



## AUXILIUM COLLEGE (Autonomous)

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

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: ENVIRONMENTAL SUSTAINABILITY (NEEDS)

Programme	Course Code	Title of Course	Description	PO	PSO	CO
B.A. English	UENGA20	General English Paper-I	Course units like The Piper and The Kitten and Falling Leaves (Poems) Panchatantra Tales- Book III - Crows and the Owls: How the Birds Picked a King. How the Rabbit Fooled the Elephant (Short Stories) initiate and instill in the minds of students love for the environment and its ecology	Appreciate biodiversity and enhance eco-consciousness for sustainable development of the society.	Appreciate life, think critically, and develop positive, interpersonal relationship with fellow humans	Locate the historical and cultural context of English Romanticism. Discuss the traits of Romanticism with emphasis on concepts of self, imagination and the unconscious Apply historical, social, philosophical and political contexts to interpret texts

B.A. English	UENGB20	General English Paper-II	Course units like The Tree Speaks and Sparrows - Short story, initiate and instill in the minds of students love for the environment and its ecology	Appreciate biodiversity and enhance eco-consciousness for sustainable development of the society.	Pursue higher knowledge, qualify professionally, enhance entrepreneurial skills and contribute towards the needs of the society.	Locate the historical and cultural context of English Romanticism. Discuss the traits of Romanticism with emphasis on concepts of self, imagination and the unconscious Apply historical, social, philosophical and political contexts to interpret texts
B.A. English	UCENH20	Romantic Literature	The course sensitizes students on the value of nature, environment, ecology and human lives	Attain knowledge and understand the principles and concepts in the respective discipline. Appreciate biodiversity and enhance eco-consciousness for sustainable development of the society. Emulate positive social values and exercise leadership qualities and team work.	Remember the principles of Literature in general and English Literature in particular and understand its typological, critical, socio-cultural aspects	Locate the historical and cultural context of English Romanticism. Discuss the traits of Romanticism with emphasis on concepts of self, imagination and the unconscious Apply historical, social, philosophical and political contexts to interpret texts
B.A. History	UEHIE20	Elective- Geography of India	To enable the students to understand the physiographic of India and its natural resources	Appreciate Bio-diversity and enhance eco-consciousness for sustainable development	Acquire the social values that indwell in History to become the leaders of politics and commit to work for social justice, peace, and sustainable development	State the evolution of the physical features of India

B.B.A	UABEA20	Business Environment and Ethics	Course focuses on the environment and its impact on business. Recognize the importance of business ethics and social responsibility in today's business	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.	To attain the ability to be self - directed towards their career and contribute to the society as responsible citizens.	To recognize the importance of business ethics and social responsibility as an individual to the society
B.B.A	UCBAM20	Industrial Relations	Course is designed to cover the basic concepts of Industrial Relations	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	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	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 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 thorough in the contractual relationships in business

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	USBAF520	Application 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.Com	USCOD520	Consumer Guide and Empowerment	Acquired conceptual knowledge on consumer act, RTI act and FSSAI.	Excel as a socially committed individual having empathy for the needs of the society through value-based education.	Practical Applications gained over the year in the field of auditing	Students will be able to appreciate the emerging questions and policy issues in consumer law for future research

B.Com	USCOA120 / USCOA220	Consumer Awareness	Learn ways and means in safeguarding the rights of consumers	Life Long Learning recognize the need for and have the ability to engage in lifelong learning process to cope up with the emerging trends in social, cultural, economic and technological changes	Addressing the needs of the nation cater to the needs of the society so as to contribute for the development of the nation	Students gained conceptual knowledge on the social responsibilities of the consumers
B.Com	UCCOK20	Marketing	Understand the various methods of channels of distribution and familiarize with latest Technologies.	Function effectively as an individual and as a member or leader in teams strengthening group dynamics to achieve the common goals of the organisations.	Exercise leadership qualities and moral values through ethical ways with the concern for the society and the environment with team spirit to adapt to change throughout their professional career.	To understand the dynamics of marketing and to know about latest trends in marketing
B.Sc. Biochemistry	UCBCA20	Bioorganic Chemistry	To provide a clear note on the bioorganic compounds.	Appreciate biodiversity and enhance eco-consciousness for sustainable development of the society.	Create an awareness of resources and enhance eco - consciousness for sustainable development of society	Assess the structural features of genetic material.
B.Sc. Biochemistry	UCBCC20	Main Practical-I	To provide a wide practical knowledge on Qualitative and Quantitative Analysis.	Appreciate biodiversity and enhance eco-consciousness for sustainable development of the society.	Create an awareness of resources and enhance eco - consciousness for sustainable development of society	Analyses quantitatively the biomolecules and mineral components

B.Sc. Biochemistry	UCBCB20	Cell Biology	To provide a deep knowledge about cell – the basic unit of life.	Appreciate biodiversity and enhance eco-consciousness for sustainable development of the society.	Create an awareness of resources and enhance eco - consciousness for sustainable development of society	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.	Appreciate biodiversity and enhance eco-consciousness for sustainable development of the society.	Create an awareness of resources and enhance eco - consciousness for sustainable development of society	Compare natural and artificial radiation source and its importance
B.Sc. Biochemistry	UCBCE20	Physiology and Nutrition	To understand the homeostatic mechanism of each organ.	Appreciate biodiversity and enhance eco-consciousness for sustainable development of the society.	Create an awareness of resources and enhance eco - consciousness for sustainable development of society	Identify the nutrients in food and their functions in maintaining health
B.Sc. Biochemistry	UCBCF20	Main Practical-II	To inculcate practical skill in Biochemistry.	Appreciate biodiversity and enhance eco-consciousness for sustainable development of the society.	Create an awareness of resources and enhance eco - consciousness for sustainable development of society	Explain the basic principles involved in isolation of bio molecules from various source
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	Appreciate biodiversity and enhance eco-consciousness for sustainable development of the society.	Create an awareness of resources and enhance eco - consciousness for sustainable development of society	Understand the common health problems of women
B.Sc. Biochemistry	UCBCG20	Enzymes & Intermediary metabolism	To impart knowledge about the enzymes and the metabolism of biomolecules and its interrelationship.	Appreciate biodiversity and enhance eco-consciousness for sustainable development of the society.	Create an awareness of resources and enhance eco - consciousness for sustainable development of society	Compile the catabolism of amino acid and metabolism of lipids with their significance

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.	Appreciate biodiversity and enhance eco-consciousness for sustainable development of the society.	Create an awareness of resources and enhance eco - consciousness for sustainable development of society	
B.Sc. Biochemistry	UEBCA20	Elective IA: Immunology	To help the students to understand the components of Immune system	Appreciate biodiversity and enhance eco-consciousness for sustainable development of the society.	Create an awareness of resources and enhance eco - consciousness for sustainable development of society	Explain the stages of transplantation
B.Sc. Biochemistry	UEBCB20	Elective IB: Environmental Toxicology	To understand the basics in toxicological aspects that effect the environment.	Appreciate biodiversity and enhance eco-consciousness for sustainable development of the society.	Create an awareness of resources and enhance eco - consciousness for sustainable development of society	Explain the properties of pollutants, effects, origin and occurrence in the environment
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.	Appreciate biodiversity and enhance eco-consciousness for sustainable development of the society.	Create an awareness of resources and enhance eco - consciousness for sustainable development of society	Predict the biochemical laboratory analysis
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.	Appreciate biodiversity and enhance eco-consciousness for sustainable development of the society.	Create an awareness of resources and enhance eco - consciousness for sustainable development of society	Analyze the biological sample for the enzyme activity



B.Sc. Biochemistry	USBCCn20	Skill Based Elective: III: Entrepreneurial Biochemistry	To understand the concept of entrepreneurship	Appreciate biodiversity and enhance eco-consciousness for sustainable development of the society.	Create an awareness of resources and enhance eco - consciousness for sustainable development of society	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.	Appreciate biodiversity and enhance eco-consciousness for sustainable development of the society.	Create an awareness of resources and enhance eco - consciousness for sustainable development of society	Demonstrate the nature of Genes
B.Sc. Biochemistry	UEBCC20	Elective IIA: Clinical Biochemistry	To understand the biochemical basis of various diseases and disorders	Appreciate biodiversity and enhance eco-consciousness for sustainable development of the society.	Create an awareness of resources and enhance eco - consciousness for sustainable development of society	Compare the application of diagnostic enzymes
B.Sc. Biochemistry	UEBCD20	Elective IIB: Pharmacology	To make detailed study of drugs, and their actions on living systems	Appreciate biodiversity and enhance eco-consciousness for sustainable development of the society.	Create an awareness of resources and enhance eco - consciousness for sustainable development of society	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	Appreciate biodiversity and enhance eco-consciousness for sustainable development of the society.	Create an awareness of resources and enhance eco - consciousness for sustainable development of society	Identify and debate the ethical and social issues in the field of biotechnology and get insight in application of rDNA technology



B.Sc. Biochemistry	UEBCF20	Elective IIIB: Plant Biochemistry	To explore the applications of plant and their products	Appreciate biodiversity and enhance eco-consciousness for sustainable development of the society.	Create an awareness of resources and enhance eco - consciousness for sustainable development of society	Compile the mechanism of seed germination
B.Sc. Biochemistry	USBCDn20	Skill Based Elective: IV- Medical Laboratory Technology	To make detailed study of the organization and functions of a laboratory	Appreciate biodiversity and enhance eco-consciousness for sustainable development of the society.	Create an awareness of resources and enhance eco - consciousness for sustainable development of society	Apply histopathological techniques in detecting abnormal cells
B.Sc. Biochemistry	USBCAn20	Skill Based Elective: II - Nutritional Biochemistry	To make a note on nutrients and its role on metabolism.	Appreciate biodiversity and enhance eco-consciousness for sustainable development of the society.	Create an awareness of resources and enhance eco - consciousness for sustainable development of society	Describe the role of antioxidants
B.Sc. Biochemistry	UABCA20	Allied Biochemistry - I	To acquire knowledge on the structure and the function of biomolecules	Appreciate biodiversity and enhance eco-consciousness for sustainable development of the society.	Create an awareness of resources and enhance eco - consciousness for sustainable development of society	
B.Sc. Biochemistry	UABCB20	Allied Biochemistry - II	To understand the basic of metabolic pathway	Appreciate biodiversity and enhance eco-consciousness for sustainable development of the society.	Create an awareness of resources and enhance eco - consciousness for sustainable development of society	

B.Sc. Biochemistry	UABCC20	Allied Biochemistry Practical	To acquire knowledge on the structure and the function of biomolecules	Appreciate biodiversity and enhance eco-consciousness for sustainable development of the society.	Create an awareness of resources and enhance eco - consciousness for sustainable development of society	
B.Sc. Biochemistry	UGBCAn20	NME: Disease and Treatment	To provide a basic knowledge about common diseases and its treatment.	Appreciate biodiversity and enhance eco-consciousness for sustainable development of the society.	Create an awareness of resources and enhance eco - consciousness for sustainable development of society	Acquire a broad knowledge about the deadliest diseases in the world
B.Sc. Biochemistry	UCBCBn20	NME: Therapeutic Agents	To impart knowledge on action of drugs in treating diseases.	Appreciate biodiversity and enhance eco-consciousness for sustainable development of the society.	Create an awareness of resources and enhance eco - consciousness for sustainable development of society	Acquire knowledge on the medicinal therapy for various health conditions and function of medicinal plants as therapeutics
B.Sc. Chemistry	USCHA320	Industrial Chemistry	Enables students to acquire an in depth knowledge on various areas of industrial chemistry and effluent treatment.	Appreciate biodiversity and enhance eco-consciousness for sustainable development of the society.	Integrate the knowledge and skills developed in multidisciplinary environments and function effectively as an individual or a leader and contribute towards the needs of the society.	Explain the various process involved in the manufacture of leathers and leather products.

B.Sc. Chemistry	USCHB420	Agricultural Chemistry	Emphasize the benefits and adverse effects of pesticides, fungicides and insecticides.	Appreciate biodiversity and enhance eco-consciousness for sustainable development of the society.	Integrate the knowledge and skills developed in multidisciplinary environments and function effectively as an individual or a leader and contribute towards the needs of the society.	Summarize the certification of organic products. Identify the benefits and adverse effects of pesticides.
B.Sc. Chemistry	UNEVS20	Environmental Studies	To gain knowledge about the elements of nature and its protection.	Appreciate biodiversity and enhance eco-consciousness for sustainable development of the society.	Integrate the knowledge and skills developed in multidisciplinary environments and function effectively as an individual or a leader and contribute towards the needs of the society.	Gain knowledge on multidisciplinary nature of Environmental studies Understand the Ecosystem, its structure and function Understand the conservation of Biodiversity
B.Sc. Chemistry	UGCHB520 /UGCHB620	Cosmetics and Dyes	contribution of various industries to environmental pollution and its effect on human health.	Appreciate biodiversity and enhance eco-consciousness for sustainable development of the society.	Integrate the knowledge and skills developed in multidisciplinary environments and function effectively as an individual or a leader and contribute towards the needs of the society.	Understand the impact of dyes used in textile and leather industry to environmental pollution and analyse the importance of dyes in pharmaceutical and food industry.

B.Sc. Microbiology	UCMBK20	Microbial Ecology and Soil Microbiology	The course is designed to enable the learners understanding on the microorganisms present in their environments and their habitat, microbial interaction, biogeochemical cycling and waste management.	Appreciate biodiversity and enhance eco-consciousness for sustainable development of the society.	Understand and explain the diversity of microorganisms and its interaction with the environment for sustainable development.	Compare the role of microbial communities in the environment and discuss on the significance of Aero and Water Microbiology Assess on the microbiological aspects of management of sewage and design the treatment procedures.
B.Sc. Microbiology	UAMBB20	Allied IV: Microbiology-II	The course is designed to make the students know about the third major component of the biotic system and provide a detailed insight on the significance microbes in different environments.	Appreciate biodiversity and enhance eco-consciousness for sustainable development of the society.	Understand and explain the diversity of microorganisms and its interaction with the environment for sustainable development.	Discuss the role of microorganisms in soil and biogeochemical cycles. Disseminate knowledge on the potability of water, purification of municipal water supplies and sewage treatment process Communicate sources of airborne pathogens and the diseases caused.

B.Sc. Microbiology	UGMBB20	Waste water Microbiology	The course is designed to provide in depth knowledge on the significance of waste water and on waste water and its treatment cum recycling methods.	Acquire and apply analytical, critical and creative thinking, and problem-solving skills	Realize the application-oriented aspects of Microbiology and assimilate the technical skills in basic, medical and applied Microbiology.	Use the available technologies for physical, chemical and biological treatment of municipal water. Demonstrate the microbiological analysis of potable water and brief out water borne diseases. Outline bioremediation of pesticides, heavy metals and oil spills. Explain the sewage treatment process. Utilization of solid and liquid waste.
B.Sc. Visual Communication	UCVCG20	Media, Culture and Society	To enable the students to understand the theories of media and the impact of media on society and culture	Appreciate biodiversity and enhance eco-consciousness for sustainable development of the society.	To become a socially responsible citizen with a global vision.	Analyze the various models of media and Categories the ecological perspective of media audience
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	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	UCZOK20	Environmental Biology	Create awareness on Environment issues and its conservation.	Appreciate biodiversity and enhance eco-consciousness for sustainable development of the society.	Demonstrate comprehensive knowledge on the complexity of life process, their molecular, cellular and physiological process, their genetics, evolution, behaviour and their interrelationship with the environment.	Explain ecology its branches and abiotic and biotic components of ecosystem. Discuss animal association, biogeochemical cycle and Ecosystem and its functions. Discuss the structure and functions of terrestrial and aquatic ecosystems.
B. Com (B & I)	UCBIR20	E-commerce, E-banking and Tally	Learn about various components of E-commerce, E-Banking Technologies and accounts in TALLY	Pursue higher knowledge, qualify professionally, enhance entrepreneurial skills and contribute towards the needs of the society.	Engaging in Lifelong Learning, apply ethical principles and excel as a socially committed individual having empathy for the needs of the society.	To provide technical knowledge about the applications of E-Banking and E-Commerce

Allied Botany	UNEVS20	Environmental Studies	Course is designed for students to learn biodiversity and to conserve the environment and for their future. They are also exposed to projects on environmental issues.	Acquire and apply analytical, critical and creative thinking, and problem-solving skills Effectively communicate general and discipline-specific information, ideas and opinions. Appreciate biodiversity and enhance eco-consciousness for sustainable development of the society	Engaging in Lifelong Learning, apply ethical principles and excel as a socially committed individual having empathy for the needs of the society.	Gain knowledge on multidisciplinary nature of environmental studies Understand the Ecosystem, its structure and function Understand the conservation of biodiversity Gain knowledge on Environmental pollution, causes and its effects Apply the laws in prevention of environment.
M.A. English	PCENI20	Romantic and Victorian Literature	The course aims at creating awareness and subsisting students regarding environmental sustainability through representations in literary texts.	Integrate issues of social relevance in the field of study.	Appreciate and discuss varying opinion of literary works	Explain the nature of Industrial Revolution, the subsequent scientific and material progress and to explore a society that was being re-organized around Science, Factories and Business. Connect the works of the Romantics and Victorians to their social and historical backgrounds and evaluate it



M.A. English	PIENH20	Independent Elective–IV B: Literature and Environment	The course aims at creating awareness and sensitizing students regarding environmental sustainability through representations in literary texts.	Integrate issues of social relevance in the field of study.	Appreciate and discuss varying opinion of literary works Critically interpret emerging traditions of literature, culture and thought in the canon of new literatures	Explain the nature of Industrial Revolution, the subsequent scientific and material progress and to explore a society that was being re-organized around Science, Factories and Business. Connect the works of the Romantics and Victorians to their social and historical backgrounds and evaluate it
MSW	PISWA20	Disaster Management	Course designed to gain preliminary knowledge on disasters and ability to respond to the situation	Assimilate and apply principles and concepts towards skill development and employability	To utilize the opportunity and of professionalism in the development process	Equip students to work in disaster situations and expose knowledge on the impact of disaster on individual and community
MSW	PESWA20	Social Problems	The paper introduces various social problems and catastrophes such as fire, drought, famine etc., and the various methods to find out the roots of the problems from various cultural/geographical backgrounds.	Integrate issues of social relevance in the field of study	To utilize the available resources for the empowerment of vulnerable groups and critically analyze the problems and needs to create impact in society	Critically analyze the impact of social problems in the society

MSW	PSHRD20	Organizational Behaviour	To present a new perspective for management	Develop research skills through multi/inter/trans-disciplinary perspectives.	It brings a change in attitudes and values of individual respective of their class, caste or gender	Explore managerial and interpersonal skills in presenting a new perspective for management
MBA	PIBAB20	Disaster Management	To empower and inhibit the knowledge about the Disaster Rehabilitation & Futuristic Sustainable Measures adopted	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.	Empower and inhibit the knowledge about the Disaster Rehabilitation & Futuristic Sustainable Measures adopted.
MBA	PIBAC20	Industrial Safety and Pollution Management	To Ascertain the Procedures of Environmental Safety	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 the concepts of Environmental Management
M.Sc. Biochemistry	PCBCA20	Biomolecules	To understand the salient features of biomolecules in the organization of life.	Persist in life-long learning for personal and societal progress	Demonstrate understanding of the societal, health, safety, legal and cultural issues and consequent responsibilities	List out the significance of vitamins, its deficiency diseases and about the porphyrin ring containing molecules in living system

M.Sc. Biochemistry	PCBCB20	Human Physiology and Nutrition	To study about the Physiological system of human body and Nutrients with their deficiencies.	Persist in life-long learning for personal and societal progress	Demonstrate understanding of the societal, health, safety, legal and cultural issues and consequent responsibilities	Utilize knowledge on nutrients with their deficiencies
M.Sc. Biochemistry	PCBCC20	Cell Biology	To understand the Cell, Cell organelle's structure, function and metabolism	Persist in life-long learning for personal and societal progress	Demonstrate understanding of the societal, health, safety, legal and cultural issues and consequent responsibilities	Discuss about the various sub-cellular components of cells and its functions in the biological system
M.Sc. Biochemistry	PCBCG20	Practical I: Main Practical-I	To help students to expertise in the Biomolecules, Cell Dynamics and biochemical techniques.	Persist in life-long learning for personal and societal progress	Demonstrate understanding of the societal, health, safety, legal and cultural issues and consequent responsibilities	
M.Sc. Biochemistry	PCBCH20	Practical II: Main Practical-II	To learn about the analytical techniques and enzymology experiments.	Persist in life-long learning for personal and societal progress	Demonstrate understanding of the societal, health, safety, legal and cultural issues and consequent responsibilities	
M.Sc. Biochemistry	PEBCA20	Elective IA: Biophysical Chemistry	To make the students to understand the concepts of bioenergetics and techniques.	Persist in life-long learning for personal and societal progress	Demonstrate understanding of the societal, health, safety, legal and cultural issues and consequent responsibilities	Demonstrate the concept of bioenergetics and its importance

M.Sc. Biochemistry	PEBCB20	Elective IB: Pharmaceutical Biochemistry	To make the students aware of uses and abuse of drugs.	Persist in life-long learning for personal and societal progress	Demonstrate understanding of the societal, health, safety, legal and cultural issues and consequent responsibilities	Use the medicinal plants in drugs as a curative
M.Sc. Biochemistry	PCBCD20	Analytical Biochemistry	To understand the principles and applications of analytical techniques.	Persist in life-long learning for personal and societal progress	Demonstrate understanding of the societal, health, safety, legal and cultural issues and consequent responsibilities	Pursue knowledge about centrifugation and radioactivity and critically assess advances with in the field
M.Sc. Biochemistry	PCBCE20	Enzymology	To learn the methodology involved in assessing the enzyme activity and mechanism of enzyme action.	Persist in life-long learning for personal and societal progress	Demonstrate understanding of the societal, health, safety, legal and cultural issues and consequent responsibilities	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.	Persist in life-long learning for personal and societal progress	Demonstrate understanding of the societal, health, safety, legal and cultural issues and consequent responsibilities	Interpret how plants convert energy to nourish themselves
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.	Persist in life-long learning for personal and societal progress	Demonstrate understanding of the societal, health, safety, legal and cultural issues and consequent responsibilities	Apply the concept of evolution in population genetics

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.	Persist in life-long learning for personal and societal progress	Demonstrate understanding of the societal, health, safety, legal and cultural issues and consequent responsibilities	Discuss the effects of toxic substances on molecular and cellular levels
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.	Persist in life-long learning for personal and societal progress	Demonstrate understanding of the societal, health, safety, legal and cultural issues and consequent responsibilities	
M.Sc. Biochemistry	PCBCJ20	Advanced Immunology	To help the students to understand the components of immune system and it's functioning.	Persist in life-long learning for personal and societal progress	Demonstrate understanding of the societal, health, safety, legal and cultural issues and consequent responsibilities	Compare and contrast innate and adaptive immunity
M.Sc. Biochemistry	PCBCK20	Advanced Biotechnology	To learn how to apply the knowledge of genetic engineering in problem solving and in practice.	Persist in life-long learning for personal and societal progress	Demonstrate understanding of the societal, health, safety, legal and cultural issues and consequent responsibilities	Categorize how plant and animal cells are cultured and genetically manipulated in laboratory

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.	Persist in life-long learning for personal and societal progress	Demonstrate understanding of the societal, health, safety, legal and cultural issues and consequent responsibilities	Analyse the prevalence and impact of endocrine hormone in regulating health
M.Sc. Biochemistry	PCBCO20	Practical II: Main Practical - IV	To help students to expertise in the molecular biology and clinical Biochemistry techniques.	Persist in life-long learning for personal and societal progress	Demonstrate understanding of the societal, health, safety, legal and cultural issues and consequent responsibilities	
M.Sc. Biochemistry	PEBCE20	Elective III A: Microbiology	To understand the importance of applications of microorganisms.	Persist in life-long learning for personal and societal progress	Demonstrate understanding of the societal, health, safety, legal and cultural issues and consequent responsibilities	Recall the taxonomy, morphological features and division process of microbes
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	Persist in life-long learning for personal and societal progress	Demonstrate understanding of the societal, health, safety, legal and cultural issues and consequent responsibilities	Practice the concepts of animal studies and CPCSEA guidelines in research

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.	Persist in life-long learning for personal and societal progress	Demonstrate understanding of the societal, health, safety, legal and cultural issues and consequent responsibilities	Demonstrate the nature and role of Gene in life activity.
M.Sc. Biochemistry	PCBCM20	Advanced Clinical Biochemistry	To gain concepts of assessing the human physiology using biological fluid.	Persist in life-long learning for personal and societal progress	Demonstrate understanding of the societal, health, safety, legal and cultural issues and consequent responsibilities	
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.	Persist in life-long learning for personal and societal progress	Demonstrate understanding of the societal, health, safety, legal and cultural issues and consequent responsibilities	Identify various natural and artificial ways to propagate plants
M.Sc. Biochemistry	PEBCH20	Elective IV B: Herbal Therapy	To help students to understand the concepts in pharmacognosy and the role of medicinal plants.	Persist in life-long learning for personal and societal progress	Demonstrate understanding of the societal, health, safety, legal and cultural issues and consequent responsibilities	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	Persist in life-long learning for personal and societal progress	Demonstrate understanding of the societal, health, safety, legal and cultural issues and consequent responsibilities	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	Persist in life-long learning for personal and societal progress	Demonstrate understanding of the societal, health, safety, legal and cultural issues and consequent responsibilities	Apply the general methods for preserving fruits and vegetables
M.Sc. Biochemistry	PIBCC20	IEC: Horticulture	To emphasis on the significance and concepts of horticulture and the techniques involved.	Persist in life-long learning for personal and societal progress	Demonstrate understanding of the societal, health, safety, legal and cultural issues and consequent responsibilities	Outline the impact of soil nature on horticulture
M.Sc. Biochemistry	PIBCD20	IEC: Cancer Biology	To help students to understand the biology, diagnosis and treatment involved in cancer.	Persist in life-long learning for personal and societal progress	Demonstrate understanding of the societal, health, safety, legal and cultural issues and consequent responsibilities	
M.Sc. Biochemistry	PIBCE20	IEC: Nanobiotechnology	The course aims to provide an interdisciplinary knowledge on Nano materials and their applications in biosciences.	Persist in life-long learning for personal and societal progress	Demonstrate understanding of the societal, health, safety, legal and cultural issues and consequent responsibilities	Identify the role of plants in Nanoparticle synthesis
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	Persist in life-long learning for personal and societal progress	Demonstrate understanding of the societal, health, safety, legal and cultural issues and consequent responsibilities	

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.	Persist in life-long learning for personal and societal progress	Demonstrate understanding of the societal, health, safety, legal and cultural issues and consequent responsibilities	
M.Sc. Biochemistry	PIBCH20	IEC: Entrepreneurial Biochemistry	The course provides detailed knowledge on ideas, opportunities and components necessary for bio-entrepreneurship.	Persist in life-long learning for personal and societal progress	Demonstrate understanding of the societal, health, safety, legal and cultural issues and consequent responsibilities	
M.Sc. Chemistry	PCCHB20	Structural Inorganic Chemistry	This course educates students about environmentally friendly solvents.	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.	Summarize the theories of acids and bases.
M.Sc. Chemistry	PCCHC20	Kinetics and Photo Chemistry	This course educates students about eco-friendly photochemical reactions.	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.	Derive the kinetics of photochemical reactions, and explain the applications of radiation chemistry, kinetics of photochemical reactions, solar energy conversion and radiolysis of water.

M.Sc. Chemistry	PECHE20	Elective III A: Analytical Chemistry	This course enables students to know about the importance of water chemistry and green chemistry to environmental sustainability.	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.	Elaborate the principle, instrumentations of the Gas, HPLC and SCF chromatographic techniques and their applications. Analyze the importance of Green Chemistry and its impact on the sustainable environment and the quality of water.
M.Sc. Chemistry	PECHF20	Elective III B: Green Chemistry	Apply the goals and principles of green chemistry in synthesizing chemical compounds.	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 goals and progress of green chemistry. Analyse the future trends in green chemistry
M.Sc. Chemistry	PECHH20	Elective IV B: Organic Farming and Solid Waste Management	To manage solid and hazardous wastes in an eco-friendly manner.	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.	Evaluate the technology to approach the benefits of organic farming. Demonstrate the methods to reduce hazards.

M.Sc. Chemistry	PICHJ20	IEP: Leather Chemistry	To practice cleaner technology in leather industries.	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.	Discuss the cleaner technology in leather industry. Apply waste water management and zero discharge approaches in leather industry.
M.Sc Computer Science	PICSB20	Green Computing	Understand the dimensions and goals of Green IT.	Attain an in-depth knowledge in the respective domains augmented through self-learning	To design, implement, and evaluate a computer-based system, process, component, or program for various applications.	Understand the Concept of Green IT.
M.Sc. Electronic Media	PEEMC20	Elective II A: Inter-Cultural Communication	To initiate students to the challenges in global communication in the age of cross-culture communication	Develop research skills through multi/inter/trans-disciplinary perspectives.	To become ethically committed media professionals and entrepreneurs by adhering to Human values, the Indian and the Global cultures.	Evaluating the Relationship Between Intercultural Communications in News Media Production.

M.Sc. Zoology	PCZOE20	Applied Entomology	Create awareness on pest and their control measures.	Integrate issues of social relevance in the field of study.	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.	Identify the pest in different cash crops and the mode of infection. Analyze the pest species of vegetables, fruits, stored grains and household pests. Categorize the different insect pests and vectors of livestock. Explain the classification of insecticides and the mode of action. Apply appropriate method of insect pest management and integrated pest management.
M.Sc. Zoology	PCZOF20	Biodiversity and Wildlife Conservation	Students will understand the biodiversity and know the methods of conservation.	Persist in life-long learning for personal and societal progress.	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 Biodiversity India and ecosystems. Explain the values of Biodiversity. Discuss the Wildlife of India and threats to the wildlife. Explain Wildlife protection and conservation. Explain conservation

M.Sc. Zoology	PCZOI20	Environmental Biology	Create awareness on Environment issues and its conservation.	Integrate issues of social relevance in the field of study.	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.	<p>methods.</p> <p>Describe ecological succession and Environmental stresses and their management.</p> <p>Explain the major classes of contaminants and their impact on environment.</p> <p>Explain green energy and the types of recycling technologies for solid and liquid wastes and their role in environmental conservation.</p> <p>Discuss environmental indicators and their role in environmental balances and bioremediation.</p> <p>Explain the importance of global ecology towards sustainable civilization.</p>
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M.Sc. Zoology	PCZOJ20	Limnology and Toxicology	Enable the students to understand the importance of freshwater ecosystem and its conservation.	Persist in life-long learning for personal and societal progress.	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.	Attains basic concept about fresh water habitats and its types. Describe the Physio-Chemical Characteristics and its importance in freshwater ecosystems. Summarize about the organisms and adaptation in the freshwater ecosystem.
M.Sc. Zoology	PIZOG20	Independent Elective IV A: Biosystematics	Appreciate the diversity and evolutionary relationship among organisms.	Apply critical and scientific approaches to address problems and find solutions.	Be technically sound in applying the Information technology and will be lifelong learners in updating to the current advancements in their respective fields.	Explain the concept, importance and attributes of biosystematics. Discuss the biological characteristics. Compute the evolutionary relationship among the organisms. Familiarize different taxonomic procedures, taxonomic keys and zoological nomenclature. Apply phylogeny classification at species level and infra species level.



M.Sc. Microbiology	PCMBB20	Food, Agriculture and Environmental Microbiology	The syllabus is framed to make the students familiarize on Food, Agriculture and Environmental aspects of Microbiology.	Apply critical and scientific approaches to address problems and find solutions.	Acquaint a broader knowledge in the concepts of Taxonomy, molecular biology, immunology, food, environment and agricultural Microbiology, nanotechnology, forensic science and genetic engineering.	Discuss the role of microorganisms in soil and microbial interaction. Utilize the knowledge on biogeochemical cycles to produce biofertilizers. Assess information about microbiological quality of air and water.
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*S. Dargaveeli*

**Controller of Examinations**

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Auxilium College (Autonomous)  
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*Sr. Vijay Suresh - a*

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