



AUXILIUM COLLEGE (Autonomous)

(Accredited by NAAC with A+ Grade with a CGPA of 3.55 out of 4 in the 3rd cycle)
Gandhi Nagar, Vellore – 6.

1.1.1. Curricula developed and implemented have relevance to the local, national, regional and global developmental needs which is reflected in Programme outcomes (POs), Programme Specific Outcomes (PSOs) and Course Outcomes (COs) of the Programmes offered by the Institution.

FOCUS: ENTREPRENEURIAL NEEDS

Programme	Course Code	Title of Course	Description	PO	PSO	CO
B.A. English	UATOT20	Allied IV: Techniques of Translation	The course aims at training students to become free-lance translators	Attain knowledge and understand the principles and concepts in the respective discipline.	Apply the knowledge of form, structure, history and contextual cultural diversity and comprehend the applications of the English Language in practice	Apply theoretical approaches to translate literary and non-literary texts
B.B.A	UCBAA20	Principles of Management	Course designed to meet the fundamental concepts of management, functions and its principles	To attain knowledge and understand the managerial principles and concepts of the course adopted.	To attain the ability to be self - directed towards their career and contribute to the society as responsible citizens.	Acquire the knowledge related to management concepts and its principles
B.B.A	UABUA20	Business Communication	Course depicts the basic concepts of communication process	Communicate the general ideas, opportunities and opinions and to become empowered and motivated citizens of the	Acquire the basic and managerial communications skills to gain professionalism.	Impart the importance of Communication and to understand the concepts of Communication.

				country.		
B.B.A	UCBAC20	Organisational Behaviour	Know the fundamental concept of Organizational Behaviour	Adapt towards the positive thinking capacity, to adapt the social values, to exercise leadership qualities and bringing out their capabilities through team work	To get an exposure by applying the theoretical knowledge into practice by carrying out the institutional training and projects in the organizations.	Assess the attitudinal and motivational behaviour and group dynamics of an individual
B.B.A	UABEA20	Business Environment and Ethics	To know about the environment and its impact on business. Recognize the importance of business ethics and social responsibility in today's business	Mold the students to face the challenges in the global business environment and the society.	To attain the ability to be self - directed towards their career and contribute to the society as responsible citizens.	To know about the environment and its impact on business. To recognize the importance of business ethics and social responsibility as an individual to the society
B.B.A	UCBAE20	Marketing Management	Course comprehend the principles, concepts and functions of marketing and to design a marketing strategy for a dynamic marketing and attain the knowledge of Marketing Mix	Mold the students to face the challenges in the global business environment and the society.	Acquire the basic and managerial communications skills to gain professionalism.	Learn the recent trends in marketing
B.B.A	UCBAF20	Financial Accounting	Course highlights the fundamentals of accounting.	Prepare the students to be persistent enough to pull out their own ideas and opinions and to become a strong pillar to the family and society highlighting their	Acquire the ability to be a future leader, manager and an entrepreneur reflecting ethical and social values.	Give them a basic knowledge of accounting principles and practices

				feminine power.		
B.B.A	UAEBA20	Economics for Business	Course understand the economic concepts and techniques in evaluating business decisions	Attain knowledge and understand the principles and concepts in the respective discipline.	To attain knowledge and understand the managerial principles and concepts of the course adopted.	Have depth knowledge in the basics of Managerial Economics
B.B.A	UEBAB20	Logistics and Supply Chain Management	To familiarize the students with the basic concepts of logistics and supply chain management	To be stimulated towards the change and to be conscious for sustainable development of the society	To acquire the ability to be a future leader, manager and an entrepreneur reflecting ethical and social values.	Be enriched about the activities involved in distribution network planning and Integrated Supply Chain Management
B.B.A	UCBAH20	Cost and Management Accounting	To enable the students, understand the concept of Management and Cost Accounting	Prepare the students to be persistent enough to pull out their own ideas and opinions and to become a strong pillar to the family and society highlighting their feminine power.	Acquire the ability to be a future leader, manager and an entrepreneur reflecting ethical and social values.	Gain knowledge on the concepts of management and cost accounting techniques
B.B.A	UCBAJ20	Research Methodology	To understand the basic concepts of research	To formulate, to apply the theoretical knowledge into practice by carrying the institutional training and projects, to adopted sense of creative thinking and learn problem solving skills to take up challenges faced in today's modern world.	To get an exposure by applying the theoretical knowledge into practice by carrying out the institutional training and projects in the organizations	Know the general definition of research and qualities of research. Be able to write report and do statistical analysis

B.B.A	UCBAK20	Human Resource Management and Development	Course designed to understand the various HR functions like Recruitment, selection, training process and also about performance appraisal.	Mold the students to face the challenges in the global business environment and the society.	To acquire the ability to be a future leader, manager and an entrepreneur reflecting ethical and social values.	Attain the knowledge of the various HR functions and its importance
B.B.A	UAITR20	Institutional Training	Course designed to demonstrate the capability of the student in studying the organization and its process in totality.	To formulate, to apply the theoretical knowledge into practice by carrying the institutional training and projects, to adopted sense of creative thinking and learn problem solving skills to take up challenges faced in today's modern world.	To get an exposure by applying the theoretical knowledge into practice by carrying out the institutional training and projects in the organizations.	The Students can acquire the capability of applying the theoretical knowledge into practice covering Production, Human resource, Finance and Marketing to carry out her institutional training with the approval of the department
B.B.A	UCBAL20	Financial Management	Course enable the learners to understand concept of financial management, scope, objectives and time value of money.	To be stimulated towards the change and to be conscious for sustainable development of the society	To attain the ability to be self - directed towards their career and contribute to the society as responsible citizens.	Be well-versed in the financial decision, functions and organisation of financial managements
B.B.A	UCBAM20	Industrial Relations	Course is designed to cover the basic concepts of Industrial Relations	To communicate the general ideas, opportunities and opinions and to become empowered and motivated citizens of the country.	To acquire the ability to be a future leader, manager and an entrepreneur reflecting ethical and social values.	Understand the basic concepts of Industrial relations like payment of wages act, factories act, maternity act, Industrial disputes act, Employees state insurance act.

B.B.A	UCBAN20	Banking and Insurance	Course impart the knowledge of banking system and its services	To be stimulated towards the change and to be conscious for sustainable development of the society.	To attain the ability to be self - directed towards their career and contribute to the society as responsible citizens.	Gain the knowledge as to how to open and operate accounts in bank and also maintaining relationship with bankers
B.B.A	UCBAR20	Project	Course is designed to make the students identify a problem in the organization based on the area of specialization and provide solutions and suggestions to the management.	To formulate, to apply the theoretical knowledge into practice by carrying the institutional training and projects, to adopted sense of creative thinking and learn problem solving skills to take up challenges faced in today's modern world.	To get an exposure by applying the theoretical knowledge into practice by carrying out the institutional training and projects in the organizations.	Course includes field studies, surveys, interpretation, planning and designing of the Research Methodology presented in a comprehensive manner with recommendations for solutions based on scientifically worked out data.
B.B.A	UCBAS20	Legal aspects of Business	Course designed to make the students learn the fundamental principles underlying in the law of contract.	To be passionate about multi-disciplinary approach for problem solving, critical analysis and decision making in their personal and professional life	To acquire the ability to be a future leader, manager and an entrepreneur reflecting ethical and social values.	Be thorough in the contractual relationships in business
B.B.A	UCBAT20	Production and Materials Management	The Course enable the students to understand the concept of production management, plant location and plant layout	To communicate the general ideas, opportunities and opinions and to become empowered and motivated citizens of the country.	Acquire the ability to be a future leader, manager and an entrepreneur reflecting ethical and social values.	Understand the concepts of production management, plant location and plant layout

B.B.A	UEBAC20	Total Quality Management	Course is designed to make the students understand the concepts of total quality management	To communicate the general ideas, opportunities and opinions and to become empowered and motivated citizens of the country.	To attain the ability to be self - directed towards their career and contribute to the society as responsible citizens.	Evaluate the principles of quality management and to explain how these principles can be applied within quality management systems
B.B.A	UEBAD20	Entrepreneurial Development	Course is designed to develop entrepreneurial way of thinking	To pursue higher knowledge, acquire quality professional education, and to develop entrepreneurial skills and contribute towards the needs of the society	Acquire the ability to be a future leader, manager and an entrepreneur reflecting ethical and social values.	Have the ability to discern entrepreneurial traits
B.B.A	UGBAA520	Human Resource Management	The course is designed to understand the basic concepts of HRM	To bring up the economically challenged, socially backward young women to be competent with today's expectation of the competitive world for their sustenance	To attain the ability to be self - directed towards their career and contribute to the society as responsible citizens.	Integrate the knowledge of HR concepts
B.B.A	USBAE520/ USBAE620	Campus to Corporate	Course is designed to build confidence, develop self-esteem, and to bring positive changes in the attitude & behaviour of the students	To bring up the economically challenged, socially backward young women to be competent with today's expectation of the competitive world for their sustenance	To acquire the basic and managerial communications skills to gain professionalism.	Proactively manage the transition from being the student to the employee

B.B.A	USBAF520/ USBAF620	Applications of GST	Course is designed to enable the students to learn the concepts of GST from the pre-GST period to post- GST period	To be passionate about multi-disciplinary approach for problem solving, critical analysis and decision making in their personal and professional life	To attain the ability to be self - directed towards their career and contribute to the society as responsible citizens.	Enable the students to learn the concepts of GST from the pre-GST period to post- GST period
B.B.A	USBAA120/ USBAA220	Life Style Management	Course is designed to understand the concept of self-management	Adapt towards the positive thinking capacity, to adapt the social values, to exercise leadership qualities and bringing out their capabilities through team work	To attain the ability to be self - directed towards their career and contribute to the society as responsible citizens.	Be equipped with the talent of self-management
B.B.A	USBAB120/ USBAB220	Winning Through Communication	Course is designed to understand the concept in communication	Adapt towards the positive thinking capacity, to adapt the social values, to exercise leadership qualities and bringing out their capabilities through team work	Acquire the basic and managerial communications skills to gain professionalism.	To understand the role of communication in Personal and Professional success
B.B.A	USBAD320/ USBAD420	Hotel Planning and Administration	Course is designed to develop a conceptual understanding of the Hotel Planning and Administration	To formulate, to apply the theoretical knowledge into practice by carrying the institutional training and projects, to adopted sense of creative thinking and learn problem solving skills to take up challenges faced in	Acquire the basic and managerial communications skills to gain professionalism.	Understand the concepts in Hotel Planning and Administration

				today's modern world.		
B.B.A	USBAC320/ /USBAC420	Hospital Planning and Administration	Course enable the students to understand the planning of Modern Hospital	To formulate, to apply the theoretical knowledge into practice by carrying the institutional training and projects, to adopted sense of creative thinking and learn problem solving skills to take up challenges faced in today's modern world.	Acquire the basic and managerial communications skills to gain professionalism.	Be familiarized with Organization Structure and Medical Records of a Hospital
B.C.A	USCSA320	SBE: Accounting Software	To develop computer skills of recording financial transactions, preparation of annual accounts and reports using Tally.	Effectively communicate general and discipline-specific information, ideas and opinions.	Acquire skills in computer and information technology and also be competent in the field of Commerce, Mathematics and Management.	Understand the basics in Tally and company creation Creating vouchers, ledgers accounts, Balance Sheet. Demonstrate Profit And Loss Account and Reconciliation of the bank account.
B.C.A	UCCAR20	Software Engineering	To develop, maintain efficient, reliable and cost-effective software solutions.	Emulate positive social values and exercise leadership qualities and team work.	Introduce and update knowledge relevant to IT like networking, computer graphics, web development, trouble shooting, and hardware and software skills. Also to develop software solutions to problems across a broad range of	Apply the software engineering lifecycle by demonstrating competence in communication, planning, analysis, design, construction, and deployment

					application domains through analysis and design.	
B.C.A	UECAE20	Elective II B: Computer Graphics	Understand three-dimensional graphics and their transformations and to become familiar with clipping techniques.	Effectively communicate general and discipline-specific information, ideas and opinions.	Become proficient and ensure job in the key areas of computer science like Web designing and development, Mobile applications, Network and communication technologies, undertaking government organizations, faculty for computer science and applications in educating institutions.	Understand the basic objectives and scope of computer graphics To acquire knowledge on graphics hardware devices and software used.
B.C.A	UECAF20	Elective III A: Mobile Computing	Understand fundamentals of wireless communications. Analyze security, energy efficiency, mobility, scalability, and their unique characteristics in wireless networks.	Pursue higher knowledge, qualify professionally, enhance entrepreneurial skills and contribute towards the needs of the society.	Become proficient and ensure job in the key areas of computer science like Web designing and development, Mobile applications, Network and communication technologies, undertaking government organizations, faculty for computer science and applications in educating institutions.	Understand the basic concepts of mobile computing. Analyze security, energy efficiency, mobility, scalability, and their unique characteristics in wireless networks.

B.C.A	UECAG20	Elective III B: Artificial Intelligence	Investigate applications of AI techniques in intelligent agents, expert systems, artificial neural networks and other machine learning models.	Attain knowledge and understand the principles and concepts in the respective discipline.	Ability to work as a member or leader in diverse teams in multidisciplinary environment. And identify opportunities, entrepreneurship vision and use of innovative ideas to create value and wealth for the betterment of the individual and society.	Understanding different types of AI Agents and its Environments.
B.C.A	UGCSAn20	NME: Statistical Package for Social Science	To Understand how to start SPSS, define a variety of statistical variables, enter basic data into SPSS, and carry out a statistical analysis that can test hypotheses.	Pursue higher knowledge, qualify professionally, enhance entrepreneurial skills and contribute towards the needs of the society.	Become proficient and ensure job in the key areas of computer science like Web designing and development, Mobile applications, Network and communication technologies, undertaking government organizations, faculty for computer science and applications in educating institutions.	Be familiar with basic SPSS functions and its tools. These functions and tools will enable students to proficiently open and create SPSS data files.
B.C.A	UGCSBn20	NME: Web Designing Using Dream Weaver	To train the students in building quality websites.	Emulate positive social values and exercise leadership qualities and team work.	Become proficient and ensure job in the key areas of computer science like Web designing and	Create web pages using predesigned layouts

					development, Mobile applications, Network and communication technologies, undertaking government organizations, faculty for computer science and applications in educating institutions.	
B. Com	USCOB320	Advertising and Sales	To meet out the requirements of present business needs and opportunities	Excel as a socially committed individual having empathy for the needs of the society through value-based education	Develop in their professional career through lifelong learning and excel as the fellow associates in the field sales	Well versed in managing sales through advertising.
B. Com	USCOC420	Entrepreneurial Development	To select the best financial institutions for business as per the needs, and generated best innovative business ideas	Excel as a socially committed individual having empathy for the needs of the society through value-based education	Addressing the needs of the nation cater to the needs of the society so as to contribute for the development of the nation	To understand the role of Government in developing entrepreneurship
B.Sc. Biochemistry	UCBCA20	Bioorganic Chemistry	To provide a clear note on the bioorganic compounds.	Pursue higher knowledge, qualify professionally, enhance entrepreneurial skills and contribute towards the needs of the society.	Function effectively as a member or leader in a team and demonstrate professional ethics, Community living and Nation building initiatives	Classify the structure and functions of amino acids along with proteins.

B.Sc. Biochemistry	UCBCC20	Main Practical-I	To provide a wide practical knowledge on Qualitative and Quantitative Analysis.	Pursue higher knowledge, qualify professionally, enhance entrepreneurial skills and contribute towards the needs of the society.	Function effectively as a member or leader in a team and demonstrate professional ethics, Community living and Nation building initiatives	Identify the carbohydrate and amino acids qualitatively
B.Sc. Biochemistry	UCBCB20	Cell Biology	To provide a deep knowledge about cell – the basic unit of life.	Pursue higher knowledge, qualify professionally, enhance entrepreneurial skills and contribute towards the needs of the society.	Function effectively as a member or leader in a team and demonstrate professional ethics, Community living and Nation building initiatives	Develop knowledge about the functions of various subcellular organelles
B.Sc. Biochemistry	UCBCD20	Biochemical techniques	To study about the principles and applications of biochemical techniques.	Pursue higher knowledge, qualify professionally, enhance entrepreneurial skills and contribute towards the needs of the society.	Function effectively as a member or leader in a team and demonstrate professional ethics, Community living and Nation building initiatives	Explain how electrophoresis and centrifugation facilitates the separation of molecules
B.Sc. Biochemistry	UCBCE20	Physiology and Nutrition	To understand the homeostatic mechanism of each organ.	Pursue higher knowledge, qualify professionally, enhance entrepreneurial skills and contribute towards the needs of the society.	Function effectively as a member or leader in a team and demonstrate professional ethics, Community living and Nation building initiatives	Explain the central and peripheral nervous system organization

B.Sc. Biochemistry	UCBCF20	Main Practical-II	To inculcate practical skill in Biochemistry.	Pursue higher knowledge, qualify professionally, enhance entrepreneurial skills and contribute towards the needs of the society.	Function effectively as a member or leader in a team and demonstrate professional ethics, Community living and Nation building initiatives	Analyse, interpret and report the results of their biochemical experiments
B.Sc. Biochemistry	USBCBn20	Skill Based Elective: Health Care for Women	To provide awareness about common health problems of women and how to overcome certain diseases	Pursue higher knowledge, qualify professionally, enhance entrepreneurial skills and contribute towards the needs of the society.	Function effectively as a member or leader in a team and demonstrate professional ethics, Community living and Nation building initiatives	Describe the function of Estrogen and Progesterone hormone
B.Sc. Biochemistry	UCBCG20	Enzymes & Intermediary metabolism	To impart knowledge about the enzymes and the metabolism of biomolecules and its interrelationship.	Pursue higher knowledge, qualify professionally, enhance entrepreneurial skills and contribute towards the needs of the society.	Function effectively as a member or leader in a team and demonstrate professional ethics, Community living and Nation building initiatives	Discuss the kinetics of enzyme catalyzed reactions, enzyme immobilization and applications of enzymes and their future potential
B.Sc. Biochemistry	UCBCH20	Endocrinology	Endocrinology describes in detail the role of endocrine glands, their secretion and its regulatory effect on metabolic activities to maintain homeostasis.	Pursue higher knowledge, qualify professionally, enhance entrepreneurial skills and contribute towards the needs of the society.	Function effectively as a member or leader in a team and demonstrate professional ethics, Community living and Nation building initiatives	Analyze the clinical disorders of hormones

B.Sc. Biochemistry	UEBCA20	Elective IA: Immunology	To help the students to understand the components of Immune system	Pursue higher knowledge, qualify professionally, enhance entrepreneurial skills and contribute towards the needs of the society.	Function effectively as a member or leader in a team and demonstrate professional ethics, Community living and Nation building initiatives	Discuss the basic techniques of antigen and antibody interactions
B.Sc. Biochemistry	UEBCB20	Elective IB: Environmental Toxicology	To understand the basics in toxicological aspects that effects the environment.	Pursue higher knowledge, qualify professionally, enhance entrepreneurial skills and contribute towards the needs of the society.	Function effectively as a member or leader in a team and demonstrate professional ethics, Community living and Nation building initiatives	Use clinical and laboratory findings in the treatment of acute toxic exposures
B.Sc. Biochemistry	UCBCJ20	Main Practical-III	The course is aimed to enhance the practical skill of the student in handling and estimating the components present in the biological samples.	Pursue higher knowledge, qualify professionally, enhance entrepreneurial skills and contribute towards the needs of the society.	Function effectively as a member or leader in a team and demonstrate professional ethics, Community living and Nation building initiatives	Analyse the presence and absence of abnormalities in blood
B.Sc. Biochemistry	UCBCK20	Main Practical-IV	The course is aimed to enhance the practical skill of the student in handling and estimating the components present in the biological samples.	Pursue higher knowledge, qualify professionally, enhance entrepreneurial skills and contribute towards the needs of the society.	Function effectively as a member or leader in a team and demonstrate professional ethics, Community living and Nation building initiatives	Analyze the biological sample for the enzyme activity

B.Sc. Biochemistry	USBCCn20	Skill Based Elective: III: Entrepreneurial Biochemistry	To understand the concept of entrepreneurship	Pursue higher knowledge, qualify professionally, enhance entrepreneurial skills and contribute towards the needs of the society.	Function effectively as a member or leader in a team and demonstrate professional ethics, Community living and Nation building initiatives	Identify strategic marketing planning and mobilize resources for future growth, development and protection of their enterprise
B.Sc. Biochemistry	UCBCI20	Molecular Biology	To make a study on life and the information centers called genes.	Pursue higher knowledge, qualify professionally, enhance entrepreneurial skills and contribute towards the needs of the society.	Function effectively as a member or leader in a team and demonstrate professional ethics, Community living and Nation building initiatives	Demonstrate the nature of Genes
B.Sc. Biochemistry	UEBCC20	Elective IIA: Clinical Biochemistry	To understand the biochemical basis of various diseases and disorders	Pursue higher knowledge, qualify professionally, enhance entrepreneurial skills and contribute towards the needs of the society.	Function effectively as a member or leader in a team and demonstrate professional ethics, Community living and Nation building initiatives	Describe the types of jaundice and serum enzyme activities in diseases
B.Sc. Biochemistry	UEBCD20	Elective IIB: Pharmacology	To make detailed study of drugs, and their actions on living systems	Pursue higher knowledge, qualify professionally, enhance entrepreneurial skills and contribute towards the needs of the society.	Function effectively as a member or leader in a team and demonstrate professional ethics, Community living and Nation building initiatives	CO5:List out commonly used analgesic and anesthetic drug classes

B.Sc. Biochemistry	UEBCE20	Elective IIIA: Biotechnology	To explore the applications and future potential of Biotechnology	Pursue higher knowledge, qualify professionally, enhance entrepreneurial skills and contribute towards the needs of the society.	Function effectively as a member or leader in a team and demonstrate professional ethics, Community living and Nation building initiatives	Explain the principles of plant tissue and animal cell culture and summarize the methods used to produce transgenic plants and animals
B.Sc. Biochemistry	UEBCF20	Elective IIIB: Plant Biochemistry	To explore the applications of plant and their products	Pursue higher knowledge, qualify professionally, enhance entrepreneurial skills and contribute towards the needs of the society.	Function effectively as a member or leader in a team and demonstrate professional ethics, Community living and Nation building initiatives	Identify the antioxidant potential and role of secondary metabolites
B.Sc. Biochemistry	USBCDn20	Skill Based Elective: IV- Medical Laboratory Technology	To make detailed study of the organization and functions of a laboratory	Pursue higher knowledge, qualify professionally, enhance entrepreneurial skills and contribute towards the needs of the society.	Function effectively as a member or leader in a team and demonstrate professional ethics, Community living and Nation building initiatives	Discuss the various methods of blood collection and its preservation
B.Sc. Biochemistry	USBCAn20	Skill Based Elective: II - Nutritional Biochemistry	To make a note on nutrients and its role on metabolism.	Pursue higher knowledge, qualify professionally, enhance entrepreneurial skills and contribute towards the needs of the society.	Function effectively as a member or leader in a team and demonstrate professional ethics, Community living and Nation building initiatives	Discuss basic principles and practices of common food preservation methods

B.Sc. Biochemistry	UABCA20	Allied Biochemistry - I	To acquire knowledge on the structure and the function of biomolecules	Pursue higher knowledge, qualify professionally, enhance entrepreneurial skills and contribute towards the needs of the society.	Function effectively as a member or leader in a team and demonstrate professional ethics, Community living and Nation building initiatives	Outline the properties and structural organization of proteins
B.Sc. Biochemistry	UABCB20	Allied Biochemistry - II	To understand the basic of metabolic pathway	Pursue higher knowledge, qualify professionally, enhance entrepreneurial skills and contribute towards the needs of the society.	Function effectively as a member or leader in a team and demonstrate professional ethics, Community living and Nation building initiatives	Describe and identify the main characteristics of diagnosis, screening and prognosis of disease
B.Sc. Biochemistry	UABCC20	Allied Biochemistry Practical	To acquire knowledge on the structure and the function of biomolecules	Pursue higher knowledge, qualify professionally, enhance entrepreneurial skills and contribute towards the needs of the society.	Function effectively as a member or leader in a team and demonstrate professional ethics, Community living and Nation building initiatives	Estimate the amount of biomolecules
B.Sc. Biochemistry	UGBCAn20	NME: Disease and Treatment	To provide a basic knowledge about common diseases and its treatment.	Pursue higher knowledge, qualify professionally, enhance entrepreneurial skills and contribute towards the needs of the society.	Function effectively as a member or leader in a team and demonstrate professional ethics, Community living and Nation building initiatives	Understand about the pathophysiology of cardiovascular and neurological diseases

B.Sc. Biochemistry	UCBCBn20	NME: Therapeutic Agents	To impart knowledge on action of drugs in treating diseases.	Pursue higher knowledge, qualify professionally, enhance entrepreneurial skills and contribute towards the needs of the society.	Function effectively as a member or leader in a team and demonstrate professional ethics, Community living and Nation building initiatives	Assess the role of vaccines in preventing diseases
B.Sc. Chemistry	USCHC520	SBE – V: Small Scale Chemistry	This course enables students to acquire skills in the manufacture of various small-scale products.	Pursue higher knowledge, qualify professionally, enhance entrepreneurial skills and contribute towards the needs of the society.	Develop an interest in pursuing higher studies in Chemistry and related subjects which are relevant to employment and entrepreneurship.	Understand the laws, role and steps involved in starting small scale industries.
B.Sc. Chemistry	UGCHA520 /620	Food and Nutrition Chemistry	This course helps students to appreciate the nutritive values and evaluate the chemical changes and loss of nutrients during cooking and storage of fruits and vegetables.	Pursue higher knowledge, qualify professionally, enhance entrepreneurial skills and contribute towards the needs of the society.	Develop an interest in pursuing higher studies in Chemistry and related subjects which are relevant to employment and entrepreneurship.	Explain the sources, classification, functions, deficiency diseases and metabolism of carbohydrates. Appreciate the nutritive values and evaluate the chemical changes and loss of nutrients during cooking and storage of fruits and vegetables.
B.Sc. Computer Science	UCCSS20	Cloud Computing	Understand the concepts of cloud computing technologies.	Pursue higher knowledge, qualify professionally, enhance entrepreneurial skills and contribute towards the needs of the society.	Apply the recent technology in multidisciplinary domains and evaluate the methods to implement it, to create	Understand and familiar with the deployment models.

					high level design and implement robust software applications using latest technological skills.	
B.Sc. Mathematics	UEMAA20	Elective-I A: Programming in C	To introduce students to the concept of basic programming, thereby enhancing the logical thinking of the students with regard to programming. To train the students to apply the programming concepts of C to mathematical investigations and problem solving. To enhance the ability of students to work independently and do in-depth study of various notions of programming.	Attain knowledge and understand the principles and concepts in the respective discipline. Acquire and apply analytical, critical and creative thinking, and problem-solving skills. Effectively communicate general and discipline-specific information, ideas and opinions. Pursue higher knowledge, qualify professionally, enhance entrepreneurial skills and contribute towards the needs of the society.	Disciplinary knowledge Capability to demonstrate comprehensive knowledge of Mathematics and understand one or more disciplines which form a part of an undergraduate programme of study.	The learners will be able to Understand the basics of programming in C such as tokens, data types, operators etc.
B.Sc. Mathematics	UEMAB20	Elective Practical I: C	To introduce students to the concept of basic programming, thereby enhancing the logical thinking of the students with regard to programming. To train the students to apply the programming	Attain knowledge and understand the principles and concepts in the respective discipline. Acquire and apply analytical, critical and creative thinking, and problem-solving skills. Effectively communicate	Analytical thinking Ability to analyze the results and apply them in various problems appearing in different branches of mathematics. Problem	The learners will be able to Implement programs with branching and looping statements. Write programs that perform operations using derived data types and functions.

			<p>concepts of C to mathematical investigations and problem solving. To construct the ability of students to work independently and do in-depth study of various notions of programming.</p>	<p>general and discipline-specific information, ideas and opinions. Pursue higher knowledge, qualify professionally, enhance entrepreneurial skills and contribute towards the needs of the society.</p>	<p>solving Ability to provide new solutions using the domain knowledge of mathematics. Digital literacy Capability to understand and apply the programming concepts of C to mathematical investigations and problem solving.</p>	
B.Sc. Mathematics	UEMAF20	Elective - III: Object Oriented Programming Using C++	<p>To introduce students to the concept of object-oriented programming with C++, thereby enhancing the logical thinking of the students with regard to programming. To train the students to apply the programming concepts of C++ to mathematical investigations and problem solving. To construct the ability of students to work independently and do in-depth study of various notions of programming.</p>	<p>Attain knowledge and understand the principles and concepts in the respective discipline. Acquire and apply analytical, critical and creative thinking, and problem-solving skills. Effectively communicate general and discipline-specific information, ideas and opinions. Pursue higher knowledge, qualify professionally, enhance entrepreneurial skills and contribute towards the needs of the society.</p>	<p>Disciplinary knowledge Capability to demonstrate comprehensive knowledge of Mathematics and understand one or more disciplines which form a part of an undergraduate programme of study. Communication skills Ability to communicate various concepts of mathematics effectively using examples and their geometrical</p>	<p>The learners will be able to Understand the basics of programming in C++ such as tokens, data types, operators etc. Use the Decision making-branching and looping statements in C++ programming. Handle the concept of arrays and the concept of the user define functions. Express the uses of structures and pointers. Understand and apply the programming concepts of C++ to</p>

					<p>visualizations. Ability to use mathematics as a precise language of communication in other branches of human knowledge and communicate long standing unsolved problems in mathematics.</p> <p>Critical thinking Ability to employ critical thinking in understanding the concepts in every area of Mathematics.</p> <p>Analytical thinking Ability to analyze the results and apply them in various problems appearing in different branches of mathematics. Problem solving Ability to provide new solutions using the domain knowledge of mathematics.</p> <p>Digital literacy Capability to understand and apply the programming</p>	<p>problem solving.</p>
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					concepts of C++ to mathematical investigations and problem solving.	
B.Sc. Mathematics	UEMAG20	Elective Practical II : C++	To introduce students to the concept of basic programming, thereby enhancing the logical thinking of the students with regard to programming. To train the students to apply the programming concepts of C++ to mathematical investigations and problem solving. To enhance the ability of students to work independently and do in-depth study of various notions of programming.	Attain knowledge and understand the principles and concepts in the respective discipline. Acquire and apply analytical, critical and creative thinking, and problem-solving skills. Effectively communicate general and discipline-specific information, ideas and opinions. Pursue higher knowledge, qualify professionally, enhance entrepreneurial skills and contribute towards the needs of the society.	Disciplinary knowledge Capability to demonstrate comprehensive knowledge of Mathematics and understand one or more disciplines which form a part of an undergraduate programme of study.	The learners will be able to Implement programs with class and constructors. Write programs that perform operations using derived data types and functions.
B.Sc. Mathematics	USMABn20	SBE: R Programming Language	To introduce students to the concept of basic R programming, thereby enhancing the logical thinking of the students with regard to programming. To train the students to apply the programming concepts of R to	Attain knowledge and understand the principles and concepts in the respective discipline. Acquire and apply analytical, critical and creative thinking, and problem-solving skills. Effectively communicate general and discipline-	Capability to demonstrate comprehensive knowledge of Mathematics and understand one or more disciplines which form a part of an undergraduate programme of study.	The learners will be able to Familiarize the basics of programming in R such as vectors, arrays, data frames, etc.

			statistical investigations and problem solving	specific information, ideas and opinions. Pursue higher knowledge, qualify professionally, enhance entrepreneurial skills and contribute towards the needs of the society.	Ability to communicate various concepts of mathematics effectively using examples and their geometrical visualizations.	
B.Sc. Microbiology	USMBA20	Mushroom Technology	The course is designed to provide adequate hands on experience in handling and cultivation of edible mushrooms to start a small scale Mushroom unit	Pursue higher knowledge, qualify professionally, enhance entrepreneurial skills and contribute towards the needs of the society.	Attain higher knowledge by developing competency in the field of Microbiology assuring and enhancing entrepreneurial skills for the betterment of the society.	Formulate media used for cultivation of mushroom and select the appropriate methods for spawn production. Demonstrate mushroom cultivation technology and its preservation
B.Sc. Microbiology	USMBD20	Nutraceuticals and Functional foods	To course is designed to familiarize the learners on the basic nutraceutical constituents of different foods; its role in health benefits and to start small scale production of food products.	Pursue higher knowledge, qualify professionally, enhance entrepreneurial skills and contribute towards the needs of the society.	Attain higher knowledge by developing competency in the field of Microbiology assuring and enhancing entrepreneurial skills for the betterment of the society.	Discuss the Nutraceuticals constituents present in various food products and the role of probiotics and prebiotics as nutraceuticals. Analyze food as remedies for the common disorders. Outline genetically modified plants which are commercially available and their

						applications. Communicate the pharmaceutical applications of genetically engineered plants.
B.Sc. Microbiology	USMBE20	Cosmetology	To provide adequate knowledge on cosmeceuticals, personal care and hygiene products and familiarize with the skills in formulation science required to scientifically design and develop products.	Pursue higher knowledge, qualify professionally, enhance entrepreneurial skills and contribute towards the needs of the society.	Attain higher knowledge by developing competency in the field of Microbiology assuring and enhancing entrepreneurial skills for the betterment of the society.	Give information about significance of cosmetics and adulteration of natural products. Formulate face packs, hair oils for different types of skin and hair. Analyze the structure, function and types of skin. Outline the biology of hair, hair growth cycle and scalp hygiene and utilize the natural herbs for skin, hair and oral care preparations. Communicate the cosmeceutical applications of micro and macroalgae.
B.Sc. Microbiology	UEMBB20	Entrepreneurial Microbiology	The course facilitates the learners understanding on the concepts of entrepreneurship such as Planning, decision	Pursue higher knowledge, qualify professionally, enhance entrepreneurial skills and contribute towards the needs of the society.	Attain higher knowledge by developing competency in the field of Microbiology assuring and	Explain the historical development of industrial Microbiology and outline on the importance of

			making, leadership, organizations and authority		enhancing entrepreneurial skills for the betterment of the society.	entrepreneur development and risk assessment. Analyze the microbial cells as fermented products. Demonstrate the procedures involved in mushroom cultivation and its storage method. Utilize various microorganisms as biofertilizers. Design and use patent in the development of entrepreneurship.
B.SC. Physics	UCPHA20	Properties of Matter	Course is designed to understand the different properties of matter namely elasticity, mass, viscosity and surface tension.	Attain knowledge and understand the principles and concepts in the respective discipline	Analyze physical problems and develop correct solutions using natural laws.	Learn the basics of properties of matter, how Young's modulus and rigidity modulus are defines and how they are evaluated for different shapes of practical relevance.
B.SC. Physics	UCPHE20	Optics	To explain the students about important application of interference, diffraction and polarization.	Pursue higher knowledge, qualify professionally, enhance entrepreneurial skills and contribute towards the needs of the society.	Students will develop the proficiency in the skill of data using a variety of laboratory instruments	Students understand the dual nature of light through the different branches of optics like Geometrical optics and Physical optics.

B.Sc. Physics	UEPHA20	Digital Electronics and Communications	To analyze logic processes and implement logical operations using logic circuits.	Acquire and apply analytical, critical and creative thinking, and problem-solving skills	Prepare the student to successfully compete for employment and to offer a wide range of applications.	Learn the fundamental operation of logic circuit, Express the basic design and operation of arithmetic circuits.
B.Sc. Visual Communication	UCVEB20	Practical I – Drawing and Design	To develop basic drawing and modeling skills in students and to enable them to expand their visual expression skills.	Acquire and apply analytical, critical and creative thinking, and problem-solving skills	To become competent enough to undertake the professional job as per the demands and requirements of the media and Entertainment Industry.	Practicing Colors Using Watercolor and Poster colors
B.Sc. Visual Communication	UCVCC20	Basic Photography	To inculcate in students an in-depth knowledge on the theoretical aspects of photography including concepts and techniques used in photography.	Pursue higher knowledge, qualify professionally, enhance entrepreneurial skills and contribute towards the needs of the society.	To become competent enough to undertake the professional job as per the demands and requirements of the media and Entertainment Industry.	Acquiring an in-depth knowledge about the characteristics of light, color and various lighting setup.
B.Sc. Visual Communication	UCVCD20	Practical II – Professional Photography	To enable students to try first-hand, the basic techniques of photography and to develop the skills for a good photographer	Attain knowledge and understand the principles and concepts in the respective discipline.	To become competent enough to undertake the professional job as per the demands and requirements of the media and Entertainment Industry.	Acquiring knowledge in lighting and exposure techniques

B.Sc. Visual Communication	USCMA120 / USCMA220	SBE- Basic Drawing	To develop basic drawing and modeling skills in students and to enable them to expand their visual expression skills. Course Outcomes	Acquire and apply analytical, critical and creative thinking, and problem-solving skills	To become competent enough to undertake the professional job as per the demands and requirements of the media and Entertainment Industry.	Practicing Colors Using Watercolor and Poster colors
B.Sc. Visual Communication	UCVCF20	Practical III - Computer Graphics	To equip the students to design basic layout designs in print media using Adobe Photoshop software.	Pursue higher knowledge, qualify professionally, enhance entrepreneurial skills and contribute towards the needs of the society.	To get equipped with ICT competencies including Digital literacy.	Creating print advertisements like brochures, pamphlet, banners and magazine with the usage of proper techniques.
B.Sc. Visual Communication	UCVCH20	Practical IV- Post Production Editing	To teach students the art of editing videos through Adobe Premier CC software and to complete basic exercises in editing.	Pursue higher knowledge, qualify professionally, enhance entrepreneurial skills and contribute towards the needs of the society.	To make women professionals in media and attain professional portfolios to become entrepreneurs to increase employability.	Create a short film or documentary using editing techniques.
B.Sc. Visual Communication	UAJLA20	Allied-IV: Journalism	To introduce the field of Visual Nature of journalism in various media and to develop journalistic skills in students	Emulate positive social values and exercise leadership qualities and team work.	To become ethically committed media professionals and entrepreneur by adhering to human values, Indian, and the Global culture.	Evaluating the role of journalist in the stream of electronic media.
B.Sc. Visual Communication	UCVCK20	Digital Public Relations	To initiate students to the field of Public Relations by giving them a background, trends and techniques	Emulate positive social values and exercise leadership qualities and team work.	To become competent enough to undertake the professional job as per the demands and requirements of the	Evaluating the Process of PR and acquiring the profound knowledge in Public relation writing.

			in PR		media and Entertainment Industry.	
B.Sc. Visual Communication	UCVCL20	Practical V –2D Animation	To enable students to learn the art of 2-D animation using Adobe Animate CC software	Pursue higher knowledge, qualify professionally, enhance entrepreneurial skills and contribute towards the needs of the society.	To get equipped with ICT competencies including Digital literacy.	Acquiring the knowledge in basic Animation Techniques.
B.Sc. Visual Communication	UCVCM20	Practical VI - Internship	To train students in the field of television production with first-hand experience working in a television news organization for a month as an internee.	Pursue higher knowledge, qualify professionally, enhance entrepreneurial skills and contribute towards the needs of the society.	To become ethically committed media professionals and entrepreneur by adhering to human values, Indian, and the Global culture.	Acquiring an in-depth knowledge in the Respective Media Industry.
B.Sc. Visual Communication	UCVCN20	Project -1 Documentary Production	To train students in short-film making or documentary making by putting into practice the techniques learned in television production and script writing through team work.	Emulate positive social values and exercise leadership qualities and team work.	To make women professionals in media and attain professional portfolios to become entrepreneurs to increase employability.	Presenting the Documentation with Master Copy.
B.Sc. Visual Communication	USCMD520	Skill-Based Elective - E-Content - Production	To enable students, know about the production process and techniques of e-content development, implementing effective e-content material for	Effectively communicate general and discipline-specific information, ideas and opinions.	To get equipped with ICT competencies including Digital literacy.	Executing and publishing the E-contents for formal education.

			education field.			
B.Sc. Visual Communication	UCVCQ20	Practical VII: Web Designing	To teach students the art of designing basic websites using Adobe Dreamweaver software	Pursue higher knowledge, qualify professionally, enhance entrepreneurial skills and contribute towards the needs of the society.	To get equipped with ICT competencies including Digital literacy.	Creating the Webpage and Making Links.
B.Sc. Visual Communication	UEVCA20	Elective II A: E-Content Development	To enable students, know about the production process and techniques of e-content development, implementing effective e-content material for education field.	Effectively communicate general and discipline-specific information, ideas and opinions.	To get equipped with ICT competencies including Digital literacy.	Evaluating the E-learning platforms and technologies
B.Sc. Visual Communication	UCVCR20	Project – 2 - Short Film Production	To train students in short-film making or documentary making by putting into practice the techniques learned in television production and script writing	Emulate positive social values and exercise leadership qualities and team work.	To make women professionals in media and attain professional portfolios to become entrepreneurs to increase employability.	Presenting the Documentation with Master Copy.
B.Sc. Zoology	UEZOA20	Elective IA Economic Zoology	Enable the students to become entrepreneurs	Pursue higher knowledge, qualify professionally, enhance entrepreneurial skills and contribute towards the needs of the society.	Utilize the opportunities to conceptualize, nurture and accomplish the dream to be entrepreneur/leaders.	Demonstrate culture techniques of apiculture, sericulture, lac culture and vermiculture.

B.Sc. Zoology	UEZOB20	Elective IB Vermiculture	Course designed to meet the requirements to start a vermicompost unit	Pursue higher knowledge, qualify professionally, enhance entrepreneurial skills and contribute towards the needs of the society.	Utilize the opportunities to conceptualize, nurture and accomplish the dream to be entrepreneur/leaders.	Identify various groups of earthworms and impact of earthworm on soil. Describe large- and small-scale composting methods. Explain the factors affecting vermicomposting and preparation of vermined. Discuss the use of vermicompost and Verm wash in agriculture and horticulture. Elaborate the role of earthworm in agriculture, fishing, medicine and pollution and promotion of vermiculture.
B.Sc. Zoology	USZOD420	SBE- Poultry Keeping	Course designed to meet the requirements to start a Poultry Farm	Pursue higher knowledge, qualify professionally, enhance entrepreneurial skills and contribute towards the needs of the society.	Utilize the opportunities to conceptualize, nurture and accomplish the dream to be entrepreneur/leaders.	Acquire Knowledge on different types of breeds of Fowls Describe the essentials and maintenance of a good house Compare the different types of rearing methods Discuss the feeding

						requirements and its management Explain the nutritive value and products of poultry. Identify Poultry diseases and vaccination Schedule.
B.Sc. Zoology	UEZOA20	SBE-Sericulture	Course designed to meet the requirements to start a small-scale sericulture and Mori culture unit	Utilize the opportunities to conceptualize, nurture and accomplish the dream to be entrepreneur/leaders.	Utilize the opportunities to conceptualize, nurture and accomplish the dream to be entrepreneur/leaders.	Enlist different variety of silkworms and their economic status Explain about mulberry cultivation Expand knowledge on utilizing silkworm rearing appliances. Elucidate an indulgent of silkworm mounting, silkworm rearing, and silkworm reeling operations. Indicate and identify diseases in silkworms and recognize their enemies to take necessary control measures.
B.Sc. Psychology	USPYE522	Communication Skills	To equip the students with necessary competence in communication skills for today's professional world.	Effectively communicate general and discipline specific information ideas and opinions.	Use effective and fluent written, oral and visual communication to convey ideas and concept.	Understand basic components of communication and skills required for communication and different modes of communication

						efficiently.
B.Sc. Psychology	UEPYA22	Guidance and counselling psychology	To give students a comprehensive overview of counselling with theoretical and practical components.	Acquire and apply analytical, critical and creative thinking, and problem-solving skills	Ability to work independently and do in-depth study of various concepts of Psychology. Learn independently through self-reflection and evaluation of one's strengths and weaknesses	Describe different areas in counselling and summarize the nature, goals and fields of counselling.
B.Com (B&I)	UEBIA20	Elective I A: Marketing in Banking and Insurance	Identifying various marketing strategies towards banking & insurance sector	Emulate positive social values and exercise leadership qualities and team work.	Engaging in Lifelong Learning, apply ethical principles and excel as a socially committed individual having empathy for the needs of the society.	Understands the Concepts of service marketing.
B.Com (B&I)	UEBIB20	Elective I B: Entrepreneurship Management	Generate business ideas and to learn the different phases of entrepreneurial development programme at global Level	Pursue higher knowledge, qualify professionally, enhance entrepreneurial skills and contribute towards the needs of the society	To encourage teamwork and skills for effective Collaboration towards the changing needs of the environment	Establish as a woman entrepreneur and Contribute to the society.
B.B.A (Hospital Administration)	USHAF20	Skill Based Elective VI: Social Entrepreneurship	To identify the opportunities of social entrepreneurship.	Pursue higher knowledge, qualify professionally, enhance entrepreneurial skills and contribute towards the needs of the society.	Contribute to the sustainable development to the society through professional and entrepreneurial skills.	Understand the theory of social entrepreneurship, and distinguish social entrepreneurship from other entrepreneurial and social work.

Allied Botany	UBBTA20/ UABTA20	Optional Allied Botany-I/ Allied Botany -I	It's a supportive course for the students to excel in life sciences and an allied course for other major students. They are also given the knowledge to become agripreneurs. Students are enabled to apply for applied sciences.	Pursue higher knowledge, qualify professionally, enhance entrepreneurial skills and contribute towards the needs of the society.		Identify the pathogens and the applications of Plants in agriculture.
Allied Botany	UBBTB20 /UABTB20	Optional Allied Botany-II/ Allied Botany - II	It's a supportive course for the students to excel in life sciences and an allied course for other major students. They are also given knowledge to become agripreneurs. Students are enabled to apply for applied sciences.	Pursue higher knowledge, qualify professionally, enhance entrepreneurial skills and contribute towards the needs of the society.		Integrate the knowledge of Horticulture in growing Plants.
Allied Botany	USBTA120/ USBTA220	Herbal therapy and Cosmetology	Course is designed for Women students for learning health care therapy for themselves and others in future and can practice and produce herbal health care cosmetic products ecofriendly.	Pursue higher knowledge, qualify professionally, enhance entrepreneurial skills and contribute towards the needs of the society.		Acquire knowledge in the basics of medicinal plants.

Allied Botany	USBTB121/ USBTB221	Horticulture	Course is designed for students to learn garden technology and enhance entrepreneur all skill.	Pursue higher knowledge, qualify professionally, enhance entrepreneurial skills and contribute towards the needs of the society.		Apply the principles of the cultivation of economically important horticultural crops Analyze the different methods of plant propagation in horticultural crops. Evaluate the importance of floriculture in indoor gardening. Plan and execute the different types of garden layouts and design. Develop the skill for vegetable and fruit processing, its preservation and preparation of value-added products.
Allied Botany	UGBTA520 / UGBTA620	Edible Mushroom Cultivation	Course is designed for students to learn mushroom technology and enhance entrepreneurial skills.	Pursue higher knowledge, qualify professionally, enhance entrepreneurial skills and contribute towards the needs of the society.		Plan the cultivation of mushroom for self - employment activity Identify the medicinal and nutritional value of mushroom
M.A. English	PIEND20	Independent Elective II B: Creative writing	The course aims at enriching the creative and critical faulty of students so as to turn them into writers/ free lancers	Attain knowledge and understand the principles and concepts in the respective discipline.	Innovate and apply the skills of oral, written communication and analytical skills in the prospective areas of teaching, training, writing, editing,	Create poems or literary non-fictional pieces those are original and engaging

					translating, publishing, advertising etc.	
M.A. English	PIENF20	Independent Elective III B: Content writing	In a digital era that constantly demands for content writers for, students are prepared for Industry demands and entrepreneurship	Acquire and apply analytical, critical and creative thinking, and problem-solving skills	Innovate and apply the skills of oral, written communication and analytical skills in the prospective areas of teaching, training, writing, editing, translating, publishing, advertising etc.	Engage in Freelance writing and entrepreneurship
MSW	PSCDD20	Entrepreneurship Development	Course designed to develop entrepreneurial skills to craft innovative responses to social problems	Persist in life-long learning for personal and societal progress.	To utilize the opportunity and of professionalism in the development process	
MSW	PISWB20	Women and Development	To develop an understanding of the perspective of Women and Development in Indian Society.	Assimilate and apply principles and concept towards skill development and Employability	To utilize the opportunity and of professionalism in the development process	
MBA	PEHRC20	Industrial Relations	To acquire knowledge on the contextual and constitutional framework of Industrial relations.	Integrate issues of social relevance in the field of study.	Students gain the ability to synthesize knowledge with skills in the areas of Business and Management and can provide innovative and entrepreneurial solutions to job-related problems.	Understand the concept, formation, types of Trade Union in India and its Functions

MBA	PESSA20	Cloud Computing	To enable the evolution and role of Cloud Computing in business integration.	Persist in life-long learning for personal and societal progress.	Students gain the ability to synthesize knowledge with skills in the areas of Business and Management and can provide innovative and entrepreneurial solutions to job-related problems.	Understand how Cloud is evolved and will come out with good conceptual knowledge in Cloud Computing
MBA	PESSB20	Digital Business and E-Commerce	To gain domain knowledge in all aspects of Digital and E-Commerce environment.	Assimilate and apply principles and concepts towards skill development and employability.	Students can objectively research on business and management problems by collecting, analysing, and interpreting the data and professionally recommend feasible solution/s.	Analyze various technologies used to develop digital business environment
MBA	PESSC20	Decision Support	To gain domain knowledge in all aspects of Decision Support system and Business Intelligence.	Apply critical and scientific approaches to address problems and find solutions.	Students can objectively research on business and management problems by collecting, analysing, and interpreting the data and professionally recommend feasible solution/s.	Enable the student to understand about decision support systems

MBA	PEHCA20	Hospital Design and Operation Management	To recognize the importance and need for planning of hospital services and the factors involved	Develop research skills through multi/inter/trans-disciplinary perspectives	Students develop self-learning skills, and remain updated on contemporary management practices and can leverage their learning to provide solutions to business problems.	Understand and infer the importance of hospital planning and identify the factors influencing outcomes To identify, understand and differentiate the various steps involved in hospital planning
MBA	PEHCB20	Hospital Materials and Equipment Management	To understand the structure and overall functioning of the materials management	Apply critical and scientific approaches to address problems and find solutions.	Students develop self-learning skills, and remain updated on contemporary management practices and can leverage their learning to provide solutions to business problems.	Understand and interpret the role of materials management in the hospital. To understand, recognize and interrelate the components of purchase system in materials management
MBA	PEHCC20	Hospital Quality Management	To understand the structure and overall functioning of various healthcare systems	Integrate issues of social relevance in the field of study.	Students develop self-learning skills, and remain updated on contemporary management practices and can leverage their learning to provide solutions to business problems.	Understand and distinguish the role of management and healthcare indicators in the hospital
MBA	PELMA20	Logistics Management	The course provides the analytical framework for understanding the basic concepts and evolution of logistics.	Attain an in-depth knowledge in the respective domains augmented through self-learning.	The students can function effectively as an individual and in a group with the capacity to be a team leader, as an	Analyze how logistical decisions (e.g., facilities, inventory, and transportation) impact the performance of the firm as well as

					entrepreneur, and administrator.	the entire supply chain.
MBA	PELMB20	Export and Import Management	To impart the knowledge on the key functions in export and import process and procedures.	Assimilate and apply principles and concepts towards skill development and employability.	Students will understand the professional, legal, ethical, and environmental responsibilities and will be committed towards them.	Remember the basics of global trade and import and export policies
MBA	PELMC20	Green Supply Chain and Logistics Management	To provide foundational knowledge associated with the green supply chain.	Persist in life-long learning for personal and societal progress.	Students can objectively research on business and management problems by collecting, analysing, and interpreting the data and professionally recommend feasible solution/s.	Remember the basics of Green Supply Chain Management.
M.Com	PCCOL20	Human Resource Management	To provide knowledge to the students regarding the management of Human Resources in organizations	Attain an in-depth knowledge in the respective domains augmented through self-learning.	Integrate cognitive and analytical skills to manage financial aspects of Business and Banks.	Imbibe the knowledge on human resources management and its functions
M.Com	PICOD20	Entrepreneurial Development	To introduce and inculcate the knowledge of Entrepreneurship among the students so that they can be self-employed and become	Assimilate and apply principles and concepts towards skill development and employability.	Integrate cognitive and analytical skills to manage financial aspects of Business and Banks.	To develop entrepreneurial skills and start up a new business

			successful entrepreneurs			
M.Com	PECOF20	Principles of Event Management	To provide students with a conceptual knowledge of Event Management, Event Services, Conducting Events and Managing Public Relations	Persist in life-long learning for personal and societal progress.	Integrate cognitive and analytical skills to manage financial aspects of Business and Banks	Become aware of the basics of Event Management and duties of an Event Manager
M.Com	PECOB20	Customer Relationship Management	The objective of the course is to enable the students to get familiarized with the existing Company Law and Secretarial Procedure	Assimilate and apply principles and concepts towards skill development and employability.	Integrate cognitive and analytical skills to manage financial aspects of Business and Banks	Gain knowledge of customer relationship and its management
M.Sc. Biochemistry	PCBCA20	Biomolecules	To understand the salient features of biomolecules in the organization of life.	Assimilate and apply principles and concepts towards skill development and employability	Develop techniques needed for the employability.	Gain knowledge on the structure, different forms and significance of lipids in the system
M.Sc. Biochemistry	PCBCB20	Human Physiology and Nutrition	To study about the Physiological system of human body and Nutrients with their deficiencies.	Assimilate and apply principles and concepts towards skill development and employability	Develop techniques needed for the employability.	Assess the activities of organs for maximum efficiency
M.Sc. Biochemistry	PCBCC20	Cell Biology	To understand the Cell, Cell organelles structure, function and metabolism	Assimilate and apply principles and concepts towards skill development and employability	Develop techniques needed for the employability.	Assess the knowledge on techniques adopted for the identification of cellular components and cancerous cell

M.Sc. Biochemistry	PCBCG20	Practical I: Main Practical-I	To help students to expertise in the Biomolecules, Cell Dynamics and biochemical techniques.	Assimilate and apply principles and concepts towards skill development and employability	Develop techniques needed for the employability.	Explain the isolation of biomolecules from biological samples
M.Sc. Biochemistry	PCBCH20	Practical II: Main Practical-II	To learn about the analytical techniques and enzymology experiments.	Assimilate and apply principles and concepts towards skill development and employability	Develop techniques needed for the employability.	Identify and purify biomolecules in a mixture by chromatographic technique
M.Sc. Biochemistry	PEBCA20	Elective IA: Biophysical Chemistry	To make the students to understand the concepts of bioenergetics and techniques.	Assimilate and apply principles and concepts towards skill development and employability	Develop techniques needed for the employability.	Describe the spectroscopic techniques – NMR, UV and MS
M.Sc. Biochemistry	PEBCB20	Elective IB: Pharmaceutical Biochemistry	To make the students aware of uses and abuse of drugs.	Assimilate and apply principles and concepts towards skill development and employability	Develop techniques needed for the employability.	Use the medicinal plants in drugs as a curative
M.Sc. Biochemistry	PCBCD20	Analytical Biochemistry	To understand the principles and applications of analytical techniques.	Assimilate and apply principles and concepts towards skill development and employability	Develop techniques needed for the employability.	Categorize, evaluate and implement a suitable technique for a given analytical problem
M.Sc. Biochemistry	PCBCE20	Enzymology	To learn the methodology involved in assessing the enzyme activity and mechanism of enzyme action.	Assimilate and apply principles and concepts towards skill development and employability	Develop techniques needed for the employability.	Explain various industrial and clinical applications of enzymes as a catalyst in industries and also as a therapeutic aid

M.Sc. Biochemistry	PCBCF20	Intermediary Metabolism	To make the students to understand the reactions catalyzed by different enzymes and their metabolic pathways.	Assimilate and apply principles and concepts towards skill development and employability	Develop techniques needed for the employability.	Translate the reactions catalyzed by different Enzymes in metabolic pathway
M.Sc. Biochemistry	PEBCC20	Elective IIA: Ecology, Evolution and Developmental Biology	The course enables the students to understand and analyze the role of ecological and evolutionary modifications in the development of organisms and their survival.	Assimilate and apply principles and concepts towards skill development and employability	Develop techniques needed for the employability.	Describe the structures and the development of the embryo at different stages
M.Sc. Biochemistry	PEBCD20	Elective II B: Toxicology	The course gives a detailed understanding and identification of toxic substances, dose-response, tests conducted and its impact on cellular activities.	Assimilate and apply principles and concepts towards skill development and employability	Develop techniques needed for the employability.	Assess various methods of toxicity testing
M.Sc. Biochemistry	PCBCI20	Advanced Endocrinology	The course describes in detail about the role of endocrine glands, their secretion, its metabolic effect on target cells involving various signaling pathways and signal chain proteins.	Assimilate and apply principles and concepts towards skill development and employability	Develop techniques needed for the employability.	Examine the symptoms of the patients and relate it to hormones

M.Sc. Biochemistry	PCBCJ20	Advanced Immunology	To help the students to understand the components of immune system and it's functioning.	Assimilate and apply principles and concepts towards skill development and employability	Develop techniques needed for the employability.	Identify various mechanisms that regulate immune response
M.Sc. Biochemistry	PCBCK20	Advanced Biotechnology	To learn how to apply the knowledge of genetic engineering in problem solving and in practice.	Assimilate and apply principles and concepts towards skill development and employability	Develop techniques needed for the employability.	Make use of the various steps in the development of a biotechnology derived products
M.Sc. Biochemistry	PCBCN20	Practical II: Main Practical III	The course is aimed to enable the student interpret hormonal imbalance and clinical conditions and also to provide in-depth practical knowledge and skill in performing immune-techniques and cell culture techniques.	Assimilate and apply principles and concepts towards skill development and employability	Develop techniques needed for the employability.	Apply tissue culture technique and fermentation process for various applications
M.Sc. Biochemistry	PCBCO20	Practical II: Main Practical - IV	To help students to expertise in the molecular biology and clinical Biochemistry techniques.	Assimilate and apply principles and concepts towards skill development and employability	Develop techniques needed for the employability.	Apply the molecular tools and techniques for extracting and separating DNA
M.Sc. Biochemistry	PEBCE20	Elective III A: Microbiology	To understand the importance of applications of microorganisms.	Assimilate and apply principles and concepts towards skill development and employability	Develop techniques needed for the employability.	Apply the microbial culture technique

M.Sc. Biochemistry	PEBCF20	Elective III B: Research Methodology	To addresses the issues inherent in selecting a research problem and discuss the techniques and tools to be employed in completing a research project	Assimilate and apply principles and concepts towards skill development and employability	Develop techniques needed for the employability.	Develop the understanding on database management system
M.Sc. Biochemistry	PCBCL20	Molecular Biology	The course will enable the student to learn the molecular events occurring in gene and its application in field of biomedical and genetic research.	Assimilate and apply principles and concepts towards skill development and employability	Develop techniques needed for the employability.	Demonstrate the features of Genetic code and mechanism of Translation
M.Sc. Biochemistry	PCBCM20	Advanced Clinical Biochemistry	To gain concepts of assessing the human physiology using biological fluid.	Assimilate and apply principles and concepts towards skill development and employability	Develop techniques needed for the employability.	Discuss the role of diagnostic enzymes
M.Sc. Biochemistry	PEBCG20	Elective IVA: Plant Biochemistry	To help the students to understand the plant metabolites and their application in the field of medicine.	Assimilate and apply principles and concepts towards skill development and employability	Develop techniques needed for the employability.	Perform the calculations to predict expected plants by experiments
M.Sc. Biochemistry	PEBCH20	Elective IV B: Herbal Therapy	To help students to understand the concepts in pharmacognosy and the role of medicinal plants.	Assimilate and apply principles and concepts towards skill development and employability	Develop techniques needed for the employability.	Predict the Herbal medicines for Human ailments

M.Sc. Biochemistry	PIBCA20	IEC: Organic Farming	To help students to understand the concepts and importance of organic farming and use it as a source of income generation	Assimilate and apply principles and concepts towards skill development and employability	Develop techniques needed for the employability.	Relate the importance of plant protection
M.Sc. Biochemistry	PIBCB20	IEC: Food Preservation	To enable students to understand the concepts of food preservation and methods involved	Assimilate and apply principles and concepts towards skill development and employability	Develop techniques needed for the employability.	Use the methods for preserving non-vegetarian foods/ meat products
M.Sc. Biochemistry	PIBCC20	IEC: Horticulture	To emphasis on the significance and concepts of horticulture and the techniques involved.	Assimilate and apply principles and concepts towards skill development and employability	Develop techniques needed for the employability.	Apply the concept of hybrid to enhance yield
M.Sc. Biochemistry	PIBCD20	IEC: Cancer Biology	To help students to understand the biology, diagnosis and treatment involved in cancer.	Assimilate and apply principles and concepts towards skill development and employability	Develop techniques needed for the employability.	Use inductive and deductive reasoning to evaluate the biological mechanisms that lead to the induction of cancer
M.Sc. Biochemistry	PIBCE20	IEC: Nanobiotechnology	The course aims to provide an interdisciplinary knowledge on Nano materials and their applications in biosciences.	Assimilate and apply principles and concepts towards skill development and employability	Develop techniques needed for the employability.	Discuss the Nanoparticle drug base delivery systems

M.Sc. Biochemistry	PIBCF20	IEC: Stem cell Technology	The course gives in depth knowledge on stem cell biology, regulation of stem cell differentiation, tools to study and its utilization in treating various disorders	Assimilate and apply principles and concepts towards skill development and employability	Develop techniques needed for the employability.	Identify the importance of various stem cells in therapeutic applications
M.Sc. Biochemistry	PIBCG20	IEC: Psychology	The course is aimed to enhance the psychological skills for the students to acquire factual knowledge and ability to conceptualize and apply in their life.	Assimilate and apply principles and concepts towards skill development and employability	Develop techniques needed for the employability.	Recognize the importance of Learning and Motivation.
M.Sc. Biochemistry	PIBCH20	IEC: Entrepreneurial Biochemistry	The course provides detailed knowledge on ideas, opportunities and components necessary for bio-entrepreneurship.	Assimilate and apply principles and concepts towards skill development and employability	Develop techniques needed for the employability.	Generate bio-entrepreneurship and describe its components and forms.
M.Sc. Chemistry	PICHB20	Quality Control and Chemical Analysis	Apply the standards and specifications involved in quality control.	Apply critical and scientific approaches to address problems and find solutions. Integrate issues of social relevance in the field of study.	Attain an in-depth knowledge on advanced concepts in various branches of chemistry augmented through self-learning, persist in life-long learning for personal and societal progress.	Define quality control, quality assurance and describe the necessity of TQM.

M.Sc. Chemistry	PECHH20	Organic Farming and Solid Waste Management	This course enables the students to practice organic farming and prepare organic manure commercially.	Attain an in-depth knowledge in the respective domains augmented through self-learning. Assimilate and apply principles and concepts towards skill development and employability. Integrate issues of social relevance in the field of study. Persist in life-long learning for personal and societal progress.	Attain an in-depth knowledge on advanced concepts in various branches of chemistry augmented through self-learning, persist in life-long learning for personal and societal progress. Communicate effectively through report writing, documentation and effective presentations and integrate the knowledge in chemistry for sustainable environment.	Explain the vision and importance of organic farming movements, apply vermicomposting process and prepare bio-fertilizers
M.Sc. Chemistry	PICHJ20	Leather Chemistry	Develop indigenous and adaptable technologies related to leather for small scale production and to develop entrepreneurial skills, towards betterment of society	Apply critical and scientific approaches to address problems and find solutions. Integrate issues of social relevance in the field of study.	Attain an in-depth knowledge on advanced concepts in various branches of chemistry augmented through self-learning, persist in life-long learning for personal and societal progress.	Outline the tanning processes in leather industry.
M.Sc. Computer Science	PCCSD20	Practical I: Java Programming Lab	Create a full set of UI widgets and other components, including windows, menus, buttons, Checkboxes,	Assimilate and apply principles and concepts towards skill development & employability	To apply fundamental knowledge of computing and science relevant to the discipline	Design and develop GUI applications using Abstract Windowing Toolkit (AWT), Swing and Event Handling.

			text fields, scrollbars and scrolling lists, using Abstract Windowing Toolkit (AWT) & Swings.			
M.Sc. Computer Science	PCCSE20	Practical II: .Net Programming Lab	To learn the technologies of the .NET framework.	Assimilate and apply principles and concepts towards skill development & employability	To apply fundamental knowledge of computing and science relevant to the discipline	Create user interactive web pages using ASP.NET.
M.Sc. Computer Science	PCCSJ20	Practical III: Machine Learning	To work on important concepts of Machine Learning.	Assimilate and apply principles and concepts towards skill development & employability	To apply fundamental knowledge of computing and science relevant to the discipline	Be capable of confidently applying common Machine Learning algorithms in practice and implementing their own.
M.Sc. Computer Science	PCCSK20	Practical IV: Open-Source Programming Lab	Demonstrate different open-source technology like Linux, PHP & MySQL with different packages	Assimilate and apply principles and concepts towards skill development & employability	To apply fundamental knowledge of computing and science relevant to the discipline	Explore different open-source technology like Linux, PHP & MySQL with different packages.
M.Sc. Computer Science	PCCSO20	Practical V: Web Services Lab	Understand the basic concepts of web services	Assimilate and apply principles and concepts towards skill development & employability	To apply fundamental knowledge of computing and science relevant to the discipline	Understand, analyze and evaluate a system using web services.
M.Sc. Electronic Media	PCEMD20	Practical I – Video Production	To give a hands-on experience to students in the handling of video-cameras and practice the techniques of Video Production.	Assimilate and apply principles and concepts towards skill development And employability.	To Assimilate and apply Video and Audio editing techniques, Multimedia, and Web Designing Projects	Acquiring and applying knowledge in shots, angles and camera movements.

					towards skill development and employability.	
M.Sc. Electronic Media	PCEME20	Practical II - Writing for Broadcast Media	To train the students in the basics of writing for television news; developing a clear, concise and conversational writing style. This is coupled with emphasis on accuracy, good grammar and strong leads.	Integrate issues of social relevance in the field of study.	To become ethically committed media professionals and entrepreneurs by adhering to Human values, the Indian and the Global cultures.	Explain the basic writing skills for Broadcast Media.
M.Sc. Electronic Media	PEEMA20	Elective I A – Script writing and Direction	To learn in-depth, the writing techniques and basics of film direction	Assimilate and apply principles and concepts towards skill development And employability.	To Integrate the issues of social and Ethical relevance in the field of Documentary and Short film Production.	Acquiring in depth knowledge about the production stage and its related activities.
M.Sc. Electronic Media	PCEMF20	Advanced Television Production	To prepare students for professional challenges of today and tomorrow and to expose them to real world production scenario.	Attain an in-depth knowledge in the respective domains augmented Through self-learning.	To obtain wide Knowledge in the area of Electronic Media Production and demonstrate Clear and coherent communication skills.	Acquiring the knowledge on Production management and production elements.
M.Sc. Electronic Media	PCEMG20	Radio Programme Production	To introduce students to the principles of sounds and the art of making audio programmes	Attain an in-depth knowledge in the respective domains augmented Through self-learning.	To obtain wide Knowledge in the area of Electronic Media Production and demonstrate Clear and coherent communication skills.	Acquiring the knowledge on Production management and production elements.

M.Sc. Electronic Media	PCEMI20	Practical III – Non-Linear Editing	To teach students the art of editing audio and video through Nunda/ Adobe Audio Editing and Final Cut Pro software respectively and to complete basic exercises in editing.	Assimilate and apply principles and concepts towards skill development And employability.	PSO4. To Integrate the issues of social and Ethical relevance in the field of Documentary and Short film Production.	Develop the various formats of Programme Production.
M.Sc. Electronic Media	PCEMJ20	Practical IV – Project: Production	To train students in shooting and directing a short-film or documentary, by putting into practice the various techniques learned in Video and Audio production and Script writing and Direction.	Persist in life-long learning for personal and societal progress.	To Integrate the issues of social and Ethical relevance in the field of Documentary and Short film Production.	Executing the Production process of Documentary/short film
M.Sc. Electronic Media	PEEMD20	Elective II B: Mobile Communication	It is particularly aimed at equipping with Wireless Communication students with advanced communication theory and technologies, vital for a successful career in digital economy.	Develop research skills through multi/inter/trans-disciplinary perspectives.	To obtain wide Knowledge in the area of Electronic Media Production and demonstrate Clear and coherent communication skills.	Evaluating the various kinds of wireless network and its uses.
M.Sc. Electronic Media	PCEMO20	Practical VI – Basics 3D Graphics and Animations	To enable students to learn the art of 3D animation and modelling using 3D graphics software.	Assimilate and apply principles and concepts towards skill development And employability.	To Assimilate and apply Video and Audio editing techniques, Multimedia, and Web Designing Projects	Compile the Concept of Lighting and Camera effect in 3d Animation.

					towards skill development and employability.	
M.Sc. Electronic Media	PEEME20	Elective III A: Technical Business Communication	To initiate students to the types and techniques of organizational communication	Persist in life-long learning for personal and societal progress.	To acquire primary Research skills, and understand the importance of innovations, Incubation and entrepreneurship.	Assessing the importance of business correspondence and the writing skills.
M.Sc. Electronic Media	PCEMP20	Electronic Media Management	To offer an in-depth understanding of the working of media organisations and the function and ethics of media professionals in electronic media.	Apply critical and scientific approaches to address problems and find solutions.	To acquire primary Research skills, and understand the importance of innovations, Incubation and entrepreneurship.	Evaluating the Marketing strategies of Media Management.
M.Sc. Electronic Media	PCEMR20	Advertising & Integrated Marketing Communication	To introduce students to the field of Advertising in detail and the nature and challenges in the growing area of Integrated Marketing Communication	Develop research skills through multi/inter/trans-disciplinary perspectives.	To acquire primary Research skills, and understand the importance of innovations, Incubation and entrepreneurship.	Compiling the concepts of integrated marketing communication.
M.Sc. Electronic Media	PCEMT20	Practical VIII – Web Publishing	To teach students the art of designing advanced and dynamic websites using Adobe Dreamweaver software and Java Scripts	Assimilate and apply principles and concepts towards skill development And employability.	To Assimilate and apply Video and Audio editing techniques, Multimedia, and Web Designing Projects towards skill development and	Creating the Web pages and Making Links.

					employability.	
M.Sc. Mathematics	PEMAC20	Elective II A: LaTeX and MATLAB	Course designed to demonstrate the ability to type research papers in Latex Software in a fluent manner and to use and write the script files using MATLAB software	Attain an in-depth knowledge in the respective domains augmented through self-learning. Assimilate and apply principles and concepts towards skill development and employability. Apply critical and scientific approaches to address problems and find solutions. Persist in life-long learning for personal and societal progress.	Have the capability to apply the programming concepts of JAVA, MATLAB, and R language to model, formulate and solve real-life problems.	Understand the mathematical basis of common algorithms in Latex. Demonstrate the use of mathematical equations, tables and figures in Latex. Demonstrate understanding and use of MATLAB software Construct one dimensional array, two dimensional arrays and basic functions in MATLAB. Recognize the power of mathematical modelling and analysis using MATLAB and be able to apply their understanding to their further studies.
M.Sc. Mathematics	PEMAE20	Elective III A: Programming with Java	To develop knowledge in a platform-independent High-Level Programming Language Java to handle complex projects in advanced technologies.	Attain an in-depth knowledge in the respective domains augmented through self-learning. Assimilate and apply principles and concepts towards skill development and	Have the capability to apply the programming concepts of JAVA, MATLAB, and R language to model, formulate and solve real-life problems.	Understand the benefits and applications of OOP and distinguish C++ and JAVA. Gain knowledge about operators and its types. Define decision making statements and

				<p>employability. Apply critical and scientific approaches to address problems and find solutions. Persist in life-long learning for personal and societal progress.</p>		<p>solve problems based on it. Develop the program by manipulating classes and methods in the Java programming language. Explore the Java programming by using arrays.</p>
M.Sc. Mathematics	PEMAG20	Elective III B: Programming with R	To learn the advanced language R that performs various complex statistical computations and calculations.	<p>Attain an in-depth knowledge in the respective domains augmented through self - learning. Assimilate and apply principles and concepts towards skill development and employability. Apply critical and scientific approaches to address problems and find solutions. Persist in life-long learning for personal and societal progress.</p>	Have the capability to apply the programming concepts of JAVA, MATLAB, and R language to model, formulate and solve real-life problems.	<p>Familiarize with basics of R software and built in function of R.. Identify the characteristics of datasets and plot the datasets in R using graphical methods. Demonstrate understanding and use of for loop, if statement and break. Implement the learning techniques and computing environment that are suitable for the applications under consideration. Compute vectors and matrices, matrix inverse, eigen values</p>

M.Sc. Mathematics	PEMAF20	Elective Practical: Java	To design and program stand-alone Java applications.	<p>Attain an in-depth knowledge in the respective domains augmented through self-learning.</p> <p>Assimilate and apply principles and concepts towards skill development and employability.</p> <p>Apply critical and scientific approaches to address problems and find solutions.</p> <p>Persist in life-long learning for personal and societal progress.</p>	<p>Have the capability to apply the programming concepts of JAVA, MATLAB, and R language to model, formulate and solve real-life problems.</p>	<p>and eigen vectors.</p> <p>Implement programs with classes.</p> <p>Write programs that perform operations using arrays.</p> <p>Develop the program by decision making statements and solve problems based on it.</p> <p>Illustrate basic programming concepts such as program flow and syntax of a high-level general purpose language.</p> <p>Take a problem, figure out the algorithm to solve it and write the code.</p>
M.Sc. Mathematics	PEMAH20	Elective Practical: R	To use R for descriptive statistics and write simple programs in R.	<p>Attain an in-depth knowledge in the respective domains augmented through self-learning.</p> <p>Assimilate and apply principles and concepts towards skill development and employability.</p> <p>Apply critical and scientific approaches to address problems and</p>	<p>Have the capability to apply the programming concepts of JAVA, MATLAB, and R language to model, formulate and solve real-life problems.</p>	<p>Familiarize with basics of R software and built in function of R.</p> <p>Identify the characteristics of datasets and plot the datasets in R using graphical methods.</p> <p>Demonstrate understanding and use data frames.</p> <p>Implement the learning techniques and</p>

				find solutions. Persist in life-long learning for personal and societal progress.		computing environment that are suitable for the applications under consideration. Compute vectors and matrices, matrix inverse, eigen values and eigen vectors.
M.Sc. Physics	PEPHA20	Elective I A: Electronic Devices and Applications	To understand the concepts of combinational circuits and sequential circuits and A/D –D/A converters used to design advanced digital system.	Attain an in-depth knowledge in the respective domains augmented through self-learning. Apply critical and scientific approaches to address problems and find solutions.	Understand the various methods in the respective field. Gain knowledge about various applications.	To understand the concepts of combinational circuits and sequential circuits and A/D –D/A converters used to design advanced digital system.
M.Sc. Physics	PCPHK20	Microprocessor and Micro-controller	To build projects using Microprocessor & Microcontrollers and C language.	Assimilate and apply principles and concepts towards skill development and employability. Persist in life-long learning for personal and societal progress.	Understand the various methods in the respective field. Gain knowledge about various applications.	Develop programs using 8085 Microprocessor Instruction set and addressing modes. Describe and perform different types of peripheral interfaces to 8085 Microprocessor. Explain hardware, instruction set and addressing modes of Microcontroller 8051 and develop programming for basic

						operations. Describe and perform different types of external interfaces to 8051 Microcontroller.
M.Sc. Zoology	PIZOF20	Independent Elective IIIB: Dairying	Course designed to meet the requirements to start a dairy farm	Assimilate and apply principles and concepts towards skill development and employability.	Conduct their duty with at most honesty and adhere to ethical protocols. On the whole, be agents of social transformation to up bring their society at large.	Discuss the development and management of dairying. Explain properties of milk and its composition. Describe various periods of milking, variations in compositions and equipment's used in milking. Discuss entry of bacteria into milk and types of bacteria. Explain various methods of pasteurization.
M.Sc. Zoology	PEZOG20	Elective IV A: Fishery Biology	Course designed to meet the requirements to start a Fish Farm	Assimilate and apply principles and concepts towards skill development and employability.	Gain ability to develop research aptitude/creative thinking in contemporary and current fields of interest.	Apply the parameters for the growth of fish, biology of fish and gears in fishery. Acquire knowledge of biology and techniques of shell fisheries. Apply knowledge in establishing and

						managing sea weed and pearl culture and byproducts of fishery. Differentiate the types of fish cultures pathogens and their control measures. Explain the processing, transportation and marketing of Fishes.
M.Sc. Microbiology	PEMBB20	Economic Microbiology	The course is designed to introduce entrepreneurial skills among students to become entrepreneurs and can decide to make the idea reality.	Apply critical and scientific approaches to address problems and find solutions.	Incorporate effective career with marketing, project management, business development or venture capital within the biotech, pharmaceutical, medical technology or related fields.	Utilize microorganisms as biofertilizers and for vermicomposting. Analyse microbial cells as fermented products. Use yeast in and as food and feed. Demonstrate mushroom cultivation and its storage. Discuss biotechnological applications of microalgae.

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