER SCIENCE – II	AP409B	<ul style="list-style-type: none"> To introduce the fundamental concepts and working principles of various semiconductor devices and their 	<p>On successful completion of the course, the students will be able to</p> <ul style="list-style-type: none"> Understand the working principle of JFET and design rectifier circuits. 	Regional & National developmental needs

			<p>applications.</p> <ul style="list-style-type: none"> • To introduce the basic concepts of operational amplifier and its various applications. • To familiarize the switching characteristics of transistor, various multivibrators, applications of diode as integrator, differentiator, clipper and clamper. • To familiarize with the different number systems and combinational circuits utilized in the digital circuits. • To study the working of various flip-flops, registers, counters and their applications. 	<ul style="list-style-type: none"> • Apply knowledge on op-amp to design and analyze various applications of op-amps. • Understand the working of multivibrators and design wave shaping circuits. • Gain knowledge of different types of number systems and their mutual conversions, State and prove DeMorgan's theorems and Explain the working principle of combinational circuits. • Construct and evaluate the performance of flip-flops, registers and counters. 	
8	ALLIED PHYSICS PRACTICALS FOR COMPUTER SCIENCE	PAP409 B	<ul style="list-style-type: none"> • To have an hands on training to handle the electronic components and bread board • To construct the logic circuits and demonstrate the output by truth tables • To realize the importance of calibration of voltmeter and galvanometer 	<p>On successful completion of the course, the students will be able to</p> <ul style="list-style-type: none"> • Handle the electronic components for constructing electronic circuits. • Construct logic gate circuits. • Calibrate voltmeter and galvanometer. • Verify the Physics laws especially Ohms law and De Morgan's theorem. 	Regional & National developmental needs

			<ul style="list-style-type: none"> • To verify the theorems and Physics laws using passive and active devices • To construct stabilized power supply by them self 	<ul style="list-style-type: none"> • Construct stabilized power supply. 	
9	SEMICONDUCTOR DEVICES AND THEIR APPLICATIONS	P535	<ul style="list-style-type: none"> • To introduce diodes and their types along with their applications • To provide an overview of the principles, operation and applications of FET, MOSFET, UJT and SCR. • To Provide an overview of small signal and large signal amplifiers. • To Inculcating basic concepts about oscillators, their construction and working. • To introduce an operational amplifier and their linear and non-linear applications. 	<p>On successful completion of the course, the students will be able to</p> <ul style="list-style-type: none"> • explain the implications of characteristics of various types of diodes and different rectification process. • acquiring knowledge on Fabrication of a transistor, JFET, MOSFET, UJT and SCR • demonstrate the basic concept behind the working of a transistor amplifier, and able to explain the working of R-C coupled amplifier and calculate the gain of multistage amplifiers. • demonstrate the basic concept behind the working of an oscillator and multivibrators. • solving various mathematical operations like summing, difference, integrators, differentiators, sign changers etc., using operational amplifier 	Regional & National developmental needs

10	SUBJECT ELECTIVE - I: RENEWABLE ENERGY AND ENERGY HARVESTING	P538C	<ul style="list-style-type: none"> • To make the students to understand the importance of fossil fuels, conventional energy resources. • To provide a complete idea of basic components of a typical solar collectors and its applications in the solar energy absorption equipment's. • To make the students to analyze the dissimilarity between Horizontal axis and vertical axis WECS. • To enable the students to comprehend the concept behind various energy sources including biomass, tidal energy and hydrogen energy. • To give a basic knowledge about various methods of energy harnessing, storage systems and distribution. 	<p>On successful completion of the course, the students will be able to</p> <ul style="list-style-type: none"> • Explain the basic ideas on commercial and non-conventional energy resources and illustrate their availability. • Explain the construction and designing of solar collectors and its implementation in the solar energy equipments. • Demonstrate the variance in the operation of vertical axis and horizontal axis WECS and its installation towards power production. • Infer the knowledge on various energy sources including ocean, tidal and biomass conversion technologies. • Realize the need of energy harvesting and describe the methods of storage systems to achieve the sustainability in the energy sector. 	Regional & National developmental needs
11	SUBJECT ELECTIVE II: MEDICAL PHYSICS	P539C	<ul style="list-style-type: none"> • To provide a knowledge on the physics principles involved in the pressure system, optical system, dynamics of human body and acoustics of human body. 	<p>On successful completion of the course, the students will be able to</p> <ul style="list-style-type: none"> • Explain and differentiate the various physics principles involved in the dynamics of human body and in the pressure system, optical system, and acoustics of human 	Regional & National developmental needs

			<ul style="list-style-type: none"> • To understand radiation exposure and its measurement and the working mechanism of different radiation detectors. • To learn the principles and instrumentation involved in various diagnostic systems. • To enable the students to understand the principle, instrumentation and working of biological imaging systems. • To create awareness on radiation hazards and protection against radiation hazards. 	<p>body.</p> <ul style="list-style-type: none"> • understand and distinguish the various units used in radiation exposure measurement and describe the working mechanism of different radiation detectors. • Demonstrate an understanding of working principle and instrumentation of various diagnostic systems. • understand the principle, instrumentation and working of biological imaging systems and evaluate their merits and demerits. • Describe various radiation hazards and design equipment for protection against radiation hazards. 	
12	ASTROPHYSICS	P720C	<ul style="list-style-type: none"> • To introduce the students to universe and its evaluation. • To impart knowledge on galaxies and its types. • To understand the basic structure and properties of milky way galaxy. • To provide an overview of solar system. • To learn methods of estimating astronomical distances and temperature and radius of stars 	<p>On successful completion of the course, the students will be able to</p> <ul style="list-style-type: none"> • Understand and explain the origin of Universe and predict the present age of the universe. • Describe the classification of galaxies. • Acquire basic knowledge of milky way galaxy and its properties. • Explain the Solar system and its origin. • Estimate astronomical distances and temperature and radius of stars. 	Regional & National developmental needs

13	SELF STUDY: LASER PHYSICS AND FIBER OPTICS	P541SP1	<ul style="list-style-type: none"> • To introduce the students to the basic principles of LASER. • To provide a knowledge on various types of LASERs. • To enhance the knowledge of different applications of LASER in Material Processing and Electronics Industry. • To familiarize the applications of LASERS in Nuclear Energy and medicine. • To provide an opportunity for the students to learn about Optical fibres and Optical fibre communication system. 	<p>On successful completion of the course, the students will be able to</p> <ul style="list-style-type: none"> • Explain the basic principle of Laser emission. • Examine the working principle and design considerations of various lasers. • Outline the applications of laser in industries. • Gain knowledge on applications of Lasers in fields such as Nuclear Energy, Medicine and Surgery. • Comprehend the significance of optical fibre communication system. 	Regional & National developmental needs
14	APPLIED ELECTRONICS	P631	<ul style="list-style-type: none"> • To learn about basic logic gates, DeMorgan's theorems, Simplification of Boolean expressions and implementation of logic circuits using NAND-NAND logic. • To learn design, working and truth table of combinational circuits. • To study about different logic families and flip flops. 	<p>On successful completion of the course, the students will be able to</p> <ul style="list-style-type: none"> • Simplify Boolean expressions using K-map and design NAND-NAND logic circuits. • Construct arithmetic circuits and explain their operation. • Compare different logic families and explain the working of various flip flops. 	Regional & National developmental needs

			<ul style="list-style-type: none"> To understand the working of Shift registers, Asynchronous counters and Synchronous counters. To study about the different types of ADC and DAC and the architecture and applications of timer IC 555. 	<ul style="list-style-type: none"> Acquire a knowledge on Shift registers and counters and construct different Modulus counters. Explain the working of different types of ADC and DAC and predict their output voltage and describe the architecture and applications of timer IC 555. 	
15	PHYSICS MAIN PRACTICALS – III (GENERAL EXPERIMENTS)	PP615	<ul style="list-style-type: none"> To familiarize the students with physics concepts and experiments. To acquaint the importance of practical experiments to students. To develop an understanding among students about conversion of a galvanometer into voltmeter and ammeters. To train the students in handling physics experiments. To facilitate the students for handling spectrometer and B.G experiments. 	<p>On successful completion of the course, the students will be able to</p> <ul style="list-style-type: none"> Design a circuit to convert a galvanometer into voltmeter and ammeter with desired calibration. Apply the knowledge on potentiometer to estimate the EMF of a thermocouple. Estimate the value of g using compound pendulum. Recall the concept of Young's modulus and evaluate the young's modulus of the material of the given bar. Demonstrate experiments using spectrometer to determine the dispersive power of prism and refractive index of the material of the prism Determination of wavelength of Laser light using diffraction at a single slit 	Regional & National developmental needs

16	PHYSICS MAIN PRACTICALS – IV (ELECTRONIC EXPERIMENTS)	PP616	<ul style="list-style-type: none"> • To construct Halfsubtractor, Full subtractor, 4 bit binary adder and 4 bit binary subtractor circuits using ICs and verify their truth tables. • To simplify the given Boolean expressions using Karnaugh map, construct NAND-NAND circuit for the simplified expression and verify the truth table. • To design Inverting and Non inverting amplifiers, Summer, Subtractor, Differentiator and Integrator circuits using OPAMP. • To learn to construct amplifiers, Oscillators and Multivibrators using Transistors and measure their outputs. • To write assembly language programs for performing Addition, Subtraction, Multiplication, Division, Arranging the numbers in ascending order and in descending order and execute them using 8085 microprocessor and verify the results. 	<p>On successful completion of the course, the students will be able to</p> <ul style="list-style-type: none"> • Construct Halfsubtractor, Full subtractor, 4 bit binary adder and 4 bit binary subtractor circuits using ICs and verify their truth tables. • Simplify given Boolean expressions using Karnaugh map, construct NAND-NAND circuit for the simplified expression and verify the truth table. • Design Inverting and Non inverting amplifiers, Summer, Subtractor, Differentiator and Integrator circuits using OPAMP. • Construct amplifiers, Oscillators and Multivibrators using Transistors and measure their outputs. • Write assembly language programs for performing Addition, Subtraction, Multiplication, Division, Arranging the numbers in ascending order and in descending order and execute them using 8085 microprocessor and verify the results. 	Regional & National developmental needs
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17	SUBJECT SKILL – I : ELECTRICAL CIRCUITS AND NETWORKS (THEORY)	P634S	<ul style="list-style-type: none"> • To develop an understanding of the basics of electrical devices and circuits. • To understand the fundamental laws of electrical circuits and various circuit analysis theorems. • To develop an understanding of single-phase and three-phase AC. • To know the effect of open circuits and short circuits • To impart knowledge of domestic wiring and circuit breakers. 	<p>On successful completion of the course, the students will be able to</p> <ul style="list-style-type: none"> • Understand the symbols and working principles of electrical devices and circuits • Analyze electrical circuits (DC and AC) using mesh and network simplification theorems. • Differentiate between single-phase and three-phase AC and explain the working of AC circuits. • Explain the effects of shorts and opens in series and parallel circuits. • Understand domestic electrical wiring and the working of circuit breakers 	Regional & National developmental needs
18	BASIC INSTRUMENTATI ON	P641S	<ul style="list-style-type: none"> • To develop knowledge of principles and working of various analog meters. • To understand the principle and working of analog electrical instruments. • To impart knowledge of principles and working of digital instruments. • To learn about the working principle of various optical instruments used in measurement of physical quantities. 	<p>On successful completion of the course, the students will be able to</p> <ul style="list-style-type: none"> • Acquire knowledge about the working principles of various analog meter instruments. • Understand the operation of various analog electrical instruments. • Differentiate between digital and analog instruments and explain their working. • Outline the working principle of various optical instruments. 	Regional & National developmental needs

			<ul style="list-style-type: none"> To develop the skill of usage of environmental instruments. 	<ul style="list-style-type: none"> Gain knowledge on the working and applications of various environmental instruments. 	
19	NON MAJOR ELECTIVE –I : REPAIR AND MAINTENANCE OF HOUSEHOLD APPLIANCES	NPH503	<ul style="list-style-type: none"> To provide an understanding of the basics of electricity and electrical safety. To enable the students to understand the importance of earthing and energy storage devices. To expose the students to the principles and working of home appliances. To learn fault finding and replacing faulty component in electric iron. To train the students in Repaire and Maintenance of home appliances. 	<p>On successful completion of the course, the students will be able to</p> <ul style="list-style-type: none"> Recall the safety precautions and apply them whenever it is necessary Understand the importance of earthing and acquire a knowledge on energy storage devices Identify the fault in an electric iron box and rectify it Explain the working of mixer, grinder, ceiling and table fans. Install and test fluorescent lamp chock and starter 	Regional & National developmental needs

20	PHYSICS REVISITED SSP	P643SP1	<ul style="list-style-type: none"> • To enable the students to revise the concepts of mechanics, oscillations, waves, Black body radiation. • To recollect the concepts of thermodynamics and statistical physics. • To revisit the contents of Quantum mechanics • To help the students to review the concepts in Atomic and Nuclear Physics. • To understand the significance of semiconductor devices and their applications, this would help them to perform better in competitive examinations. 	<p>On successful completion of the course, the students will be able to</p> <ul style="list-style-type: none"> • Recollect the basic concepts in mechanics, Waves and oscillations and explain black body radiation. • Recall the laws of thermodynamics, classical and quantum statistics. • Formulate the Schrodinger wave equation for free state and bounded state problems and evaluate the energy eigen value • Summarize the concepts in Atomic and Nuclear Physics. • Outline the working principle of semiconductor devices . 	<p>Regional & National developmental needs</p>
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Name of the Programme: M. Sc Physics

S No	Title Of The Paper	Course Code	Course Objectives	Course Outcomes	Relevance
1	Advanced Physics Practicals	PP809	<ul style="list-style-type: none"> To provide the students with a broad understanding of experimental procedures, calculations of some physical parameters such as young's modulus, viscosity To help the students towards the critical and creative thinking through few spectroscopic experiments To make the students to evaluate the electrical resistivity and conductivity of semiconducting materials To empower the students to demonstrate few heat experiments To train the students towards the skill development of advanced general physics experiments 	<ul style="list-style-type: none"> Do Young's modulus experiments and to calculate the young's modulus, poisson's ratio and viscosity for the given materials Set up the apparatus to get the spectra of light sources such as hydrogen, arcs of alloys/metals etc. Determine the electrical conductivity and resistivity of a semiconducting material using four probe apparatus Obtain the saturation temperature of a black body and hence they are able to calculate the stefan's constant and temperature coefficient of thermistor Do themselves independently few advanced general experiments such as half shade polarimeter, Planck's constant experiment 	regional developmental needs

2	Elective: Microprocessor 8085 And Microcontroller 8051	P823A	<ul style="list-style-type: none"> To illustrate the architecture and interrupts of 8085 Microprocessor. To familiarize students with instruction sets, addressing modes and programming of 8085 microprocessor. To familiarize the students with interfacing of memory with 8085microprocessor. To illustrate the architecture of 8051 Microcontroller. To familiarize students with instruction sets, addressing modes and programming of 8051 Microprocessor. 	<ul style="list-style-type: none"> Gain knowledge about architecture and working of 8085 Microprocessor. Develop assembly language programs using various programming tools in 8085 Microprocessor. Illustrate how the different peripherals are interfaced with 8085Microprocessor. Understand the internal design of 8051 microcontroller along with the features. Develop assembly language programming to design microcontroller-based systems. 	regional developmental needs
3	Self-Study Paper: Dielectric Spectroscopy		<ul style="list-style-type: none"> To understand polarization and its dependence on frequency and temperature To comprehend impedance spectrum and modulus spectrum To derive the contribution to electrical conductivity due to grains and grain boundaries To apply the hands on training and to interpret the data To analyze the AC and DC conductivity of the dielectric materials 	<ul style="list-style-type: none"> Understand the various polarization mechanisms and dependence of polarization on frequency and temperature Explain the principle and construction of instrumentation and sample preparation Separate the contribution to electrical conductivity due to grains and grain boundaries Analyse the importance of the real and imaginary part of the modulus spectrum Collect data and to interpret the data 	Regional developmental needs
4	C Programming And Research Methodology	P919	<ul style="list-style-type: none"> To introduce to the students the fundamentals of C programming. To enhance skill on problem solving by constructing algorithm/program. To familiarize the students with the nature of research and scientific writing. 	<ul style="list-style-type: none"> Explain the fundamental concepts of C programming and applications in problem solving. Develop programs using the basic elements like control statements, arrays, strings and functions. Identify the good research problems and formulate the research design. 	Regional developmental needs

			<ul style="list-style-type: none"> To introduce to the students various quality metrics to be followed while publishing paper. To analyze, interpret and evaluate scientific hypotheses and theories using rigorous methods such as statistical and mathematical techniques. 	<ul style="list-style-type: none"> Write quality research papers and publish them in reputed journals. Analyze the data with the use of appropriate tools and create the qualitative and quantitative solutions to problems. 	
5	Elective: Nanoscience And Technology	P920A	<ul style="list-style-type: none"> To provide an introduction to nanomaterials, their properties and applications. To know about synthesis of nanomaterials To acquire knowledge about the preparation of nanomaterials by physical methods To understand basic principles and instrumentation To introduce to various thin films deposition techniques and characterization techniques. 	<ul style="list-style-type: none"> Develop an understanding of nanomaterials applications Understand Advantages and disadvantages of chemical method Know the methods of nanomaterial preparations Acquire in depth knowledge about various characterization techniques which will in turn kindle their research interest. Know some of the applications of Nanomaterials and thin films that are applicable in day today life. 	Regional developmental needs
6	Nuclear And Particle Physics	P1016	<ul style="list-style-type: none"> To provide brief introduction on the basic concept of nucleus including size, force and nuclear models To impart the knowledge on two body system and nuclear interaction. To provide an in-depth knowledge on types of nuclear reactions and its relation To enhance the knowledge about various fundamental particles, their decay and transitions. 	<ul style="list-style-type: none"> Differentiate the different models of the nucleus and apply their idea in calculating the parameters theoretically. Solve the two body problems in connection with nuclear interaction Be able to identify the reason behind the mode of decay, transitions between the nuclear decays and have strong physical reasoning and problem solving skill and able to find solutions to the problems related with nuclear physics Be able to demonstrate the different types of nuclear reaction and its applications in day today life including nuclear fission, fusion and its role in the construction of nuclear reactor. 	regional developmental needs

			<ul style="list-style-type: none"> To make the students to understand about the basic ideas on elementary particles and its classifications and interaction of quarks 	<ul style="list-style-type: none"> Be able to explain the basic concept of elementary particles based on the combination quarks projection and also acquire knowledge on strong and weak interaction. 	
7	Microprocessor, Microcontroller And C Programming Experiments	PP1010	<ul style="list-style-type: none"> To develop the skill of understanding Instruction sets and opcode of 8085 microprocessor and 8051 Microcontroller. To familiarize the students with interfacing with 8085 microprocessors to other Input/output devices. To enable students to write assembly language programs for software and interfacing devices. To familiarize the students about the C programming. To analyze and evaluate the various theories, statistical methods and mathematical techniques using C programming 	<ul style="list-style-type: none"> Write assembly level language programs for both software and hardware interfacing using 8085 microprocessors. Write an assembly level language programs for software and hardware interfacing using 8051 microcontrollers. Understand the different applications of microprocessor and microcontroller. Develop C programs using the basic elements like control statements, arrays, strings and functions. Use appropriate mathematical techniques and concepts to obtain quantitative solutions to problems in Physics using C program. 	Regional developmental needs
8	Elective: Reactor Physics	P1017B	<ul style="list-style-type: none"> To make the students to understand the concepts of nuclear reaction, cross section and chain reaction. To make the students to differentiate between the types of neutrons produced in a nuclear reaction and the concept of neutron diffusion. To provide an in-depth knowledge of fuels and materials used for the nuclear energy production. To explain the concept of moderation of neutron in a nuclear reactor and its critical condition in the operation of a nuclear reactor 	<ul style="list-style-type: none"> Understand the basic ideas of nuclear reaction, cross section and the process of chain reaction. Identify and differentiate the various energy ranges of neutrons produced in a chain reaction and its diffusion property Explain and analyze the properties of fuels and materials used in a typical reactor Demonstrate the importance of neutron production and critical condition through diffusion equation Apply the knowledge chain reaction ,able to calculate the critical value for a typical nuclear reactor and understand the working concept of different reactors and their applications. 	Regional developmental needs

			<ul style="list-style-type: none">• To provide an extravagant details on the types of nuclear reactors and it working principle.		
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Name of the Programme: B Sc. Chemistry

S No	Title of the Paper	Course Code	Course Objectives	Course Outcomes	Relevance
1.	ANALYTICAL CHEMISTRY – I	CH117	<ul style="list-style-type: none">To learn the safety practices and precaution in the laboratory while handling the chemicals and to maintain the laboratory hygiene and to learn the concepts of common waste chemical management.To learn the various separation techniques to analysing the chemicals.To develop the sound knowledge about the chromatographic techniques and its applications.To illustrate the various types of titration and applications of indicators in volumetric analysis.To learn the principle and	<ul style="list-style-type: none">On successful completion of this Course, students will be able toLearn the safety practices in the laboratory while handling the hazardous chemicals.Identify the appropriate separation procedures and its description.Describe the principles of various chromatographic techniques and apply their knowledge to analyze the chemicals with suitable techniques.Explain the concepts and types of titrations and calculate the strength of solutions using various methodology.Outline the principle behind gravimetric analysis, thermal analysis and list out their	Regional, developmental needs

			<p>applications of different types of thermal analysis and their significance in the analytical chemistry.</p> <ul style="list-style-type: none"> To learn and prepare the solution with different units and find out the accuracy of the concentration. 	<p>applications.</p> <ul style="list-style-type: none"> Prepare solutions of desired concentration and employ them in estimations. 	
2.	PHYSICAL CHEMISTRY – I	CH217	<ul style="list-style-type: none"> To understand the important behaviour of gases and liquids Realize the concept of thermodynamics and appreciate the different terminologies used to describe the same Appreciate the differences between real and ideal gases, the laws of thermodynamics and their applications Derive the gas laws based by the kinetic theory of gases and understand the collision theory of gaseous molecule Can describe the measurement of different properties of liquids Estimate the enthalpy changes of chemical processes based on thermodynamics parameters 	<ul style="list-style-type: none"> On successful completion of this Course, students will be able to Define the fundamental concepts of thermodynamics, kinetic theory of gases, and the theory of liquid state. Discuss the nature of ideal and real gases, thermodynamic laws, the measurement of various properties in the liquid state, describe Joule-Thomson effect. Use kinetic theory of gases to derive gas laws, apply Hess's Law and Kirchoff's equation; distinguish between different thermodynamic terms, real and ideal gases; apply Linde's and Claudes Process for liquification Calculate various enthalpy changes based on thermodynamic parameters. Formulate the collision theory of gas molecules, describe the measurement of properties of liquid, appraise the difference between C_v and C_p Infer endothermic and exothermic processes, evaluate properties 	Regional developmental needs

				related to collision of gas molecules and different bond enthalpies	
3.	ALLIED CHEMISTRY-I (MATHS AND PHYSICS)	ACH308	<ul style="list-style-type: none"> To learn the electronic configuration of atoms, periodicity of elements and Chemical bonding To understand the Structure and bonding of Co-ordination compounds To learn the principles of Organic Chemistry, Organic reactions and mechanism 	<ul style="list-style-type: none"> To understand the fundamental concepts of Inorganic chemistry and learn to apply them Explain the shapes and properties of elements based on their periodic properties Compare the different types of bonding and analyses the molecules based on them Explain the concepts of coordination chemistry and compile the role of elements in human body Understand the fundamentals of organic chemistry and classify the compounds Compare different organic reactions and evaluate their applications 	Regional developmental needs
4.	ORGANIC CHEMISTRY – III	CH416	<ul style="list-style-type: none"> Understanding the fundamentals of organic spectroscopy. Understanding Aromatic compounds. Understanding the reactivities of carbonyl compounds. Learning radical reactions. 	<ul style="list-style-type: none"> Describe and understand the radical stability and radical reactions of alkyl substituents and benzene Relate and infer information organic molecules using the fragmentation pattern of functional groups by mass and IR spectra Justify the reactivity of aromatic systems and its aromaticity behaviour in benzene ring and heterocyclic systems. Attribute substituted benzene undergoing, nucleophilic aromatic substitution and addition-elimination reactions. Summarize and illustrate relative 	Regional developmental needs

				<p>reactivities of carboxylic acids and their derivatives</p> <ul style="list-style-type: none"> • Discuss and devise the reaction of acyl halides, anhydrides, and esters 	
5.	ALLIED CHEMISTRY LAB WORK (MATHEMATICS AND PHYSICS)	PACH409	<ul style="list-style-type: none"> • To learn the basics of analysis involved in estimating the amount of substances. • To acquire the practical knowledge about the analysis of organic compounds 	<ul style="list-style-type: none"> • Describe and determine the volumetric analysis and preliminary characteristics of organic compounds. • Calculate the concentration of an acid from the volume of base that neutralizes it and also Detect the extra element(s) present in organic compounds • Use the results from a titration experiment to calculate the unknown concentration of a solution and also Identify the functional groups of organic compounds. • Recall how to calculate the number of moles from concentration and volume and also prepare and devising the confirmative experiments based on functional groups. • Recognize the organic compound by comparing their confirmatory test. 	Regional developmental needs
6.	PROTEIN CHEMISTRY	CH550B	<ul style="list-style-type: none"> • To learn the chemistry of Amino acids and proteins. • To learn the importance of enzymes and enzyme catalysis 	<ul style="list-style-type: none"> • Explain the general concepts of drug design and discovery • Illustrate the essential concepts of SAR/QSAR • Explain the different concepts of computer aided drug design • Demonstrate how receptors and enzymes can act as targets for drug 	Regional developmental needs

				discovery	
7.	WATER CHEMISTRY AND INORGANIC MATERIALS OF INDUSTRIAL IMPORTANCE	CH642E	<ul style="list-style-type: none"> To learn the principles of Water Chemistry and industrial water treatment process To understand the principles and properties of Inorganic materials of Industrial importance. To study the significance and its applications of Inorganic materials of Industrial importance. 	<ul style="list-style-type: none"> Identify the water quality parameters learn to calculate them Describe the various processes involved in water treatment and compare them Understand the fundamental processes involved in glass manufacture and apply them for practical applications Differentiate the types of silicates and ceramics and classify them Explain and analyse the forms of cement and fertilizers available and formulate their uses Understand the various types of coatings available and learn to apply them 	Regional developmental needs
8.	CHEMISTRY LAB WORK – III GRAVIMETRIC ESTIMATIONS AND ORGANIC ANALYSIS	PCH621	<ul style="list-style-type: none"> To acquire sound practical knowledge in the gravimetric estimations. To prepare the students for analysing various organic compounds through systematic analysis. To enable the student to understand the principles behind the preparations of different organic compounds. 	<ul style="list-style-type: none"> demonstrate the the necessary practical skill to perform quantitative estimation gravimetrically analyze and identify qualitatively the functional group and nature of the given organic compound set-up synthesis of simple organic reactions 	Regional developmental needs



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Name of the Programme: M Sc. Chemistry

S No	Title of the Paper	Course Code	Course Objectives	Course Outcomes	Relevance
1	ORGANIC CHEMISTRY – I	CH716	<ul style="list-style-type: none">To know about the nature of aromaticity in the compoundsTo learn the kinetic and non-kinetic methods of determining organic reaction mechanism.To understand the substitution in aromatic and aliphatic reactions.	<ul style="list-style-type: none">Define and distinguish the organic compounds based on the nature of aromaticity and characterizing them using NMR techniqueInterpret the intermediates involved in various organic reactions and integrate the kinetic and non-kinetic methods in determining organic reaction mechanism.Relate and categorize the nucleophilic substitutions in aromatic and aliphatic molecules with mechanismPredict the product between electrophilic substitution in aromatic and aliphatic molecules reactivity and products formation with mechanismPredict and write the addition and elimination reactions and their	Regional developmental needs

				<p>mechanisms</p> <ul style="list-style-type: none"> • Formulate the synthetic routes based on addition/elimination reactions in synthetic organic chemistry 	
2	ELECTIVE – I: ANALYTICAL CHEMISTRY	CH719A	<ul style="list-style-type: none"> • To study the different types of molecular spectroscopy and NMR spectroscopy and its applications • To study the analytical techniques, instrumentation and applications 	<ul style="list-style-type: none"> • Explain and evaluate the theory and principle of electro analytical techniques, various factors involved in analysis and its applications. • Understand the fundamentals of microwave spectroscopy and how to identify molecules using structural factors like moment of inertia and intermolecular distances. • Explore the vibrating diatomic molecule, the simple harmonic oscillator, the anharmonic oscillator, and their applications in spectroscopy. • Illustration of Infrared Spectroscopy - Group frequencies Rotational and Vibrational Raman • Application of advanced chromatographic separation technique principles for isolation and characterization of compounds. • Identify and structurally categorize new using X-ray diffraction. Analyze nanomaterials using advanced electron microscopy characterization techniques. 	Regional developmental needs
3	ELECTIVE – III: PHARMACEUTIC AL CHEMISTRY	CH719C	<ul style="list-style-type: none"> • To understand the composition and the kinetics of drugs 	<ul style="list-style-type: none"> • Learn the terminologies and mechanism of action of drugs and analyse them • Discuss about the different types of 	Regional developmental needs

			<ul style="list-style-type: none"> To know the different types of drugs and its composition 	<p>drugs and their applications and evaluate their structures</p> <ul style="list-style-type: none"> Explain the causes of certain ailments and treatment and relate them Understand the extraction and uses of some specific drugs and categorize them Enumerate various therapeutic agents and combine them for potential applications Tabulate the various haematological factors assess their effects on human body 	
4	ORGANIC CHEMISTRY PRACTICAL – I	PCH813	<ul style="list-style-type: none"> To learn the separation of an organic compound from the mixture and identify them using various chemical tests. To enable the student to learn the methods of preparation for some organic compounds. 	<ul style="list-style-type: none"> Identify and relate the nature of the organic compound mixture given based on solubility and reactivity Demonstrate the systematic analysis and separation of organic compound mixture into individual components Experimenting organic chemistry theoretical knowledge into laboratory tests with respect to addition, oxidation, substitution reactions and other reactions Correlate functional group and corresponding derivatives formed during qualitative analysis in the laboratory Implement synthetic approach with single stage preparations in laboratory using oxidation, reduction etc. Build and reflect the synthetic ability to prepare and purify organic compounds from single stage reactions 	Regional developmental needs

5	REAGENTS IN ORGANIC CHEMISTRY SSP	CH817SP1	<ul style="list-style-type: none"> To know the mechanism of organic reaction by using the various reagents To understand the concept of stereochemistry of reactions 	<ul style="list-style-type: none"> Choose appropriate reagent based on the structure and functional group of the reactant molecule. Deduce mechanistic route for the reaction of reagent with reactant molecule and formation of products Detect the formation of products with specific stereochemistry in organic molecules based on the reaction type. 	Regional developmental needs
6	INORGANIC CHEMISTRY – III	CH919	<ul style="list-style-type: none"> To study about the basic theory of Inorganic spectroscopy. To illustrate the UV, IR and Raman spectral properties of some inorganic compounds and complexes. To study and illustrate the different types of magnetic behaviour in inorganic materials. To learn the basic concepts of superconductivity behaviour in the materials To apply the NMR, NQR, ESR and Mossbauer techniques in to simple inorganic systems. To learn the instrumentation of advance inorganic spectroscopy techniques. 	<ul style="list-style-type: none"> Students can recognize and interpret the spectroscopic techniques in terms of interaction of electromagnetic radiation with molecules Students can infer about the magnetic properties and superconductivity of materials and can able to calculate the magnetic susceptibility of the materials. Students can describe the principles and to interpret the instrumentation of various spectroscopic techniques. Students can illustrate the principle involved in ESR, NQR and Mossbauer Spectroscopy and distinguish chemical species using these spectroscopy Students can apply the principles of spectroscopy to predict the structure of compounds and analyse the various spectra of complexes Students can able to propose and formulate the structure of a new compound based on the spectroscopic 	local, regional ,national and global developmental needs

				data	
7	SPECTROSCOPY	CH920	<ul style="list-style-type: none"> To understand the concepts of spectral techniques To apply these techniques for the quantitative and structural analysis of organic compounds 	<ul style="list-style-type: none"> Demonstrate the understanding of electromagnetic spectrum and applied to study of chemical molecules. Validate knowledge of the principles of mass spectrometry and instrumentation. Predict number of signals, splitting pattern in the proton NMR of a compound and interpret NMR spectra of simple molecules. Identify the absorption frequencies of major functional groups and comprehend the electronic absorption and apply to interpret IR and UV-Vis spectra of simple organic compounds. Develop an ability for combined usage of mass spectrometry, UV-Vis., IR and NMR for structural elucidation. Analyse, evaluate and interpret the spectroscopic data effectively 	Regional developmental needs
8	ORGANIC CHEMISTRY – IV	CH1017	<ul style="list-style-type: none"> To know modern synthetic methods and synthetic strategies. This help in planning the synthesis of any types of organic compounds. To learn the synthesis and bio-synthesis of heterocyclic products. 	<ul style="list-style-type: none"> Define the modern synthetic terminologies/methods and build the synthetic strategies incorporated in retrosynthesis of various types of organic molecules Identify suitable protecting reagents for the protection of multifunctional organic molecules and predicting suitable deprotecting reagents after the completion of desired reaction. 	Regional developmental needs

				<ul style="list-style-type: none"> • Sketch various heterocyclic compounds structure with numbering and their interaction with various chemical reagents in detail. • Illustrate the importance of environmentally benign solvents and their role in synthetic organic reactions. • Validate the structure of various natural organic molecules and confirming their structure through total synthesis • Build the synthetic route theoretically for a given target molecule in retrosynthetic way with theoretical justification. 	
9	INORGANIC CHEMISTRY – IV	CH1018	<ul style="list-style-type: none"> • To illustrate the structure and bonding nature of Organometallic compounds and their reactions. • To study the various industrial importance and applications of organometallic compounds. • To study the fundamentals of nuclear chemistry and learn about the working principle of nuclear reactor. • To learn the MO theory and spectral behaviour in coordination compounds. • To learn the structure and function of bio – inorganic compounds. 	<ul style="list-style-type: none"> • Explain the bonding in organometallic compounds and illustrate the different types of reactions of complexes • analyze the catalytic properties of organometallic compounds and to integrate the application of these compounds in catalysis. • Discuss the aspects of nuclear chemistry and applications of nuclear fission and fusion reactions • Understand and apply the MO theory and construct the Orgel and Sugano - Tanabe diagrams for coordination complexes • Analyse the electronic spectra of complexes and can able to evaluate the Δ_0 and β 	Regional developmental needs

			<ul style="list-style-type: none"> To study the application of metals in medical field 	<ul style="list-style-type: none"> Review the importance of metallo biochemistry and conclude the role of metals in medicine 	
10	ORGANIC CHEMISTRY PRACTICAL – II	PCH1013	<ul style="list-style-type: none"> To learn practical skills about the estimation of some organic compounds using chemical procedures 	<ul style="list-style-type: none"> Analyze the unknown concentration of the given substance Synthesis and prepare simple organic compounds using a two stage process Relate and articulate the fundamental principles of volumetric estimations Examine and evaluate data collected to determine the identity, purity, and yield of products Develop methods for the estimation of organic substances volumetrically Investigate and interpret simple organic compounds using IR, UV, Mass and NMR spectroscopic data 	Regional developmental needs
11	INORGANIC CHEMISTRY PRACTICAL – II	PCH1014	<ul style="list-style-type: none"> To learn the methods and techniques to estimate inorganic metals. 	<ul style="list-style-type: none"> Learn about the methods and techniques to estimate inorganic metals Analyse the complex materials, alloys or ores and ions Detect the amount of mixtures of iron - magnesium, iron – nickel, copper - nickel and copper – zinc by Gravimetric and Volumetric Understand the principles of photo colorimetric method and be able to apply it for metal estimations Solve the spectra and interpreting it 	Regional developmental needs

12	PHYSICAL CHEMISTRY PRACTICAL- II	PCH1015	<ul style="list-style-type: none"> • To understand the principles that govern the basic electrochemical experiments • To learn the physical methods used in determination of parameters such as pH, conductance and EMF etc. 	<ul style="list-style-type: none"> • Learn and apply the principles of conductometry and potentiometry effectively for various titrations • Explain the conductometric titration of strong acid, weak acid and mixture of acids with strong Base. • Determine the equivalent conductance of strong electrolytes at infinite dilution and dissociation constant of weak electrolyte • Calculate the pH of a buffer solution using emf measurements • Prepare a salt bridge for potentiometric experiments. • Verify the various laws like Ostwald's dilution law and Kohlrausch's law conductometrically and design working electrodes 	local, regional ,national and global developmental needs
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Name of the Programme: B. Sc. Computer Science

S No	Title of the Paper	Course Code	Course Objectives	Course Outcomes	Relevance
1	PROBLEM SOLVING TECHNIQUES	CS120	<ul style="list-style-type: none"> To develop problem solving skills with top-down design principles. To become competent in algorithm design and program implementation. To develop skills to apply appropriate standard methods in problem solving 	<ul style="list-style-type: none"> Upon Completing the Course, Students will be able to: Develop programming techniques required to solve a given problem. Develop problem solving skill using top – down design principles. Design an algorithm for a problem. Develop techniques to handle array structure Develop techniques such as searching and sorting 	Regional
2	DIGITAL COMPUTER FUNDAMENTALS	CS221	<ul style="list-style-type: none"> To explore the Number System, Number Conversion from one Base to another Base and Complements. To understand the Logic Gates, Boolean Algebra and to design 	<ul style="list-style-type: none"> Perform conversions among different number systems, to be familiar with basic logic gates, Draw the Logic circuits and truth table for Boolean 	Regional

			<p>the Logical Circuits.</p> <ul style="list-style-type: none"> • To simplify the Boolean Functions using K-Map Method • To Learn Combinational circuits as Adders and Subtractors, Encoders and Decoders. • To Learn the different types of Flip-Flops such as SR Flip flop, JK Flip flop, T Flip flop and D Flip flop. 	<p>functions</p> <ul style="list-style-type: none"> • Simplify Boolean functions by using k-map method and Boolean Laws and Theorems. • Design of combinational circuits such as Adder, Subtractor, Multiplexer, Encoder and Decoder etc. • Understand the design of sequential Circuits such as Flip-Flops, Edge-trigger and master slave flip flops. 	
3	COMPUTER ORGANIZATION AND ARCHITECTURE	CS322	<ul style="list-style-type: none"> • To understand the basics of Computer Organization. • To know the relationship between computer instruction and the Machine code execution. • To know about the various types of CPU Organization and Addressing Modes. • To recognize the need of interface between CPU and Input / Output devices. • To think critically, independently, and quantitatively about Computer Memory. 	<ul style="list-style-type: none"> • Study basic computer organization, design and micro-operations. • Prepare machine code from the instructions • Understand CPU organization and different types of addressing modes. • Understand how the Input/ Output devices communicate with the computer • Learn various methods and techniques of memory organization. 	Regional
4	COMPUTER GRAPHICS	CS544 A	<ul style="list-style-type: none"> • Understand the Role and importance of Algorithms like Line drawing Algorithm, Circle drawing Algorithm, Character generating Algorithm. • Understand 2D and 3D Transformations. • Understand various Clipping 	<ul style="list-style-type: none"> • To provide comprehensive introduction about computer graphics system, design and two-dimensional transformations. • To make the students familiar with techniques of clipping, three dimensional graphics 	Regional

			<p>Algorithms like point clipping, line clipping and polygon clipping.</p> <ul style="list-style-type: none"> • Understand the importance of the User Dialogue and various input functions. • Understand the Visible Surface Detection Methods. 	<p>and three dimensional transformations.</p> <ul style="list-style-type: none"> • Prepares the students for activities involving in design, development and testing of modeling, rendering, shading and animation 	
5	MOBILE APPLICATIONS DEVELOPMENT	CS633	<ul style="list-style-type: none"> • To develop a mobile application. • To understand the concept of SQLite 	<p>Upon completion of this course, students should be able to:</p> <ul style="list-style-type: none"> • Describe the platforms upon which the Android operating System will run. • Create a simple application that runs under the Android operating system. • Access and work with the Android file system. • Create an application that uses multimedia under the Android operating system. • Access and work with database under the Android operating system. 	Regional
6	MICROPROCESSOR USING 8086/88	CS636	<ul style="list-style-type: none"> • To Understand the basic architecture of the Microprocessor • To learn the instruction sets of the processor • To write applications using assembly level language program • To study the input/output interfaces of the processor • To understand the importance of interrupts in programming 	<p>At the end of the course, students should be able to:</p> <ul style="list-style-type: none"> • Identify the types of instructions and the organization of registers and memory • Describe the translation model of assembly language to machine language. • Understand the micro-program by mapping the instructions. • Recognize the types of 	Regional

				<p>computer organizations.</p> <ul style="list-style-type: none"> • Accept the better ways of Parallel and Vector processing. 	
7	COMPUTER NETWORKS	CS637 A	<ul style="list-style-type: none"> • To learn the basic concepts of Computer Networks 	<ul style="list-style-type: none"> • To explain how communication works in computer networks and to understand the basic terminology of computer networks • To explain the role of protocols in networking and to analyze the services and features of the various layers in the protocol stack. • To understand design issues in Network Security and to understand security threats, security services and mechanisms to counter it. 	Regional



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S No	Title of the Paper	Course Code	Course Objectives	Course Outcomes	Relevance
1	ELECTIVE – I: C. BUSINESS INTELLIGENCE	MCS174C	<ul style="list-style-type: none"> To introduce the idea of decision making in complex industrial and service environments To understand the science behind better predictions and decisions To generate an ability to design, analyze and perform experiments on real life problems using various Decision making methodologies. To Critically evaluate use of BI for supporting decision making in an organization. To Understand and use the technologies and tools that make up BI 	<ul style="list-style-type: none"> On successful completion of this Course, students will be able to Recognize the foundations, definitions, and capabilities of DSS, data analytics and BI. Summarize the impact of business reporting, information visualization, and dashboards. Explore data mining, neural networks, support vector machines, text analytics, text mining, sentiment analysis, web mining, web analytics, social analytics, and social network analysis. Infer the major ethical and legal issues of analytics. Review how analytics are powering consumer applications and creating a new opportunity for entrepreneurship for analytics. 	Regional developmental needs

Name of the Programme: M Sc. Computer Science

				<ul style="list-style-type: none"> Plan the implementation of a BI system. 	
2	ELECTIVE – IV: B. SOCIAL NETWORK ANALYSIS	MCS473B	<ul style="list-style-type: none"> To gain knowledge about the current web development and emergence of social web. To study about the modeling, aggregating and knowledge representation of semantic web. To appreciate the use of machine learning approaches for web content mining. To learn about the extraction and mining tools for social networks. To gain knowledge on web personalization and web visualization of social networks. 	<ul style="list-style-type: none"> On successful completion of this Course, students will be able to. Identify the current web development in the era of social web. Understand Model, aggregate and represent knowledge for semantic web. Apply machine learning approaches for web content mining. Classify design extraction and mining tools for social networks. Evaluate personalized web sites and visualization for social networks. Generalize the knowledge of current web development in the era of social web. 	Regional developmental needs



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Name of the Programme: MSW

S No	Title of the Paper	Course Code	Course Objectives	Course Outcomes	Relevance
1	EMPLOYABILITY SKILLS (Skill Paper-SK 4)	MSW416S	<ul style="list-style-type: none">- To gain the knowledge Dimension of Employability Skills and Career Planning Skill- Resume Writing & Interview Skills- Planning, Organizing Skill and Team Work Skill	<ul style="list-style-type: none">- Knowledge Dimension of Employability Skills and Career Planning Skill- Resume Writing & Interview Skills- Planning, Organizing Skill and Team Work Skill	Regional Developmental Needs



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Name of the Programme: BBA

S No	Title of the Paper	Course Code	Course Objectives	Course Outcomes	Relevance
1	PRODUCTION MANAGEMENT	B423	<ul style="list-style-type: none"> To make the students understand the decision-making process in planning, scheduling and control of production and operation functions To know the concepts of production Management <p>To familiarizes the students in the concepts of production and Material analysis</p>	<ul style="list-style-type: none"> To examine the concepts of production management Assess the locate facilities, to design layout and to plan production with efficient methods Choose and Compose Production Planning and control Categorize and demonstrate the importance of material management Outline and understand the role of storekeeper <p>To develop the students in the concepts of production and material analysis</p>	Regional needs
2	SOCIAL RESPONSIBILITY	B524J	The project is to provide exposure to various dimensions of corporate /	The student after completing this project would have understood various social issues	Regional needs

	PROJECT		individual social responsibility and its influence on the long term sustainability of the modern organizations. It emphasizes on the social responsibility of every individual in the society and its role in inclusive growth in the economy. It also focuses on sensitizing students with the life and needs of the downtrodden through village campus.	in the society and understood his/her role and responsibility in overcoming such social issues and helping in bringing about equality and development in the society.	
3	SUBJECT SKILL - I: PAPER - III: PROJECT MANAGEMENT	B523C	<ul style="list-style-type: none"> The purpose of this paper is to acquaint the student with the concepts which are helpful in developing a projects To understand the project management concepts To impart knowledge on Project identification & Appraisal <p>To help the students to identify feasible projects</p>	<ul style="list-style-type: none"> To Tell about the project management procedures To Rephrase the methods of financing such projects and controlling its cost To learn and determine the understanding about project evaluation To know about how to prepare project in Business and also develop it Examine the Administrative agencies for project management <p>Originate the Implementation of Project Management</p>	Regional needs
4	NON MAJOR ELECTIVE – PAPER I - MANAGEMENT CONCEPTS	NBB504	To expose the students to the concepts of Business Management	<ul style="list-style-type: none"> The students should be able to apply the concepts of management to various kinds of organizations Learn the concepts and formulate the planning 	Regional needs

				<ul style="list-style-type: none"> • Relate and assess the knowledge of Organization and & Staffing • Outline the importance of effectiveness of directing & coordination • Analyze the importance, process & types of controlling <p>Demonstrate and apply the elements of management</p>	
5	STRATEGIC MANAGEMENT	B623	<ul style="list-style-type: none"> • This course is to help students to integrate their knowledge of the functional areas of business into a holistic view of the firm and thereby determine and execute proper business level and corporate strategies • The students will come to know the various strategies used by the firms at different instances. <p>The students will inherit the strategic decision making skills</p>	<ul style="list-style-type: none"> • Specific and show the emphasis will be placed on identifying key drivers and issues that serve as the inputs to developing a strategy; moreover, students will learn to assess the impact on various strategic decisions on the organizations wide array of stakeholders. • Inference the knowledge of various business models • The students will analyze and rephrase how strategic implementation takes place in organizations • The students will evaluate and develop the strategies operated in different firms • Recall the different Strategic Indent <p>Discover the Corporate Level Strategies</p>	Regional needs
6	ELECTIVE PAPER - II: PAPER - VI: TOTAL QUALITY	B626C	The objective of this course is to cover not only Quality Management concepts	<ul style="list-style-type: none"> • To find out the basic concepts of TQM • Demonstrate the SQC and Inspection 	Regional needs

	MANAGEMENT			<ul style="list-style-type: none"> • Construct and Evaluate the Theories of TQM • Examine JIT with analysis • Defend and Develop the concept TPM <p>Formulate the quality management concepts</p>	
7	SUBJECT SKILL - II: PAPER - VI: CUSTOMER RELATIONSHIP MANAGEMENT	B627B	The objective of this course is to enable the students to understand the importance of satisfying the customer in today's competitive world	<ul style="list-style-type: none"> • Identify the basic concepts of CRM • Demonstrate the Customer Learning Relationships • Extend and Evaluate the CRM Program • Recall the CRM Process • Construct the Technology in CRM • Discover the functions of CRM 	Regional needs
8	NON MAJOR ELECTIVE: PAPER - II: ORGANIZATIONAL BEHAVIOUR	NBB604	To establish knowledge in the areas of Personality, Perception and attitudes.	<ul style="list-style-type: none"> • To identify and choose the fundamental concepts of Organization Behaviour • Construct and decide the Perception and Attitude of Human Behaviour • To relate and compare groups and construct their development by motivation and power • Discover and create effective leaders to manage the stress • Recall and learn the fundamentals of organization and climate • After the completion of this course the student shall be able to determine the nature, scope, importance of Organizational Behaviour 	local, regional ,national and global developmental needs



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Name of the Programme: MBA

1.	ECONOMICS FOR MANAGEMENT	MBA131T	<ul style="list-style-type: none"> To help students to develop a basic understanding on economic principles and concepts. To identify economic trends and current business scenario that affects individual firms and industry. 	<ul style="list-style-type: none"> Students are expected to become familiar with both principles of micro and macroeconomics. They would also become familiar with application of these principles to appreciate the functioning of both product and input markets as well as the economy. 	Regional
2.	MANAGEMENT INFORMATION SYSTEM	MBA135T	<ul style="list-style-type: none"> To provide an awareness among the upcoming managers, to understand the Concepts and Applications for Decision Making. It identifies the various information systems solution for vertical and horizontal workflow of business operations. 	<ul style="list-style-type: none"> Development of the computing skills among the budding managers of the tomorrow's world. Gains knowledge on effective applications of information systems in business. 	Regional

3.	BUSINESS RESEARCH METHODS	MBA230T	<ul style="list-style-type: none"> To introduce to the students the basic concepts of Research in Business. To highlight the need for Research in the functional areas of management. 	<ul style="list-style-type: none"> The course aims at equipping students with an understanding of the research process tools and techniques in order to facilitate managerial decision making. Students will learn to apply the principles of research methodology for the research design for the various mini and major projects of the MBA programme. 	Regional
4.	HUMAN RESOURCE MANAGEMENT	MBA232T	<ul style="list-style-type: none"> To provide basic knowledge of functional area of Human Resource Management. To provide functional areas of Human Resource Management for all future managers whether or not their career orientation lies in human resources. 	<ul style="list-style-type: none"> Students should be able to understand the basic HR concepts. Students will be able to understand the process of recruitment, selection, performance appraisal, training & development, compensation and employee retention approaches and strategies. 	Regional
5.	APPLIED OPERATIONS RESEARCH FOR MANAGEMENT	MBA235T	<ul style="list-style-type: none"> To impart the knowledge of quantitative methods used in linear programming problems, transportation problems, assignment problems, project management, game theory problems, replacement and maintenance. 	<ul style="list-style-type: none"> Students will be tested on the application of Operations Research to business related problems. To facilitate quantitative solutions in business decision making under conditions of certainty, risk and uncertainty. 	Regional
6.	PRODUCTION AND OPERATIONS MANAGEMENT	MBA236T	<ul style="list-style-type: none"> To make the students understand the decision making process in planning, scheduling, and control of production and operation functions. To develop the skills of Operations Research Models in planning, Scheduling, Project and inventory management. 	<ul style="list-style-type: none"> Students will be able to know decision making process in various levels production and operation management and be able to apply those techniques to improve productivity. To enable the students to apply the techniques of quality management to improve the productivity. 	Regional

7.	PROJECT MANAGEMENT	MBA332C	<ul style="list-style-type: none"> To understand the concept of project and steps in project management and to enable the students to prepare business proposals. To enable the students to evaluate the technical feasibility, financial viability, market acceptability and social desirability of projects and to be effective as project managers and as part of project teams. 	<ul style="list-style-type: none"> Understanding the key Project Management concepts and developing working competence in the use of a Project Management Software. Students learn to be effective as project managers and as part of project teams. 	Regional
8.	MARKETING OF HOSPITAL SERVICES	MBA332E	<ul style="list-style-type: none"> To inculcate application of Marketing for service businesses from a managerial perspective. To understand and appreciate the concept of marketing the services in theory and apply in market. 	<ul style="list-style-type: none"> Enhance students in learning the concept of healthcare marketing towards promoting hospital services. Provides a managerial frame work of service marketing. 	Regional
9.	MICRO FINANCE	MBA333B	<ul style="list-style-type: none"> To enable students to comprehend the importance of micro finance. To understand the techniques involved in their evaluation. 	<ul style="list-style-type: none"> Students will possess good knowledge in micro finance management. Induce the minds of students to apply in the field of micro finance. 	Regional
10.	QUALITY MANAGEMENT	MBA333C	<ul style="list-style-type: none"> To expose the multi-disciplinary students joining MBA to the Principles of Quality Management, to equip the students with an understanding for statistical Quality Control To develop in the students an understanding of Benchmarking, Total Quality Management and ISO – 9000 and other modern quality management methods and systems 	<ul style="list-style-type: none"> Students will understand the tools necessary to solve Quality management problems. Helps in learning the Quality perspectives in organization. 	Regional

11.	RETAIL MANAGEMENT	MBA335A	<ul style="list-style-type: none"> To equip the students with the fundamental framework of retail marketing. To understand the various elements involved in the making of retail strategy including retail location strategy and store design strategies. 	<ul style="list-style-type: none"> To manage the retail chains in India. To understand the retail customer's behaviour in India. 	Regional
12.	KNOWLEDGE MANAGEMENT AND OCCUPATIONAL TESTING	MBA335D	<ul style="list-style-type: none"> The objective of the course is to prepare HR managers to participate in the organizational knowledge management efforts and facilitate management of knowledge. To develop a perspective about the intricacies and ethics of use of psychological tests. 	<ul style="list-style-type: none"> Provides a theoretical background for supplementing the understanding knowledge management and psychological assessment. Helps to learn to interpret test profiles and explore patterns in interpretation from several tests. 	Regional
13.	RURAL MARKETING	MBA432A	<ul style="list-style-type: none"> To provide conceptual understanding on the Rural Marketing. To create awareness about the applicability of the concepts, techniques and processes of marketing in rural context. 	<ul style="list-style-type: none"> Perspectives of rural marketing and the knowledge of the emerging managerial initiatives. To know the relevant frameworks in rural marketing, institutions engaged in rural marketing 	Regional
14.	INVENTORY MANAGEMENT	MBA432C	<ul style="list-style-type: none"> To provide students with an appreciation of the crucial role of Inventory and Materials Management in the efficiency, competitiveness, and profitability of a business organization. To introduce the student to the formulation and application of methods and models for Inventory Management. 	<ul style="list-style-type: none"> Enables to monitor inventory levels and projected item availability and to perform basic warehousing operations including receiving, putting away, picking and shipping. Students learn to analyze and develop inventory management policies under deterministic and stochastic environments. 	Regional

15.	INVENTORY MANAGEMENT	MBA432C	<ul style="list-style-type: none"> To provide students with an appreciation of the crucial role of Inventory and Materials Management in the efficiency, competitiveness, and profitability of a business organization. To introduce the student to the formulation and application of methods and models for Inventory Management. 	<ul style="list-style-type: none"> Enables to monitor inventory levels and projected item availability and to perform basic warehousing operations including receiving, putting away, picking and shipping. Students learn to analyze and develop inventory management policies under deterministic and stochastic environments. 	Regional
16.	MATERIALS AND STORES MANAGEMENT	MBA434C	<ul style="list-style-type: none"> To understand how material management should be considered for profitability and how to establish the best methods of inventory analysis and create performance measures. To appreciate the role of store management and forecasting and to analyze the management aspects of health and safety in work 	<ul style="list-style-type: none"> Student gains knowledge on effective utilization of materials in manufacturing and service organization Understanding the concepts and principles materials and store management. 	Regional
17.	TOTAL PRODUCTIVITY MANAGEMENT	MBA435C	<ul style="list-style-type: none"> To make the students conversant with the tools of TPM which would be useful in coordinating the activities of productivity system by proper models and improvement techniques. 	<ul style="list-style-type: none"> To know the concept of productivity and its models To analyze organizational performance 	Regional



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Name of the Program : BA Tamil

S No	Title of the Paper	Course Code	Course Objectives	Course Outcomes	Relevance
1	NME : தமிழ் இலக்கியம் ஓர் அறிமுகம்	TA506	தமிழ் இலக்கியங்களை அறிமுகப்படுத்திக் கொள்வதன் வாயிலாகப் போட்டித் தேர்வுக்குத் தயாராதல்.	போட்டித் தேர்வுகளை எதிர்கொள்ளும் திறன் பெறுதல்.	Regional



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NAME OF THE PROGRAMME: M.A TAMIL

S No	Title of the Paper	Course Code	Course Objectives	Course Outcomes	Relevance
1	தொல்காப்பியம் - எழுத்ததிகாரம்	TA718	<p>தமிழ்த்துறை மாணவர்களுக்கு இலக்கண அறிவு தேவை என்பதை அறிந்து கொள்வர். எழுத்துகளின் வகைகள், பிறக்கும் முறை எப்படி என்பதை அறிந்து கொள்வர். புணர்ச்சி முறையின் அடிப்படைக் கட்டமைப்பினை அறிந்து கொள்வர். பிழையில்லாமல் எழுத முடியும் என்ற தன்னம்பிக்கையினைப் பெறுதல்.</p>	<p>தமிழ்த்துறை மாணவர்களுக்கு இலக்கண அறிவு தேவை என்பதை அறிந்து கொள்வர். எழுத்துகளின் வகைகள், பிறக்கும் முறை எப்படி என்பதை அறிந்து கொள்வர். புணர்ச்சி முறையின் அடிப்படைக் கட்டமைப்பினை அறிந்து கொள்வர். பிழையில்லாமல் எழுத முடியும் என்ற தன்னம்பிக்கையினைப் பெறுவர். ஆங்கிலத்திலிருந்து தமிழுக்கும் தமிழிலிருந்து ஆங்கிலத்திற்கும் உள்ள இலக்கண அமைப்பினைப் பொறுத்திப் பார்க்கும் திறனைப் பெறுவர். இலக்கணக் கோட்பாடுகளை விளங்கிக் கொள்வர். எழுத்துகளின் கட்டமைப்பினைத் தெரிந்துகொண்டு சிறப்பான பிழையில்லாத தொடர்களை அமைக்கும் திறன்களைப் பெற்றிருப்பர்.</p>	Regional/national

2	தொல்காப்பியம் - சொல்லதிகாரம்	TA819	<p>தொல்காப்பியம் மாணவர்களுக்கு சொற்பிழை இல்லாமல் எழுதுவதற்கும் வாசிப்பதற்கும் தேவை என்பதை அறிந்து கொள்வர். உலகமயமாக்கச் சூழலில் தமிழ்மொழியின் வளா;ச்சிக்காக மொழியறிவுடன் இலக்கணம் அடிப்படைத்தேவை என்பதை அறிந்து கொள்வர்;. தமிழ்மொழியின் அடிப்படைக்கட்டமைப்பினை அறிந்து கொள்வர்;.</p>	<p>தமிழ்மொழியினைப் பிழையின்றி எழுதவும் பேசவும் முடியும் என்ற தன்னம்பிக்கையினைப் பெறுவர். தன்திறமைகளை வளா;ப்பதோடு மட்டுமல்லாமல் பேச்சுத் திறனைப் பெறுவர்;. இலக்கணக்கொள்கைகளை விளங்கிக் கொள்வர்;. இலக்கணநுட்பங்களை உணா;ந்துகொண்டு சிறந்த எழுத்தாளா; பேச்சாளா; என்ற திறன்களைப் பெற்றிருப்பர்.</p>	Regional/ national
3	தொல்காப்பியப் பொருளதிகாரம்	TA918	<p>தமிழ் மொழியில் உள்ள தொல்காப்பியப்பொருளதிகாரம் குறித்தும் அவற்றின் தமிழ்மொழியின் இலக்கணநூலான தொல்காப்பியத்தில் பொருளதிகாரத்தின் அக்கால மக்களின் அகப்புற வாழ்வியலை அறிந்துக் கொள்வது</p>	<p>பழந்தமிழரின் அகவாழ்வியலுக்கான இலக்கணத்தை அறிந்துகொள்வர். பழந்தமிழரின் புற வாழ்வியலுக்கான இலக்கணத்தை அறிந்துகொள்வர். களவு - களவுக்கான கூற்று நிகழ்த்துபவர்களின் இலக்கணத்தை அறிந்துகொள்வர். கற்பு - கற்குக்கான கூற்று நிகழ்த்துபவர்களின்</p>	Regional/ national

				<p>இலக்கணத்தை அறிந்துகொள்வர். களவு, கற்பியலில் சொல்லப்படாத எஞ்சியுள்ள இலக்கணச் செய்திகளை பொருளியலில் அறிந்துகொள்வர்.</p>	
4	<p>போட்டித்தேர்வு களுக்கான தமிழ்</p>	TA1023	<p>உலகமயமாக்கச் சூழலில் தமிழ் மொழியறிவும் அடிப்படைத் தேவை என்பதை அறிந்து கொள்வர். தமிழ் இலக்கண மொழியின் கட்டமைப்பினை அறிந்து கொள்வர். தமிழ் மொழியில் உள்ள இலக்கியத்தின் முக்கியத்துவத்தினை அறிந்து கொள்வர்..</p>	<p>போட்டித்தேர்வு நோக்கில் இலக்கியம் பெற்றிருப்பர். உலகமயமாக்கச் சூழலில் தமிழ் மொழியறிவும் அடிப்படைத் தேவை என்பதை அறிந்து கொள்வர். தமிழ் இலக்கண மொழியின் கட்டமைப்பினை அறிந்து கொள்வர். தமிழ் மொழியில் உள்ள இலக்கியத்தின் முக்கியத்துவத்தினை அறிந்து கொள்வர்..</p> <p>வினாவிற்கு ஏற்ற விடையையும் விடைக்கு ஏற்ற வினாவினையும் அமைக்க கற்றிருப்பர். போட்டித்தேர்வு கொள்கைகளை விளங்கிக் கொள்வர். தேர்வு நுட்பங்களை உணர்ந்து கொண்டு தேர்வு எழுதும் திறன்களைப் பெற்றிருப்பர்.</p>	Regional/ national

5	தொல்காப்பியம் பொருளதிகாரம் -2	TA1019	தமிழ் மொழியில் உள்ள பொருளிலக்கணம் குறித்தும் அவற்றின் வளர்ச்சி நிலை குறித்தும் அறிந்துகொள்வது. அவற்றின் வழியாக மக்களின் வாழ்வியல் முறைகளையும் செய்யுள் புணையும் ஆற்றல் குறித்தும் அறிந்துகொள்வது	தமிழரின் அக வாழ்வியல் குறித்தும் அவ்வாழ்வியல் குறித்த படைப்புகளுக்கான மெய்ப்பாட்டு இலக்கணம் குறித்து அறிந்துகொள்ளுதல். செய்யுளுக்கு அழகு சேர்க்கும் அணி இலக்கணத்தைக் குறிப்பாக உவமையியல் குறித்து அறிந்துகொள்ளுதல். கவிதை இயற்றுவதற்கான இலக்கணம் குறித்தும், அக்கவிதை கட்டமைப்புக்கான இலக்கணத்தையும் அறிந்துகொள்ளுதல். செய்யுள் இயற்றுதலுக்கு வரையரைசெய்யப்பட்ட செய்யுள் உத்திகளை அறிந்துகொள்ளுதல். தொல்காப்பியர் உணர்த்திய மரபியல் சிந்தனைகளை அறிந்துகொள்வர்.	Regional/ national
6	தமிழக வரலாறும் மக்களும் பண்பாடும்	TA1021	<ul style="list-style-type: none"> • தமிழ்ச் சமூக வரலாற்றையும் பண்பாட்டு வரலாற்றையும் அறிமுகப்படுத்துதல் - • பண்பாட்டுச் சிறப்பின் தனித்துவத்தை அறிமுகம் செய்தல் - வரலாற்றின் 	தமிழக பண்பாடு தேவை என்பதை அறிந்து கொள்வர். தமிழர் வரலாறு அடிப்படைத் தேவை என்பதை அறிந்து கொள்வர். தமிழக பண்பாடு அடிப்படைக் கட்டமைப்பினை அறிந்து கொள்வர். பண்பாட்டு என்ற தன்னம்பிக்கையினைப்	Regional/ national

			போக்கினையும் இடையீடுகளையும் இடையூறுகளையும் தெளிவுபடுத்துதல்.	பெறுவர். தமிழ் பண்பாடு திறனைப் பெறுவர். தமிழ் பண்பாட்டு கொள்கைகளை விளங்கிக் கொள்வர். பண்பாட்டு நுட்பங்களை உணர்ந்து கொண்டு சிறந்த வரலாறு திறன்களைப் பெற்றிருப்பர்.	
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Name of the Programme: B.Sc Biochemistry

S No	Title of the Paper	Course Code	Course Objectives	Course Outcomes	Relevance
1	MEDICAL LABORATORY TECHNOLOGY	BC520B	<ul style="list-style-type: none">To give knowledge about laboratory practices, drugs and cancer chemotherapy.	<ul style="list-style-type: none">The student will be able to Perform routine clinical laboratory procedures within acceptable quality control parameters in Hematology, Chemistry, Immunohematology, and Microbiology under the general supervision of a Clinical Laboratory Scientist or Pathologist. Demonstrate technical skills, social behavior, and professional awareness incumbent upon a laboratory technician as defined by the American Society for Clinical Laboratory Science and the American Society of Clinical Pathologists.	Local developmental needs

2	SSP-I: HEALTH MANAGEMENT	BC522SP1	<ul style="list-style-type: none"> To gain knowledge about first aid, basic health issues and handling emergencies. 	<ul style="list-style-type: none"> This course will provide the basic information about safe guards to health, first aid for accidents, handling emergencies of general and specific disease. This course will also give awareness about symptoms and giving first aid during common health issues before meeting the physician. 	Local developmental needs
3	SS2: BIOETHICS	BC617	<ul style="list-style-type: none"> To understand the ethical aspects in Biology and Bio Containment. 	<ul style="list-style-type: none"> This self-study paper makes the student to acquire sound knowledge about different types of nutrients and its composition. Based on the symptoms of the disease in the early stage one can cure the disease through diet therapy. This student can chart out a recommended diet for particular disease. By strictly following the diet one can get rid of the discomfort. 	Local developmental needs
4	SSP-II: NUTRITIONAL BIOCHEMISTRY	BC619SP1	<ul style="list-style-type: none"> To know about importance of Nutrition and associated health risks. 	<ul style="list-style-type: none"> This self-study paper makes the student to acquire sound knowledge about different types of nutrients and its composition. Based on the symptoms of the disease in the early stage one can cure the disease through diet therapy. This student can chart out a recommended diet for particular disease. By strictly following the diet one can get rid of the discomfort. 	Local developmental needs

5	HEALTH CARE AND DISEASE MANAGEMENT	NBC603	<ul style="list-style-type: none"> To give awareness about first aid, basic health issues, handling emergencies. 	<ul style="list-style-type: none"> A student draws complete knowledge of health management at the end of this course. Based on an individual's requirement a complete diet schedule can be framed by the student. 	Local developmental needs
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Name of the Programme: MSc Bio chemistry

S No	Title of the Paper	Course Code	Course Objectives	Course Outcomes	Relevance
1	INDUSTRIAL MICROBIOLOGY	BC712B	<ul style="list-style-type: none">To learn about the basic concepts of industrial microbiology and industrially important microbes.To understand the microbial fermentation process, fermenters types and fermentation techniques.To gain the knowledge about inoculum development, raw materials used in fermentation process.To become familiar with the food preservation techniques and fermented	<ul style="list-style-type: none">Identify the different types of fermenters and explain the various fermentation strategies and the growth of industrial microorganisms.Explain the inoculum development methods, various types of raw materials used in fermentation process and scale up process of fermentationManipulate the fermentation media, microbial inoculum and strain for different types of microbial fermentation process.Categorize the primary and secondary metabolites production techniques and Describe about industrially important	Regional developmental needs

			<p>dairy, brewers products.</p> <ul style="list-style-type: none"> To understand the food preservation techniques and uses of microbes in waste management. 	<p>microbes.</p> <ul style="list-style-type: none"> Evaluate the various food preservation methods and identify the fermented dairy, baker's and brewing products. Propose a waste management system, design new composting technique and biogas unit. 	
2	INSTRUMENTATION BIOCHEMISTRY	BC809	<ul style="list-style-type: none"> To study the principle, procedure and applications of electrophoresis. To understand the principle, procedure and applications of microscopes. To study the principle, procedure and applications of chromatography. To learn the principle, procedure and applications of centrifugation techniques. To know the principle, procedure and applications of spectrophotometry 	<ul style="list-style-type: none"> Understand the core concepts of all analytical techniques Describe the basic principle, types, procedure and applications of electrophoresis Acquire knowledge about advanced microscopy techniques Correlate the various types of chromatographic techniques Justify the principle, instrumentation and applications of various spectroscopy techniques Schematize the Principle and applications of Atomic flame and flameless spectrophotometry 	Regional developmental needs

3	ELECTIVE – II – PHARMACEUTICAL BIOCHEMISTRY	BC812B	<ul style="list-style-type: none"> • To gain the knowledge on basic concepts of pharmacology to understand the mechanisms of drug action and toxicity. • To understand the chemistry of drugs with respect to their pharmacological activity. • To learn the drug metabolic pathways, adverse effect and therapeutic value of drugs. • To know the mechanism of action of drug therapy. • To study about the natural drug development. 	<ul style="list-style-type: none"> • Enumerate the relevance, basic concepts of pharmacology, ADME properties and drug metabolism • Interpret the pharmacological actions of different categories of drugs and factor that modifies the effect of drug and drug potency • Apply the basic principle of genetic engineering and enzyme technology • Outline the mechanism of action of drugs used in therapy of Respiratory system. • Perceive the information of drugs used for cancer, inflammation, respiratory system, GIT, immune system and hormones. • Formulate natural products for chemotherapy, anti-hypertensive, anti-platelet, anti-inflammatory and anti-cholinergic drugs. 	Regional developmental needs
4	ELECTIVE IV HERBAL TECHNOLOGY	BC1011B	<ul style="list-style-type: none"> • To learn about the preparation of drugs. • To know about Herbal remedies for human ailments. • To evaluate the propagation of medicinal plants. 	<ul style="list-style-type: none"> • Discuss the importance of Nutritive and medicinal value of fruits • Acquire knowledge of Collection of wild herbs and its formulations • Perceive the knowledge of Systems of Indian Medicines–Siddha, Unani, 	Regional developmental needs

			<ul style="list-style-type: none"> To study the Nutritive and medicinal value of fruits. To know the applications of Herbal foods. 	<p>Ayurveda and Homeopathy.</p> <ul style="list-style-type: none"> Evaluate the Drugs for common disorders and its mechanism of action. Analyse the applications of Herbal foods– Food processing and packaging. Integrate the biotechnological principles in propagation of medicinal plants. 	
5	ELECTIVE IV MEDICAL DIAGNOSTIC TECHNOLOGY	BC1011C	<ul style="list-style-type: none"> To gain knowledge about good laboratory practices. To study the collection and preservation of biological specimens. To evaluate the knowledge of Hematological parameters. To study about the Microscopic and Macroscopic Examination of Urine and Feces. To learn culturing of organisms using microbiological techniques 	<ul style="list-style-type: none"> Understand the knowledge about good laboratory practices. Acquire a broad knowledge of collection and preservation of biological specimens. Perceive a broad knowledge of haematological parameters. Observe the microscopic and macroscopic examination of urine. Analyse the microscopic and macroscopic examination of faeces. Integrating the safety procedures in microbial culture techniques. 	Regional developmental needs



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Tirupattur – 635 601, Tamil Nadu, S.India

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A Don Bosco Institution of Higher Education, Founded in 1951 * Affiliated to Thiruvalluvar University, Vellore * Autonomous since 1987

Accredited by NAAC (4th Cycle – under RAF) with CGPA of 3.31 / 4 at 'A+' Grade

Name of the Programme: BCA

1	DIGITAL COMPUTER FUNDAMENTAL S	CA107	<ul style="list-style-type: none"> To know and understand the fundamentals of a computer system To understand the basics of digital design and number systems To learn about combinational gates and k-maps to simplify the Boolean functions To know and understand the purpose of sequential circuits To learn the purpose of different registers and counters 	<ul style="list-style-type: none"> Explain the Characteristics, Generations of a Computer, Purpose and Types of Input & Output Unit, Processing Unit, Memory Unit and Storage devices Understand different Number Systems, Complements available to represent data and IC Logic gates, Boolean algebra for the simplification of expressions for Computer processing. Apply the Boolean Algebra rules and K-maps for simplification of expressions and explain the purpose and working of Combinational Circuits Understand and analyze the Sequential logic circuits - flip flops Draw the circuit diagram and 	Regional Developmental Needs
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				<p>Explain the purpose and types of registers, counters.</p> <ul style="list-style-type: none"> • Understand and analyze the different types of memory units 	
2	SOFTWARE ENGINEERING	CA518	<ul style="list-style-type: none"> • To Understand the Software Engineering Practice and Process Models. • To Understand Software Process Modeling Concepts. • To know the concept of Architectural Design method in Software Engineering. • To understand Component based software Engineering. • To know the various methods of Reengineering. 	<ul style="list-style-type: none"> • Identify the need for engineering approach to software development and various processes k1 • Understand about software myths, generic view of the process and process models k2 • Analyze various software engineering models and apply methods for design and development Process. K4 • Acquire knowledge on the wider perspective of software engineering architecture design • Assess the concept of Component Based software Engineering • Enhance in the techniques of risk management and re-engineering 	Regional Developmental Needs



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Name of the Programme: MCA

S No	Title of the Paper	Course Code	Course Objectives	Course Outcomes	Relevance
1	ENTERPRISE APPLICATIONS WITH .NET	MCA260T	<ul style="list-style-type: none"> To Learn the fundamental structured and object oriented features of the C# programming language. To develop a stand-alone windows applications in the .NET framework using C#. To learn and build an applications with WPF control, styles and resources using C#. To create web-based applications using ASP.NET using C#. To learn the usage and application of LINQ. 	<ul style="list-style-type: none"> Infer and Apply the basics of structured programming. Use the basics of object oriented programming and design object oriented programs. Device and Develop programs in structured programming model. Device and Design solutions in object oriented programming paradigm. Construct Develop stand-alone windows applications in the .NET framework. Construct, Device and Build applications with WPF control, styles and resources. Create web-based applications using ASP.NET. Build data aware standalone and web applications. Illustrate the usage and application of LINQ. Integrate solutions across console, windows and web frameworks. 	regional developmental needs

2	ELECTIVE I: INTERNET OF THINGS	MCA263B	<ul style="list-style-type: none"> • To understand the different architectures of IoT. • To learn various protocols at the different layers for IoT. • To develop prototypes systems using Arduino / Raspberry Pi. • To apply the use of data analytics in IoT. 	<ul style="list-style-type: none"> • Acquire and use the various objects or things handled in the connectivity • Learn and Practice to connect and activate the objects with procedure (domain specific). • Compare and correlate the network layer model with Internet of Things layers. • Observe and Apply analysis techniques on the constructed model (domain specific). • Analyze and Assess IoT communication (connecting and passing data) using different architectures. • Do Case study and build the Architecture and Use cases for the domain specific problems 	regional developmental needs
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Name of the Programme: B.A ENGLISH

s. no	Title of the Paper	Course Code	Course Objectives	Course Outcomes	Relevance
1.	English – I: Basic Communication	EN111T	<ul style="list-style-type: none">To introduce students to the basics of communication in EnglishTo learn a list of vocabularies like nouns that are commonly used in daily lifeTo introduce students to basic grammarTo be able to frame correct sentences both in spoken and written formsTo prepare the students to interact with others in English with apt body languageTo enable students to appreciate literary pieces	<ul style="list-style-type: none">CO1:Converse in simple English using appropriate vocabulary at home, in the playground, at college, and while cooking and eatingCO2:Greet others, introduce oneself and others, invite and request someone, offer help-accept it and decline it, seek permission, ask for advice, and express gratitudeCO3:Exhibit adequate writing skill in English using nouns and verbs prescribed for studyCO4: Demonstrate practical knowledge of various parts of speech; past tense, present tense, and future tense; articles and prepositions	regional developmental needs

				<ul style="list-style-type: none"> • CO5: Discuss and analyse, themes and characters of short stories written by Jean Ure, Stephen Leacock, A. G. Gardiner, and Somerset Maugham and poems by Robert Frost and G. M. Hopkins; express appreciation of aesthetic aspects of literary works 	
2.	English - III: Public Communication	EN113T	<ul style="list-style-type: none"> • To introduce students to the art of communication and public speaking in English • To train the minds to think in English • To narrate an incident or a story, share an experience, etc. • To enhance proficiency in Writing skills of the students focusing on vocabulary already learnt and acquiring new vocabulary • To express their opinion on various current issues related to social, political, etc. • To understand and appreciate English prose passages and Poems 	<ul style="list-style-type: none"> • At the end of the Course, the learners will be able to: • CO1: Introduce oneself, describe, narrate in informal situations; welcome, introduce a guest and thank in a formal gathering; face an interview in person or online; seek and give information over telephone in simple English • CO2: Prepare and present professional presentations; negotiate and involve in Group Discussions with a professional approach in English • CO3: Exhibit writing skill in English in writing short speeches, apply for jobs, prepare resumes, pen business letters and write professional reports • CO4: Demonstrate knowledge and use of phrasal verbs and idioms that 	regional developmental needs

				<p>are commonly used as well as job-related in real life situations</p> <ul style="list-style-type: none"> • CO5: Discuss and analyse, themes and characters of short stories written by Edward De Bono Kamala Das, O. Henry, T.S Eliot. Stockton, , John Milton, express appreciation of aesthetic aspects of literary works 	
3.	English - IV: Business Communication	EN114T	<ul style="list-style-type: none"> • To Enhance the proficiency of Business Communication skills of the students focusing on the words, and expressions commonly used in the business environment • To develop the ability to communicate clearly, correctly and effectively in written English on matters having relevance to day-to-day business operations • To use appropriate words, proper construction of sentences, and coherent presentation conforming to widely accepted corporate practices • To create quality work force for the industry 	<ul style="list-style-type: none"> • At the end of the Course, the learners will be able: • To prepare their resumes and write business-related letters • To face both face-to-face interview and tele-interviews • To write minutes of meeting and short reports • To follow telephone etiquette in asking for and giving information, and make, cancel and reschedule appointments • To write letters to express congratulations, sympathy, and condolences • To handle visitors and customers in a business environment with proper diction • To negotiate in business situations and participate in Group Discussions 	Regional developmental needs

4.	Romantic Age	EN306	<ul style="list-style-type: none"> • To make students read and understand the age of romanticism in the light of recent approaches • To review the traditional concepts of genres and also to focus on new interpretation in the contemporary context • To provide an overview of the literary climate where the romantic sensibility finds an authentic voice touch and intensity • To enable students to demonstrate knowledge and understanding of a range of fictional, Poetic and other texts often described as 'Romantic' • To find the interrelationship between the literary production and its wider historical context 	<ul style="list-style-type: none"> • CO1: Know and remember the various developmental stages of Romantic age in English literary field • CO2: Demonstrate an understanding of Poetical production during Romantic Era in English literary world • CO3: Able to apply and test knowledge on variety of Poetical and literary productions • CO4: Able to describe, analyze, interpret and evaluate the concepts of Romantic age • CO5: Able to evaluate poems, Novels, and the dramas of Romantic era and use critical analysis in writing analytical articles 	regional
5.	History of English Language	EN309	<ul style="list-style-type: none"> • To comprehend the mechanisms of Language change and an acceptance of the inevitable nature of Language change • To acquire knowledge of the Origins of English and its place in respect to other languages of the world • To recognize the major stages in the Language and important changes in the 	<ul style="list-style-type: none"> • An understanding of the history of English language from the old • English Period to Modern day Influence • Distinguish between language varieties. • Students will understand origin and development of the language • Apprehend the growth of vocabulary for ages. 	regional developmental needs

			<p>development of English from a Synthetic to an Analytic language</p> <ul style="list-style-type: none"> • To understand, how the current state of the language has resulted from historical change • To develop a knowledge of the English Language from its Indo-European past to the present day 		
6.	Major English Tragedies	EN407	<ul style="list-style-type: none"> • To enable the students to appreciate tragedy as an enduring literary term and relate with the tragic themes • To enable the students to understand the works of various writers that embody truths and transcend time and all cultures • To make the students gain knowledge of the style of the tragedies, the heroic deeds, understand the tragic flaws and the tragic end of the • To help the students to study Major English Tragedies which are abound with ideas that are still relevant today protagonist. 	<ul style="list-style-type: none"> • The students will be able to appreciate tragedy as an enduring literary term and can relate with the tragic themes • The students will be able to understand the works of various writers that embody truths and transcend time and all cultures • The students can gain knowledge of the style of the tragedies, the heroic deeds, understand the tragic flaws and the tragic end of the plays • The students will be able to understand the Major English Tragedies which are abound with ideas that are still relevant to today's protagonist. 	regional developmental needs

7.	Indian Writing in English – I (Pre-Independence Era)	EN416	<ul style="list-style-type: none"> • To inspire the learners to approach and appreciate Indian literature in English • To provide an overview of the various phases of the evolution of Indian writing in English • To explore its uniqueness and its place among the literature in English • To motivate the learners for a critical and comparative study of Indian literature 	<ul style="list-style-type: none"> • Identify the major writers of Indian literature in the Pre-Independence era • Compare and contrast the different genres of writing • Read and interpret the various movements of the age • Demonstrate an understanding of the themes present in Indian literature • Develop the ability to critically read a text 	regional developmental needs
8.	Phonetics	EN410	<ul style="list-style-type: none"> • To help the students to understand all the sounds of English and the organs of Speech • To provide students an overview of vowels, Consonants, and word Accent, intonation. • To acquire an understanding of speech as the international phonetic transcription • To give a systematic, conscious consideration of how speech sounds are made, what they sound like, and how they compare with each other. 	<ul style="list-style-type: none"> • CO1: Decipher phonetics symbol with sounds • CO2: Use right accent, intonation and rhythm in speaking • CO3: Analyse the syllable and accent • CO4: Classify the speech sound • CO5: Transcribe into phonetic language 	regional developmental needs

9.	Victorian Age	EN408	<ul style="list-style-type: none"> • To enable the learners to form an overview of the Victorian age • To help the learners to understand and appreciate the writers of Victorian age • To train the learners to read and appreciate the novel of Victorian age • To expose the learners to few poems, short stories of Victorian age • To develop a clearer understanding of the period its tensions, enthusiasm, hopes, fears, and sometimes contradictory moral and intellectual principles through reading, discussion, and writing. 	<ul style="list-style-type: none"> • CO1: acquire knowledge about the writers and their works in the Victorian age • CO2: Assimilate the subjects in their critical way will be high regarding the works of writers of Victorian age • CO3: Analyse the work of a range of Victorian writers, both canonical and less well-known, and with a range of genres including the novel, short story and poetry. • CO4: Identify and discuss theoretical discourse concerning class, sexuality, gender and colonialism as these illuminate a range of Victorian texts • CO5: understand and deploy a range of terms and concepts integral to Victorian Literature 	regional developmental needs
10.	20th Century English Literature	EN409	<ul style="list-style-type: none"> • To introduce the essential characteristics, major trends and techniques of 20th Century English Literature • To familiarize them to the works of modern writers 	<ul style="list-style-type: none"> • CO1: student might have learnt the essential characteristics, major and techniques of 20th century English literature. • CO2: they can identify and describe distinct literary characteristics of modern writers • CO3: students can analyse poetic works for their structure and meaning, using the correct terminology 	regional developmental needs

				<ul style="list-style-type: none"> • CO4: students will be able to enact the dramas through that they can categories the various dramas • CO5: know and remember the various developmental stages of 20th century English literature. 	
11.	Indian Writings in English (Post-Independence era)	EN520	<ul style="list-style-type: none"> • To introduce the students to major writers of Indian Literature in English of the Post-Independence period. • To familiarize them with the different genres off writing • To introduce them to the different movements of the age • To examine the themes presented in Indian Literature • To develop the ability to critically analyse a text 	<ul style="list-style-type: none"> • Identify the major writers of Indian literature in the Post-Independence era • Compare and contrast the different genres of writing • Read and interpret the various movements of the age • Demonstrate an understanding of the themes present in Indian literature • Develop the ability to critically read a text 	regional developmental needs
12.	Literary Criticism-I	EN519	<ul style="list-style-type: none"> • To introduce to the students the world of Literary Criticism. • To make the students to learn and understand critical analysis and interpretation. • To make the students to learn and understand to evaluate literature. • To make the students to learn and understand the examination of literary 	<ul style="list-style-type: none"> • understand Literary Criticism • understand critical analysis and interpretation • evaluate literature • examine the literary contexts, types, theme, trends, history, or principles • appreciate and enhance and be proficient in all kinds of literary work 	regional developmental needs

			<p>contexts, types, theme, trends, history, or principles</p> <ul style="list-style-type: none"> To enable the students to understand and appreciate and to enhance proficiency in all kinds of literary work. 		
13.	Elective-I: Women's Writings	EN521C	<ul style="list-style-type: none"> To initiate an interest in the learners for the women writers in English To enable students to approach the thought and expression of women writers who displayed their perception on the world, culture and gender – bias with novelty in attitude and innovation in techniques To know the underlying themes expressed by women writers To understand and appreciate the inner and deeper aspirations of the women writers 	<ul style="list-style-type: none"> CO1: Critically respond to literature from a feminist perspective CO2: Differentiate how patriarchal notions pervade in the social and cultural scenario and how feminism exposes these notions CO3: Identify how stereotypical representations of women were constructed and how these are subverted by women's writing CO4: Analyse and engage in theoretical and scholarly debates about feminist fiction. CO5: Know the developments, themes and narrative techniques of women's writings. 	regional developmental needs
14.	NME-English for Career Examinations	NEN504	<ul style="list-style-type: none"> To instill in students the confidence and skills necessary to face the challenges of a competitive exam To equip them with English language skills to 	<ul style="list-style-type: none"> students will be confident and possess the skills necessary to face the challenges of a competitive exam They will acquire English language skills to achieve 	regional developmental needs

			<p>achieve success in the competitive examinations</p> <ul style="list-style-type: none"> To give exposure and train them to succeed in group discussions and interviews 	<p>success in the competitive examinations</p> <ul style="list-style-type: none"> They will be exposed to write competitive examinations They will be able to participate in Group discussions and interviews 	
15.	Literary Criticism - II	EN617	<ul style="list-style-type: none"> To introduce to the students the world of Literary Criticism. To make the students to learn and understand critical analysis and interpretation. To make the students to learn and understand to evaluate literature. To make the students to learn and understand the examination of literary contexts, types, theme, trends, history, or principles To enable the students to understand and appreciate and to enhance proficiency in all kinds of literary work. 	<ul style="list-style-type: none"> understand Literary Criticism understand critical analysis and interpretation evaluate literature examine the literary contexts, types, theme, trends, history, or principles. appreciate and enhance and be proficient in all kinds of literary work. 	regional developmental needs
16.	Epics in English	EN619	<ul style="list-style-type: none"> To acquaint the students with the great epics of English Literature To enrich learners with the types of Epic To familiarize the conventions of Epic 	<ul style="list-style-type: none"> CO1: Students can identify a variety of forms and genres of poetry from diverse cultures and historic periods. CO2: They can understand the nature and development of the genre of ancient epic. 	regional developmental needs

				<ul style="list-style-type: none"> • CO3: They can understand the internal structure and unity of the individual epics studied in the syllabus. • CO4: They can analyse the text with critical approaches and scholarly theories concerning these works. • CO5: They can understand the different historical contexts which produced the works. 	
17.	Translation: Theory and Practice	EN620	<ul style="list-style-type: none"> • To help the students understand how translation has shaped the knowledge of the world in the past and equip for the future. • To develop practical skills in translation • To develop an understanding of difference in the text type. 	<ul style="list-style-type: none"> • •Use language properly including language patterning, textual organisation and the semiotics of verbal and non-verbal communication to translate texts. • Effectively employ their knowledge of the nuances of translation to translate texts from any regional language into English. • •Translate literary texts 	regional developmental needs
18.	Project- Journalism	EN621J	<ul style="list-style-type: none"> • To enable students to understand that writing for media is an art • To offer hands-on experience to the learners by empowering them to do real time projects • To familiarize students with the nuances of Journalism 	<ul style="list-style-type: none"> • Students will be able to understand that writing for media is an art • They will be able to offer hands-on experience to the learners by empowering them to do real time projects • They will be able to familiarize students with the nuances of Journalism. • Facilitate the students on 	regional developmental needs

				<ul style="list-style-type: none">technical writingDraft their original work	
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Name of the Programme: M.A ENGLISH

1.	LITERARY CRITICISM	EN721	<ul style="list-style-type: none"> • The course aims at facilitating basic knowledge in English critical tradition from the beginning to the Modernists. • To help the learners to prepare himself/herself to lay the foundation for learning to address the discursive and ideational aspects of literary texts. • To acquaint the learners with the major concepts and theories from Classical criticism to modern criticism. • To enhance learners' critical, analytical skills which will help them to study and appreciate literary texts in a better way. • To teach the learners to evaluate 	<ul style="list-style-type: none"> • Know and remember the development of Criticism in literary field • Understand the concepts of various school of thoughts • Apply and test knowledge on literary productions • Describe, analyze, interpret and evaluate literature with the concepts of various schools of thought • Evaluate and apply critical thinking by the concepts of various school of thoughts 	Regional developmental needs
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			the texts rather critically applying Critical theories.		
2.	CONTEMPORARY CRITICAL THEORY AND TERMS	EN819	<ul style="list-style-type: none"> To introduce the learners to the current theoretical perspectives in contemporary literary studies To help the learners in close reading of the literary texts in the light of current critical perspectives To enhance learners' critical thinking scientifically To enable to describe analyse, interpret, evaluate and compare and contrast the concepts of various school of thoughts. To enable learners to appreciate a literary work scientifically. 	<ul style="list-style-type: none"> know and remember the various 'Isms' and its concepts demonstrate an understanding of all concepts of various theories in the literary field apply and test knowledge on variety of various theories describe, analyze, interpret, evaluate and compare and contrast their concepts of them describe, analyze, interpret, evaluate and compare and contrast their concepts of them 	Regional developmental needs
3.	NEW LITERATURES IN ENGLISH	EN820	<ul style="list-style-type: none"> To make the learners to become familiar with the current scenario of literature in different parts of the world. To encourage the learners to pursue their own interest in literature. To introduce the learners of English Literature to a new breed of writing which talks about their oppressed feelings, ventilates their emotions, airs their protests, etc. 	<ul style="list-style-type: none"> Appreciate all the literary works under New Literature in English as a part of English Literature. Understand the global relevance, significance and resonance of New Literature in English today. Analyse and evaluate the postcolonial aspects of the literary works Appreciate the contribution of translation studies to New Literature in English. Critically analyse the relevance of 	Regional

			<ul style="list-style-type: none"> To enable them understand the concepts related to imperialism, colonialism, and the process of decolonization of the mind; To familiarize them to the recent works of writers from different pockets of the world with an open mind, to understand and appreciate them. 	the works in the light of globalization.	
4.	RESEARCH METHODOLOGY	EN821	<ul style="list-style-type: none"> To provide learners with paradigms and vocabularies for engaging in knowledge production To help learners to be more self-aware and purposive researchers To make the learners to be familiar with standard research processes To enable them to conduct their research and present their findings in an effective manner in the field of literature. To make the learners to follow MLA & APA style in research writing 	<ul style="list-style-type: none"> Upon the completion of the course, the learners will be able: To know what research is and its various types To list out the sequence of processes involved in research To search and read materials available related to a domain and write a review of it To document the research materials following the mechanics of research writing To apply both MLA and APA style in documenting resources cited To present their research findings scientifically 	Regional developmental needs
5.	ELECTIVE II: CULTURAL STUDIES	EN822A	<ul style="list-style-type: none"> To know about cultural studies as a branch of literature To understand the impact of culture on literature 	<ul style="list-style-type: none"> Know cultural studies as a branch of literature Understand the impact of culture on literature 	Regional developmental needs

			<ul style="list-style-type: none"> To comprehend the underlying terminologies related to cultural studies To know about the recent trends in cultural studies 	<ul style="list-style-type: none"> Comprehend the underlying terminologies related to cultural studies Know about the recent trends in cultural studies Create the literary pieces related to cultural studies 	
6.	LANGUAGE AND LINGUISTICS	EN919	<ul style="list-style-type: none"> This course helps the learners to get introduced to scientific and systematic study of a language. It consists of the topics related to language and its history with the linguistic elements that makes a person to be systematic, specific and objective. To help the learners to internalize the system of rules and applications of the English Language. 	<ul style="list-style-type: none"> Know and remember the origin of Language Demonstrate the mechanism and the components of language Apply and test the components of language system with various linguistic theories Describe, analyze, the differences between the historical linguistics and the modern linguistics Evaluate various types of linguistics to develop critical thinking 	Regional
7.	ELECTIVE III: ENGLISH FOR COMPETITIVE EXAMINATIONS	EN921C	<ul style="list-style-type: none"> To expose the learners systematically to the world of Literature with a view to crack eligibility examinations like NET/SET/JRF To create a comprehensive picture in the minds of the learners about the movements, genres, trends, of the world literatures To develop a thirst for specific 	<ul style="list-style-type: none"> CO1: Identify prominent writers of various literary ages and movements CO2: Trace the history of English literature based on movements, genres and recent trends CO3: Infer any specific information in the world of literature 	Regional developmental needs

			information present in Literature	<ul style="list-style-type: none"> • CO4: Reflect upon the literary characters and approaches • CO5: Annotate major literary works and awards 	
8.	TWENTIETH CENTURY LITERATURE	EN1021	<ul style="list-style-type: none"> • To sensitize learners to the momentous changes in the 20th century, especially, literature • To enable them to understand experimental and innovative techniques used in literature • To make clear the idea that changes in human experience demand changes in mode of expression • The learners will be able to identify and understand the shift in the literary devices from the plot and structure of the text to the mode of narrative techniques. • It enables them to frame and apply the interdisciplinary perspectives to literature. 	<ul style="list-style-type: none"> • Upon the completion of the course, the learners will be able: • To understand the interdisciplinary nature of literary studies. • To understand the socio-cultural changes that influenced Literature during 20th Century. • To understand how the different modes of literary expression have influenced human life. • To gain knowledge about the changes in the use of literary devices and techniques. • Evaluate the reasons for the disintegration experienced by the writers in their works 	Regional developmental needs
9.	ECO-LITERATURE	EN1023	<ul style="list-style-type: none"> • To introduce the learners with an overall view of literature and ecological thinking with critical perspective. • To introduce the learners to some basic texts and concepts in this direction, recognizing the fundamental nature of the 	<ul style="list-style-type: none"> • know the relationship between Literature and Ecosystem • learn to critically appreciate literature and ecology • learning the role of literature in addressing contemporary issues regarding environmental concerns. 	Regional developmental needs

			<p>issues. It is intended to be multidisciplinary.</p> <ul style="list-style-type: none"> • To give awareness to the learners on the role of literature in addressing contemporary issues such as environmental concerns. • To expose care and concern for the environment. • To advocate a more thoughtful and ecologically sensitive relationship of man to nature. 	<ul style="list-style-type: none"> • exposed to care and concern for the environment • be more thoughtful and ecologically sensitive towards the relationship between man and nature. 	
10.	INDIAN LITERATURE IN ENGLISH	EN1024	<ul style="list-style-type: none"> • To acquaint students with knowledge of Indian writers and their works. • To help the students to have a broad look on Indian literature and to make them and estimate the diverse path and significance of Indian culture. • To make the students aware of social, political and cultural issues reflected in writing in English. □ • To elicit the various themes presented in Indian Literature. □ • □To familiarize the characteristics of Indian sensibility. □ 	<ul style="list-style-type: none"> • CO1: Identify the major works of Indian Literature • CO2: Analyse the representative literary texts of various periods and genres • CO3: Discuss the social, political and cultural issues reflected in Indian writing in English • CO4: Demonstrate an understanding of the various themes presented in Indian writing in English • CO5: Evaluate the characteristics of Indian sensibility with world literature 	Regional and national developmental needs

11.	ELECTIVE IV: CONTENT WRITING	EN1025A	<ul style="list-style-type: none"> • To be familiar with the process of Content writing • To be aware of the common errors committed by ESL learners • To be well-versed with the mechanics of writing in English • To boost one's vocabulary • To learn to use the modern writing tools (Apps) • To enhance one's non-fictional writing skills • To become familiar with standard business writing 	<ul style="list-style-type: none"> • CO1: Comprehend the process of Content writing • CO2: Identify and analyse the common errors committed by ESL learners • CO3: Construct an error free sentences in English • CO4: Demonstrate the knowledge in using the correct vocabulary • CO5: Exhibit the use of modern writing tools (Apps) • CO6: Compose non-fictional writing and standard business writing 	Regional developmental needs
12.	ELECTIVE – IV: ADVANCED ACADEMIC WRITING	EN1025B	<ul style="list-style-type: none"> • To gain knowledge about Academic writing and it's nuances • To develop the proficiency of the learners in writing English for academic purposes. • To integrate the various skills and sub skills into meaningful writing activities • To tap the critical thinking and synthesizing skills of the learners • To enable them to write a scientific paper as a hands on practice experience 	<ul style="list-style-type: none"> • CO1: Acquire knowledge about Academic writing and it's aspects in a theoretical way • CO2: Use English for various academic purposes • CO3: Gain knowledge to integrate the skills need to accomplish the writing activities • CO4: Adapt the critical way of producing the information • CO5: Write a scientific paper as an academic practice 	Regional developmental needs



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Name of the Programme: B.COM - CA

1	MODERN BANKING	CC107	<ul style="list-style-type: none"> To imparts knowledge on the basic functions and services of commercial banks To make them to understand the functions of RBI To enrich students to learn about the principles of sound lending To enhance the knowledge about negotiable instruments and the importance of crossing in the cheque. To help the students to familiarize the modern banking services like e-banking, m-banking and internet banking 	<ul style="list-style-type: none"> Acquire the knowledge on basic functions and services of Commercial banks Understand the functions of RBI Understand bankers and Customers relationship Functions and Applications of negotiable instruments in banking transactions Know and evaluate the impact of technology which are used in banks 	Regional Needs
2	FUNDAMENTALS OF COST ACCOUNTING	CC312	<ul style="list-style-type: none"> To familiarize the students with basic concepts of Cost Accounting To make the students to understand about the purchase department and stock levels To apply the various methods of stores 	<ul style="list-style-type: none"> Acquire knowledge of the basic concepts of cost and cost accounting Understand about the coding and classifications of materials and optimum level of material to be 	Regional Needs

			<p>ledger in cost accounting and identify the suitable method for issue of materials.</p> <ul style="list-style-type: none"> To analyse the various methods of determination of wages of employees and to identify the feasible method of computation of wage. To impart knowledge on the allocation and distribution of overhead 	<p>stored</p> <ul style="list-style-type: none"> Assess the various methods of issue of stock under stores ledger account and identify the best method of issue of materials. Anticipate the amount to be payable to employees as wages and create the suitable method of incentive to workers. Apply the concept of allocation to overhead and its rationale on the cost of companies 	
3	ENTREPRENEURSHIP DEVELOPMENT	CC410	<ul style="list-style-type: none"> To understand the fundamental knowledge of Entrepreneurship. To educate the students about MSME's To familiarize the students about Lean Startup's. To impart knowledge of government subsidies and incentives. To know about social entrepreneurship 	<ul style="list-style-type: none"> Acquire the functions and factors influencing Entrepreneurship. Explain the nuance of MSME's Entrepreneurship. Construct the concepts of Startup's and Incubation Centre. Identifying support institutions and Government schemes and policies towards entrepreneurship. Predict the require skill to successful social entrepreneurs. 	Regional Needs
4	COSTING METHODS AND TECHNIQUES	CC412	<ul style="list-style-type: none"> To enlighten the students on the job, batch and contract costing. To comprehend the methods of costing adopted in transport industries. To enable the students to compute the process cost of manufacturing industries. To acquire knowledge and practical skills for the application of Marginal Costing technique at various managerial decision-making condition. To impart knowledge on standard costing, material and labour variances. 	<ul style="list-style-type: none"> Understand the job, batch and contact costing and could estimate the cost of contract Analyse the operational cost involved in transport sector and minimize it. Apply the process costing technique and identify the cost of each process in manufacturing industries Evaluate the managerial decisions like make or buy and etc, based on the concept of marginal costing 	Regional Needs

				<ul style="list-style-type: none"> Understand about standard costing and compute material and labour variances 	
5	SELF STUDY PAPER: I 1.2 OFFICE ADMINISTRATIONS	CC518SP2	<ul style="list-style-type: none"> To introduce the students the functioning of modern office and latest information technologies in offices. To expose the students in office supervision and accommodation To understand on basics of office management and supervision To be familiar in the field of information technologies related on their administration To comprehend the basics of office management, indexing and office forms 	<ul style="list-style-type: none"> Understand the basics of office management and supervision Aware about the system of office and work simplification Create an office with proper layout, decoration and lighting Understand the concept of systematic record management Apply the modern communication techniques in Office. 	Regional Needs
6	NON-MAJOR ELECTIVE – 1: BASICS OF ACCOUNTING USING COMPUTERS (TALLY)	NCC503	<ul style="list-style-type: none"> To gain the knowledge about accounting software in the current industry. To impart knowledge to the students on the added features on the latest version. To expose the students on creation of groups and company in Tally To understand on basics of accountings and books of accounts To be familiar on the aspects of preparation of journal, ledger and etc. in Tally 	<ul style="list-style-type: none"> Aware on software to be used in the field of accounting Understand on computerized accounting packages with latest versions and its installation Create a company and groups with various details Understand the classification of accounts and various books of business Apply the accounting rules in Tally by creating ledger, profit and loss account and other accounts. 	Regional Needs
7	INVESTMENT MANAGEMENT	CC614B	<ul style="list-style-type: none"> To make the student to understand the concepts, objectives and various avenues of the investments. Comprehend the functionalities of the financial market and financial institutions Understand how securities are traded in 	<ul style="list-style-type: none"> Aware on the various avenues of the investments Understand the functioning of financial markets in India Gain knowledge about stock market and role of SEBI Demonstrate how risk is assessed 	Regional Needs

			<ul style="list-style-type: none"> the market Provide a guide to the measurement and analysis of risk of financial investments To help students develop a broad knowledge and understanding of portfolio management and investment analysis. 	<ul style="list-style-type: none"> Construct optimal portfolios and its management 	
8	SELF STUDY PAPER – II 2.1 CUSTOMER RELATIONSHIP MANAGEMENT	CC518SP6	<ul style="list-style-type: none"> To highlight the importance of customer expectations and customer satisfaction. To high light the methods to retain customers in business and to develop a long-term relationship with customer through appropriate strategies. To impart knowledge on customer life cycle To enable the students to understand about customer centric marketing To expose on customer retention Programmes and loyalty and reward point systems 	<ul style="list-style-type: none"> Acquire basic concepts of Customer Relationship Management and customer’s expectations Understand about customer profile and life cycle Evaluate the customer centric marketing and understand the importance of bonding of customer relationship. Understand the basics of customer detection and CRM strategies Aware about the customer loyalty and reward programmes 	Regional Needs
9	SELF STUDY PAPER – II 2.3 BUSINESS ENVIRONMENT	CC518SP8	<ul style="list-style-type: none"> To enable the students to have an overview of Political, Social and Global environment of business To provide knowledge of the environment in which businesses operate, the economic environment To give students an understanding of the various constituents and its functions. To study the procedural aspects of various forms of Business Organizations and Social Responsibility of Business towards different groups Gain knowledge about the operation of different institutions and opportunities of global business environments. 	<ul style="list-style-type: none"> Familiarize the nature and scope of business environment and its components Understand the effects of government policy on the economic environment Have knowledge on social responsibility of business towards stakeholders Analyze the relationships between Government and political environment Make aware on the role of globalization, WTO and GATT 	Regional Needs



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Name of the Programme: B.Sc Psychology

S No	Title of the Paper	Course Code	Course Objectives	Course Outcomes	Relevance
1	PRINCIPLES OF MANAGEMENT – (ALLIED - I)	ABA101	<ul style="list-style-type: none"> To apply the concepts of management by the various management thinker. To learn the concepts and competence of planning. To acquire the knowledge of Organization and & staffing. To understand the importance of effectiveness of Directing and Leadership. To analyze the importance, process & types of controlling. To importance of effectiveness of Directing and qualities. 	<ul style="list-style-type: none"> Apply the concepts of management by the various management thinker. Learn the concepts and competence of planning. Acquire the knowledge of Organization and & staffing. Understand the importance of effectiveness of Directing and Leadership. Analyze the importance, process & types of controlling. The importance of effectiveness of Directing and qualities. 	regional developmental needs
2	MANAGING BEHAVIOR IN ORGANIZATION	ABA201	<ul style="list-style-type: none"> To get the current knowledge about Organization. To identify and learn the fundamental concepts of Organization behavior. 	<ul style="list-style-type: none"> Get the current knowledge about Organization. Identify and learn the fundamental concepts of Organization behavior. 	regional developmental needs

			<ul style="list-style-type: none"> • To make the students learn the application of the organization concepts. • To acquire the cross-cultural management concepts. • To acquire the knowledge about organizational change and Development. • To learn the organizational behavior and the culture of the organization in the present scenario. 	<ul style="list-style-type: none"> • Make the students learn the application of the organization concepts. • Acquire the cross-cultural management concepts. • Acquire the knowledge about organizational change and Development. • Learn the organizational behavior and the culture of the organization in the present scenario. 	
3	ABNORMAL PSYCHOLOGY - I	SY417	<ul style="list-style-type: none"> • To know about abnormal behavior, DSM-V and ICD- 11 • To relate between normal and abnormal behavior • To explain about the clinical features and causes of neuro developmental disorders • To know the clinical features and causal factors of anxiety related disorder • To understand clinical features and causal factors of somatic and dissociative disorder 	<ul style="list-style-type: none"> • Gain knowledge about abnormal behavior, DSM-V and ICD- 11 • Distinguish between normal & abnormal behavior and outline the historical background and need for classification • Identify clinical features and causes of neurodevelopmental disorder, conduct disorder & neuro-cognitive disorder • Explain the clinical features and causal factors of anxiety related disorder • Outline the clinical features and causal factors of somatic and dissociative disorder • Demonstrate the models of abnormality. 	regional developmental needs

				<ul style="list-style-type: none"> • Explain the somatic disorder and disassociate disorder. 	
4	ABNORMAL PSYCHOLOGY – II	SY501	<ul style="list-style-type: none"> • To describe about the causes of mood disorder and treatment • To know the clinical features causal factor and treatment of schizophrenia • To explain the types, causes and treatment of personality disorders • To introduce types, causal and treatment of substance related disorder • To gain knowledge about the prevention and learn the different models of therapies. 	<ul style="list-style-type: none"> • Explain the causes of mood disorder and treatment • Outline the clinical feature, causal factor and treatment of schizophrenia and other psychotic disorder. • Gain knowledge about the types, causes and treatment of personality disorders. • Explain the types, causal and treatment of substance related disorder • Identify the different types of prevention and summarize the different models of therapies. • Explain about suicide and its causes. • Illustrate the prevention and treatment of disorders. 	regional developmental needs
5	EXPERIMENTAL PSYCHOLOGY- I	PSY501	<ul style="list-style-type: none"> • To learn the psychological testing and purposes. • To know the need for the psychological testing or experiments. • To learn practical exposure to various psychological concepts. • To conduct psychological 	<ul style="list-style-type: none"> • Have knowledge about psychological testing and purposes. • Identify the need for the psychological testing or experiments. • Review the concepts of psychology through the mediums of the experiments. 	regional developmental needs

			<p>experiments to measure individual's Attention, Perception, Learning, Motivation & Emotion, Psychomotor abilities and Intelligence</p> <ul style="list-style-type: none"> • To Assess, diagnose and interpret the tests and its related results 	<ul style="list-style-type: none"> • Enhance the experimental knowledge of psychology • Gain practical exposure to various psychological concepts such as Attention, Perception, Learning, Motivation & Emotion, Psychomotor abilities and Intelligence Tests. • Conduct psychological experiments to measure individual's Attention, Perception, Learning, Motivation & Emotion, Psychomotor abilities and Intelligence • Assess, diagnose and interpret the tests and its related results 	
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6	SOCIAL PSYCHOLOGY- II	SY602	<ul style="list-style-type: none"> • To get introduced to the theories of persuasion • To learn about the group behaviors in relation to individual's performance • To know about the nature, sources and consequences of prejudice • To understand the theories of aggression and strategies to regulate aggression . • To know the dynamics of intimate relationships in relation to internal and external sources of attraction 	<ul style="list-style-type: none"> • Comprehend the theories of persuasion and illustrate the factors in resisting persuasion • Explain the influence of various group behaviors in relation to individual's performance • Outline the nature, sources and consequences of prejudice and illustrate methods to counteract effects of prejudice • Summarize the theories of aggression and strategies to regulate aggression • Identify the dynamics of intimate relationships in relation to internal and external sources of attraction. • Define the concept of aggression and its type • Classify the love, liking and close relationship 	regional developmental needs
7	GUIDANCE AND COUNSELLING PSYCHOLOGY	SY603	<ul style="list-style-type: none"> • To know the basics of Counseling and Guidance • To learn the different approaches to counselling and its Process • To gain the knowledge about the Psychological testing and Diagnosis methods • To acquire knowledge about 	<ul style="list-style-type: none"> • Explain the basics of Counselling and Guidance • Compare the different approaches to counselling and its Process • Develop and acquire skills in problem solving and decision making • Gain the knowledge about the Psychological testing and 	regional developmental needs

			<p>qualities and responsibilities of counsellor and ethical consideration</p> <ul style="list-style-type: none"> • To understand the Special areas in counselling 	<p>Diagnosis methods</p> <ul style="list-style-type: none"> • Implement the applications of various psychological tests • Acquire knowledge about qualities and responsibilities of counsellor and ethical consideration • Identify the Special areas in counselling 	
8	ENVIRONMENTAL PSYCHOLOGY- (ELECTIVE- II)	SY604C	<ul style="list-style-type: none"> • To learn the basic concepts of environmental psychology and research methods in environmental psychology • To understand the ecology and development • To describe the environmental perception and effect of environment on behavior • To know the features and effects of crowding on animals and human beings • To explain the changing behavior to save the environment 	<ul style="list-style-type: none"> • Explain the basic concepts of environmental psychology and research methods in environmental psychology • Relate the ecology and development • Implement the various theoretical concepts • Describe the environmental perception and effect of environment on behavior • Identify and analyze environmental problems as well as the risks associated with these problems • Relate the features and effects of crowding on animals and human beings • Explain the changing behavior to save the environment 	regional developmental needs

9	EXPERIMENTAL PSYCHOLOGY II- (PRACTICALS)	PSY601	<ul style="list-style-type: none"> • To learn the need for the psychological testing or experiments. • To analyze and apply the understanding of psychological testing • To gain practical exposure to various psychological concepts • To assess, diagnose and interpret the tests and its related results • To interpret and assess the role of psychological testing in various field 	<ul style="list-style-type: none"> • Have knowledge about psychological testing and purposes. • Identify the need for the psychological testing or experiments. • Analyze and apply the understanding of psychological testing • Gain practical exposure to various psychological concepts such as Personality, Aptitude, Interest, Achievement tests, Stress and coping, Attitudes and behavior and Creativity • Conduct psychological experiments to measure individual's Personality, Aptitude, Interest, Achievement tests, Stress and coping, Attitudes and behavior and Creativity • Assess, diagnose and interpret the tests and its related results • Interpret and assess the role of psychological testing in various field 	regional developmental needs
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Name of the Programme: MSc Counselling Psychology

S No	Title of the Paper	Course Code	Course Objectives	Course Outcomes	Relevance
1	PSYCHOLOGICAL TESTING (SK-1)	MSY134S	<ul style="list-style-type: none"> • Offer training administer and interpret Psychological Tests • Comprehend the relevance and usefulness of various psychological tests • Offer training in planning for therapy sessions • Teach the application of tests in clinical and non clinical set up • Develop self awareness using the psychological tests 	<ul style="list-style-type: none"> • Demonstrate competence in administering, scoring and interpreting the psychological tests. • Identify the relevant tests to be used for specific counselling needs • Infer test reports for planning counselling and therapy sessions • Understand oneself and develop self awareness through the usage of psychological tests. • Apply the tests in counselling set up for clinical, non-clinical, literate and illiterate population • Learn to write report and completing the psychological tests. 	regional developmental needs

2	BEHAVIOUR MODIFICATON (ME-1)	MSY334A	<ul style="list-style-type: none"> • To make the students aware of the basic concepts of behaviour modification • To transmit knowledge and develop skills needed for applying behavior modification techniques. • To pass on knowledge and develop skills towards self-development. • To use the techniques to increase desirable behaviour and decrease undesirable behavior • To apply behaviour therapy in clinical setup 	<ul style="list-style-type: none"> • Understand the concept of behaviour modification and its applications. • Applying a behaviour modification program to shape or change behaviour. • Develop skills and techniques needed for modification of behaviour and self-development. • Use behaviour modification techniques to increase acceptable behaviour and decrease misbehaviour. • Identify and diagnose different psychological disorders and apply the different treatment programs. • Investigate the social and cultural influences on human behaviour. 	regional developmental needs
3	COMMUNITY PSYCHOLOGY (ME-2)	MSY433A	<ul style="list-style-type: none"> • To learn the linkage between individuals, communities and societies and handle social issues more effectively with people's participation. • To understand the role and the core values of community psychology. • To understand various mental health issues among students. • To understand various natural disasters and its consequences. • To teach counselor's role in 	<ul style="list-style-type: none"> • Analyze the link between individuals and communities and deal with social issues more effectively. • Identify critical elements of the community psychology approach. • Find out the mental health problems concerning with human activities and developmental processes. • Understand the strategies for conservation of nature and natural resources and to solve the 	regional developmental needs

			community development.	<p>emerging problems related to environment degradation.</p> <ul style="list-style-type: none"> • Understand the counsellor's role in environment's potential and interventions to improve people's health and psychological well-being. • Develop skills for identifying and solving environmental problems. 	
4	ORGANIZATIONAL PSYCHOLOGY (ME-2)	MSY433C	<ul style="list-style-type: none"> • Obtain knowledge about organizational psychology. • Understand the functions and activities of organization. • Acquire the skills of working with organized sectors and human resources. • Explain managing self-competency and communication competency. • Explain how job satisfaction and organizational commitment affect performance. 	<ul style="list-style-type: none"> • Explain the importance of organizational psychology (OP) and build the relationship between OP and business management. • Explain conflicts in organizations and solution techniques through job analysis, leadership and motivation theories • Compare attitudes and attitudes measurement • Appraise the necessary interpersonal, behavioral and technical skills for application in the work setting • Articulate motivation techniques through effective leadership types. • Prioritize the relationship among organizational citizenship behavior, organizational commitment and job satisfaction. 	regional developmental needs

5	EMPLOYABILITY SKILLS (SK-2)	MSY434S	<ul style="list-style-type: none"> • Understand the career planning skills in their interest field. • Acquire knowledge about the recruitment channels and analyzing the job advertisements. • Obtain the skill of resume writing. • Develop their teamwork, planning and organizational skills. • Create wider outlook on career decision making process. 	<ul style="list-style-type: none"> • Understand the career planning skills in their interest field. • Identify employment opportunities complete a job application including a CV for a specific job opportunity. • Relate and describe one career path appropriate for oneself • Compare employability skills and personal attributes in relation to job selection methods • Analyze the skills and attributes required to maintain and successfully develop in employment. • Identifying skills and personal attributes commonly required by employers 	regional developmental needs
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Name of the Programme: B.Sc Microbiology

S No	Title of the Paper	Course Code	Course Objectives	Course Outcomes	Relevance
1	SSP – 2: DAIRY TECHNOLOGY	MB607SP 1	<ul style="list-style-type: none">To encode the importance of the role of microorganisms in Dairy industriesTo obtain a good understanding of Dairy microbiology and become an Entrepreneur.To obtain knowledge in food quality and spoilage of Dairy products.	<ul style="list-style-type: none">The Self-study paper Dairy Technology is about the study of milk and milk-derived food products. It focuses on the biological, chemical, physical, and microbiological aspects of milk itself, and on the technological aspects of the transformation of milk into its various consumer products including fermented products, concentrated and dried products, butter and ice cream. This course also provides information about the role of microorganisms in Dairy products development	Regional and national developmental needs



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Name of the Programme: MSc Applied Microbiology

S No	Title of the Paper	Course Code	Course Objectives	Course Outcomes	Relevance
1	ELECTIVE – PUBLIC HEALTH MICROBIOLOGY	MB804C	<ul style="list-style-type: none">To strengthen the knowledge of personal health care and hygienic to students.To provide a detailed study on vaccine and its schedule throughout the life time.To acquaint the student with basic concept of public health and prophylactic measures.To understand air, Food, water, insect borne infectious diseases.To create public awareness, individual behavior, and disease prevention.	<ul style="list-style-type: none">Create awareness to prevent disease, promote health, and prolong life among the population as a whole.Provide conditions in which people can be healthy and focus on entire populations, not on individual patients or diseases.Operate and employ the National disease control plans for major infectious diseases.Understanding the Comprehensive health education campaigns to increase public awareness of these diseases in rural areas of India.Support for the investigation, management and control of infection and outbreaks of	Local and Regional developmental needs

				<p>Communicable disease.</p> <ul style="list-style-type: none"> • Provide assistance during field investigations by processing Clinical samples. 	
2	MUSHROOM TECHNOLOGY	MB903	<ul style="list-style-type: none"> • To modify of the Mushroom cultivation in a scientific way for livelihood. • To differentiate edible and poisonous mushrooms and their effects. • To encode the importance of the Mushrooms. • To outline the process of Mushroom cultivation. • To obtain a good understanding of Mushroom cultivation and its disease control. 	<ul style="list-style-type: none"> • Provides the information about the Cultivation, Nutritional value and Medicinal value of Mushrooms. • Gaining knowledge about different types of Mushrooms. • Analyze the pathological damage on mushrooms and outline the post-harvest practices. • Demonstrate the methods for Disease control in Mushrooms. • Assess the nutrient and medicinal value of edible mushrooms and analyse effects of mushroom poisoning. • Develops Entrepreneurial skill on Production and Marketing of Mushroom. 	Local and Regional developmental needs



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Name of the Programme: B.A. History

S No	Title of the Paper	Course Code	Course Objectives	Course Outcomes	Relevance
1	HISTORY OF INDIA (1707 - 1857 A.D)	HT304	<ul style="list-style-type: none"> To understand the struggle for supremacy among the European powers. To study the background for the decline of the native states and establishment of the British rule in India. To know about the Indian upheavals against colonial rule. To understand the introduction of modern political institutions in the nineteenth century. To study the nature of social and political changes under the British. 	<ul style="list-style-type: none"> Assess the expansion of European settlements in India. Review the different policies and methods of the colonial administrators. Analyze the various battles of British to consolidate their colonial rule in India. Highlight the development of the imperial legislature during the British rule. Reconstruct the native resistance against foreign rule during the 18th and 19th centuries 	regional and national developmental needs
2	ALLIED – III: PRINCIPLES OF PUBLIC ADMINISTRATION	AH309	<ul style="list-style-type: none"> To explain the nature, scope and importance of public administration. To illustrate the major 	<ul style="list-style-type: none"> Acquire depth knowledge of Pubic Administration. To receive the knowledge on 	regional and national developmental needs

			<p>theories of public administration.</p> <ul style="list-style-type: none"> To understand the relative role of chief executive, line, staff and auxiliary agencies. To study the various methods of recruitment and training. 	<p>principles of organizations.</p> <ul style="list-style-type: none"> Examine the merits of the chief executive. To explain the objectives of personnel administration. To understand the benefit of budgetary system in India 	
3	HISTORY OF INDIA (1858 – 1947 A.D)	HT403	<ul style="list-style-type: none"> To highlight the British Administration in India from 1858 – 1947 A.D. To understand the constitutional growth under the British Rule. To trace the history of Indian National Movement. To understand the development of representational and institutions self-governance mechanism. Discuss the events that led to the partitioning British India. 	<ul style="list-style-type: none"> Explain the British Administration in India from 1858 – 1947 A.D. Discuss the constitutional growth under the British Rule Assess the socio – economic changes and developments during the British Rule. Evaluate the history of Indian National Movement. Analyze the contribution of social reformers in British India. 	regional and national developmental needs
4	CONTEMPORARY HISTORY OF INDIA (1858 – 1947 A.D)	HT404	<ul style="list-style-type: none"> To study the process of Constitution making and integration of native states. To understand the significance of Indo-Pak war and Tashkent Agreement. To know about the total revolution and the emergence of Janata party. To examine the policies and programmes of Congress 	<ul style="list-style-type: none"> Assess the consolidation of India during the Nehru era. Summarize the policies of Lal Bahadur Shastri and Indira Gandhi. Discuss the administration of Janata Government and Re-emergence of Indira Gandhi. Analyze the introduction of new economic policy and its impact Examine the consolidation of 	regional and national developmental needs

			<p>and National Front Governments.</p> <ul style="list-style-type: none"> To study the Coalition governments from 1996 to 2014 and its impact in domestic and foreign policy. 	<p>economic development and foreign policy under the Coalition Governments.</p>	
5	THE CONSTITUTION OF INDIA	HT407	<ul style="list-style-type: none"> To study the evolution of Indian Constitution. To understand the rights and duties of the citizens of India. To learn about the basic principles of Indian constitution. To analyze the working of the union government, state government, and the relationship between the two. To assess the importance of constitutional bodies like the Election Commission and Public Service Commissions 	<ul style="list-style-type: none"> Students would be able to study the nature and unique features of Indian constitution. They get familiarized with DPSP and other provisions of the constitution. They would get an idea about the concepts like fundamental rights and duties, federalism, citizenship etc. Evaluate the role of the Indian judiciary in interpreting and uploading the Constitution. Appreciate the role of the constitutional bodies. 	regional and national developmental needs
6	CONSTITUTION OF INDIA	HT508	<ul style="list-style-type: none"> To study the evolution of Indian Constitution. To understand the rights and duties of the citizens of India. To learn about the basic principles of Indian constitution. To analyze the working of the union government, state government, and the 	<ul style="list-style-type: none"> Students would be able to study the nature and unique features of Indian constitution. They get familiarized with DPSP and other provisions of the constitution. They would get an idea about the concepts like fundamental rights and duties, federalism, citizenship etc. 	regional and national developmental needs

			<p>relationship between the two.</p> <ul style="list-style-type: none"> To assess the importance of constitutional bodies like the Election Commission and Public Service Commissions. 	<ul style="list-style-type: none"> Evaluate the role of the Indian judiciary in interpreting and uploading the Constitution. Appreciate the role of the constitutional bodies. 	
7	MAKERS OF MODERN INDIA	HT510A	<ul style="list-style-type: none"> To Study the nature of French Revolution and emergence of Mahatma gandhi To analyse the unification process of Italy and Germany To realise the basic reasons, trends and impacts of WWI and peace treaties To learn the common problems of WWII and its results To focuss on the cold war and emergence of power blocs and disintegration india 	<ul style="list-style-type: none"> To Study the nature of French Revolution and emergence of gandhi To analyse the unification process of Italy and Germany To realise the basic reasons, trends and impacts of WWI and peace treaties To learn the common problems of WWII and its results To focuss on the cold war and emergence of power blocs and disintegration India 	regional and national developmental needs



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Name of the Programme: PGDMLT

S No	Title of the Paper	Course Code	Course Objectives	Course Outcomes	Relevance
1	HUMAN PATHOGENS & BODY FLUID ANALYSIS	BCD210	<ul style="list-style-type: none"> • To acquire broad knowledge on human pathogens, its symptoms, causes and treatment. • To understand the fundamentals concepts in bacteriology, virology and mycology. • To know the basics of source and mode of action of Viruses and fungi infecting the humans. • To comprehend the formation, collection and functions of Amniotic and Cerebrospinal fluids. • To exhibit skills on the formation, collection and functions of Serous fluid and other body fluids. 	<ul style="list-style-type: none"> • Identify the fundamentals concepts in human pathogens, its symptoms, causes and treatment. • Demonstrate broad knowledge on the fundamentals concepts in bacteriology and virology. • Distinguish the fundamentals concepts in mycology and its pathogenesis in humans. • Determine to know the fundamentals of source and mode of action of Human Viruses and fungi. • Correlate and measure the formation, collection and functions of Amniotic and Cerebrospinal fluids. • Originate on the formation, collection and functions of Serous fluid and other body fluids. 	Regional developmental needs



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Name of the Programme: PG Diploma in Human Resources Management

S No	Title of the Paper	Course Code	Course Objectives	Course Outcomes	Relevance
1	HUMAN RESOURCE MANAGEMENT AND INFORMATION SYSTEM	MSDH122	The basic objective of this course is to provide to the country a steady stream of competent young men & women with the necessary knowledge, skills and foundations for acquiring a wide range of rewarding careers into the rapidly expanding world of Human Resource Management.	<ul style="list-style-type: none"> • Understand the concept of human resource management and to understand its relevance in organizations • Analyze the strategic issues and strategies required to select and develop manpower resources. • Integrate the knowledge of HR concepts to take correct business decisions • Explain the purpose of Human Resources Information System and how it facilitates HR Program • Develop HRIS software with a focus on Recruitment, Selection, Performance Management, Employee Tracking, Payroll, and Employee Separation 	Local/ Regional
2	INDUSTRIAL RELATIONS AND EMPLOYEE WELFARE	MSDH124	The basic objective of this course is to provide to the country a steady stream of competent young men & women with the necessary knowledge, skills and foundations for acquiring a wide range of rewarding careers into the rapidly expanding world of Human	<ul style="list-style-type: none"> • Describe fundamental concepts and nature of Industrial Relations • Understand the nature and role of trade unions for workers and industries • Examine the relevance of Welfare measures collective bargaining and its impact on employee- 	Local/ Regional

			Resource Management.	<p>management relations</p> <ul style="list-style-type: none"> • Assess the issues related to Industrial health hazards, hygiene and psychological problems faced by the employees in Industry • Acquire skills in handling employer-employee relations in labour management 	
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Name of the Programme: PG Diploma in Import and Export Management (PGDIEM)

S No	Title of the Paper	Course Code	Course Objectives	Course Outcomes	Relevance
1	EXIM POLICY & EXPORT PROCEDURE & DOCUMENTATION	MSDI121	The basic objective of this course is to provide to the country a steady stream of competent young men & women with the necessary knowledge, skills and foundations for acquiring a wide range of rewarding careers into the rapidly expanding world of Import Export Management.	<ul style="list-style-type: none">• On successful completion of this course, students will be able to• Learn and understand the export policy and procedure related to export domain• Categorize the various terms and conditions of exports with due respect to pre-shipment, post-shipment and EGC services• Update the benefits and gains of export and apply it in real life• Articulate export promotion scheme and create business	Local/ Regional

				<p>opportunities amidst graduates</p> <ul style="list-style-type: none"> • Focus on the commodities of India and create an awareness 	
2	EXPORT AND IMPORT MANAGEMENT	MSDI223	<p>The basic objective of this course is to provide to the country a steady stream of competent young men & women with the necessary knowledge, skills and foundations for acquiring a wide range of rewarding careers into the rapidly expanding world of Import Export Management.</p>	<ul style="list-style-type: none"> • Develop an understanding of export and import • Outline the nature of international trade • Formulate the methods of EXIM documentation • Understand the importance and relevance of foreign trade policy • Compile the ways and means of processing the EXIM orders. 	<p>Local/ Regional</p>



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Name of the Programme: PG Diploma in Logistics Management (PGDLM)

S No	Title of the Paper	Course Code	Course Objectives	Course Outcomes	Relevance
1	SUPPLY CHAIN MANAGEMENT	MSDL121	The basic objective of this course is to provide to the country a steady stream of competent young men & women with the necessary knowledge, skills and foundations for acquiring a wide range of rewarding careers into the rapidly expanding world of Logistic and Supply Management.	<ul style="list-style-type: none"> • Understand the fundamentals, Evolution and performance of supply chain • Ability to design supply chain networks to enhance supply chain performance of supplier • Organize demand based inventory and supply • Evaluate the supply chain network models in supply chain performance and decisions • Assess the innovations for sustainable development in supply chain management 	Regional
2	WAREHOUSE MANAGEMENT	MSDL221	The basic objective of this course is to provide to the country a steady stream of competent young men & women with the necessary knowledge, skills and foundations for acquiring a wide range of rewarding careers into the rapidly expanding world of Logistic and Supply Management.	<ul style="list-style-type: none"> • List the activities carried out there are the receipt, storage, preparation and dispatch of goods • Classify materials are accessible whenever the production department needs them, ensuring that production is not stopped or slowed down due to a lack of resources 	Regional

				<ul style="list-style-type: none">• Organize to purchasing products or stock on a regular basis, an organisation may negotiate discounts and other incentives to lower the overall cost• Evaluate and describing proper and safe warehouse operations and techniques• Comparing operational warehouse processes using terminology, concepts and methods of warehouse management	
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Name of the Programme: PGDCS

1	Big Data & IOT Security	CADC204	<ul style="list-style-type: none"> • To understand the consequences of security in BigData and IoT. • To learn the security mechanisms applied in BigData and IoT. 	<p>Observe and Discuss the need of security in IoT. Recognize and Elicit the security mechanisms of IoT Identify and Classify the details of IoT Security Architecture Determine and Correlate the details on Security threat in IoT Perception Layer Determine and Correlate the details on Security threat in IoT Networking Layer Determine and Correlate the details on Security threat in IoT Processing Layer</p>	regional developmental needs
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Name of the Programme: PGDDS

S No	Title of the Paper	Course Code	Course Objectives	Course Outcomes	Relevance
1	Optimization Techniques	CADD101	<ul style="list-style-type: none"> To understand the basics of optimization. 	<ul style="list-style-type: none"> Choose, Draft and Formulate transportation problems. 	Regional developmental needs
2	Introduction to Data Science	CADD102	<ul style="list-style-type: none"> To learning the founding principles of Datascience. To learn Artifical intelligence concepts, searching and learning algorithms. 	<ul style="list-style-type: none"> Discover and Discuss the various technologies used in data science Recognize and Elicit the founding principles of Data Science. Identify, compare and correlate the Artificial intelligence concepts, searching and learningalgorithms. 	Regional developmentalneeds

				<ul style="list-style-type: none">• Identify and illustrate the methods and techniques commonly used in data science.• Analyze and Evaluate how data analysis, inferential statistics, modeling, machine learning, and statistical computing can be utilized in an integrated capacity.• Observe and Demonstrate the ability to clean and prepare data for analysis and assemble data from a variety of sources.	
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3	Introduction to Data warehouse and Data Mining	CADD10 3	<ul style="list-style-type: none"> • To learn about the basics of Data warehouse and data mining. • To understand clustering and web mining. 	<ul style="list-style-type: none"> • Remember, Understand and explain the fundamentals of Data Warehouse and Data Mining • Apply the concepts of association mining, clustering classification and Regression • Analyze and choose a suitable data mining task for a specific problem and support the choice of approach adopted. • Compare and Correlate the results various data mining techniques for a specific problem. • Identify and Apply real-world problems in business and scientific information using data mining techniques • Draft and Build statistical predictive models using various 	<p>Regional developmentalneeds</p>
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				techniques such as neural networks, decision trees and logistic regression.	
4	Machine Learning	CADD20 2	<ul style="list-style-type: none"> To learn the concepts of machine learning. <ul style="list-style-type: none"> To understand association rules, classification and prediction techniques. 	<ul style="list-style-type: none"> Understand and Comprehend the Machine Learning Concepts Identify the use cases of the supervised and unsupervised learning algorithms Analyse the logic behind the execution of various classifiers Compute and compare the performance of different algorithms for mining data 	Regional needs

				<ul style="list-style-type: none"> • Demonstrate and analyse the clustering methods • Propose solution for real word problems 	
5	Deep Learning	CADD20 3	<ul style="list-style-type: none"> • To understand Linear Regression and Regularization. • To learn the concepts of Deep Learning and its applications. 	<ul style="list-style-type: none"> • Observe and Apply the concepts of Deep Learning and its applications • Identify and Use the configuration of Deep Feed Forward Networks • Comparing and Correlating the Learning and Optimization Algorithms • Identify and Practice Regularization for Deep Learning • Observe and Discuss the concepts of Convolutional networks • Identify, Analyze and Evaluate the applications of Deep Learning 	Regional needs

6	Technologies for Data Science	CADD20 4	<ul style="list-style-type: none"> • To understand the technologies in data science. • To learn the concepts of Hadoop, Map-Reduce, HIVE, SQOOP and PIG. 	<ul style="list-style-type: none"> • Identify and Discover the various technologies used in Data Science • Recognize and Discuss Big Data and its analytics in the real world • Identify, Draft and Develop Big Data Solutions using Hadoop • List and Leverage Hadoop as a reliable, scalable MapReduce framework • Demonstrate and Install and interact the HIVE, SQOOP and PIG tools • Apply and Demonstrate the ability to clean and prepare data for analysis using HIVE, SQOOP and PIG tools 	<p style="text-align: center;">Regional developmental needs</p>
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Name of the Programme: MSW (HRM)

S No	Title of the Paper	Course Code	Course Objectives	Course Outcomes	Relevance
1	LABOUR WELFARE AND LABOUR LEGISLATIONS	MHR201T	<ul style="list-style-type: none"> • To empower students with the concept, definitions, objectives, principles, theories, need, characteristics of Industrialization and Labour Legislations. • To make students understand the need, importance, objectives and functions of labour welfare. • To comprehend the labour legislations on occupational safety, health and working conditions, wages, industrial relations and social security followed in various settings. • To make students to understand and acquire knowledge on various rules, forms and calculations available in each act. • To prepare students to handle issues and challenges faced in implementing and following the labour legislations. • To prepare students to acquire the skills to approach government officials and departments which deal with Labour and employment. 	<ul style="list-style-type: none"> • Gain knowledge, recognize, understand, explain, describe and illustrate the concepts, definitions, objectives, characteristics, principles about industrialization and labour legislations. • Understand, characterize, plan, connect, and consider the need, importance and functions of labour welfare. • Acquire knowledge, analyze and focus on various labor legislations with regard to employee's safety, health, working conditions, wages, social security and relationship Labour Legislations • Adapt, integrate, perform, facilitate, fit, integrate, consider rules and forms and calculate the formulas from each legislation. • Identify cases and issues related to labour legislations and integrate, relate, compare and justify the theoretical knowledge in solving those issues. • Prepare, respond and calibrate the skill in handling government officials and departments dealing with Labor and Employment by meeting various government officials and District Industrial Safety and Health Department. 	Regional developmental needs