

Course Outcome

B.Sc. Zoology

Semester I	
ZY1CRT01 GENERAL PERSPECTIVES IN SCIENCE & PROTISTAN DIVERSITY	Co-1. To create awareness on the basic philosophy of science, concepts and scope. Co-2. To understand biological diversity of microscopic organisms through the systematic classification CO-3. To familiarize taxa level identification of protistans. Co-4. To make interest in Protistan diversity CO-5. To impart knowledge on parasitic forms of lower invertebrates.
Semester 2	
ZY2CRT02 ANIMAL DIVERSITY - NON CHORDATA	Co-1. To create appreciation on diversity of life on earth Co-2. To understand different levels of biological diversity through the systematic classification of invertebrate fauna Co-3. To familiarize taxa level identification of animals Co-4. To understand the evolutionary significance of invertebrate fauna CO-5. To instill curiosity on invertebrates around us CO-6. To impart knowledge on parasitic forms of lower invertebrates.
Semester 3	
ZY3CRT03 ANIMAL DIVERSITY – CHORDATA	Co-1. To acquire in depth knowledge on the diversity of chordates and their systematic position CO-2. To make them aware on the economic importance of some classes CO-3. To understand the evolutionary importance of selected chordate groups

	<p>Co-4. To acquire in depth knowledge on the anatomy and physiology of selected chordates by means of type study.</p>
Semester 4	
<p>ZY4CRT04 RESEARCH METHODOLOGY, BIOPHYSICS AND BIOSTATISTICS</p>	<p>CO-1. To familiarise the learner about the basic concepts of scientific method in research process Co-2. To acquire knowledge on various research designs. Co-3. To develop skill in research communication and scientific documentation CO-4. To create awareness about the laws and ethical values in biology. CO-5. To equip the students with the basic techniques of animal rearing collection and Preservation CO-6. To impart knowledge on the principle and working of various essential laboratory equipments. CO-7. To help the student to apply statistical methods in biological studies</p>
Semester 5	
<p>ZY5CRT05 ENVIRONMENTAL BIOLOGY AND HUMAN RIGHTS</p>	<p>CO-1. To instill the basic concepts of Environmental Sciences, Ecosystems, Natural Resources, Population, Environment and Society CO-2. To make the students aware of natural resources, their protection, conservation, the factors polluting the environment, their impacts and control measures CO-3. To acquire knowledge on the basic concepts of toxicology, their impact on human health and remedial measures CO-4. To create consciousness regarding Biodiversity, environmental issues & conservation strategies CO-5. To develop the real sense of Human rights – its concepts & manifestations</p>
<p>ZY5CRT06 CELL BIOLOGY AND GENETICS</p>	<p>CO-1. To understand the structure and function of the cell as the fundamentals for understanding the functioning of all living organisms.</p> <p>CO-2. To make aware of different cell organelles, their structure and role in living organisms</p> <p>CO-3. To develop critical thinking, skill and research aptitudes in basic and applied biology.</p> <p>CO-4. To emphasize the central role of genes and their inheritance in the life of all organisms.</p>

	CO-5. To understand species specific patterns of inheritance in organisms.
ZY5CRT07 EVOLUTION, ETHOLOGY & ZOOGEOGRAPHY	CO-1. To acquire knowledge about the evolutionary history of earth - living and nonliving world. CO-2. To acquire basic understanding about evolutionary concepts and theories CO-3. To study the distribution of animals on earth, its pattern, evolution and causative factors CO-4. To impart basic knowledge on animal behavioural patterns and their role.
ZY5CRT08 HUMAN PHYSIOLOGY, BIOCHEMISTRY, AND ENDOCRINOLOGY	CO-1. This course will provide students with a deep knowledge in biochemistry, physiology and Endocrinology CO-2. Defining and explaining the basic principles of biochemistry useful for biological studies for illustrating different kinds of food, their structure, function and metabolism. CO-3. Explaining various aspects of physiological activities of animals with special reference to humans. CO-4. Students will acquire a broad understanding on the hormonal regulation of physiological processes in humans. Co-5. This also will provide a basic understanding of the experimental methods and designs that can be used for further study and research. Co-7. The achievement of above objectives along with periodic class discussions of current events in science, will benefit students in their further studies in the biological/physiological sciences and health-related fields, and will contribute to the critical societal goal of a scientifically literate citizenry.
Open Course: ZY5OPT02 PUBLIC HEALTH AND NUTRITION	CO-1-To inculcate a general awareness among the students regarding the real sense of health. CO-2 To understand the role of balanced diet and exercise in maintaining health. CO-3 To understand various categories of diseases viz., food-borne, water-borne and emerging diseases.

	<p>CO-4 To motivate students to practice yoga and meditation in day-to-day life.</p> <p>CO-5 To inculcate various life skills to lead a successful life.</p> <p>CO-6 To provide basic knowledge on accident prevention and first aid measures for common accidents to lead a safety life.</p>
Semester 6	
ZY6CRT09 DEVELOPMENTAL BIOLOGY	<p>CO-1. To achieve a basic understanding on the experimental methods and designs that can be used for studies and research in developmental biology.</p> <p>CO-2. To provide the students with the periodic class discussions on current events in science which will benefit them in their future studies in the biological/ developmental sciences and health-related fields.</p> <p>CO-3. To impart knowledge on the pattern of early development in organisms using experimental models.</p> <p>CO-3. To contribute to critical societal goal of a scientifically literate citizenry.</p>
ZY6CRT10 MICROBIOLOGY AND IMMUNOLOGY	<p>CO-1. To understand the world of microorganisms.</p> <p>CO-2. To understand the structure and function of microbial cell, its division and the propagation of its life.</p> <p>CO-3. To develop critical thinking, skill and research aptitudes in basic and applied microbiology.</p> <p>CO-4 To understand how efficiently the immune system works in our body.</p> <p>CO-5 To acquire knowledge about preventing common diseases rather than curing.</p>
ZY6CRT11 BIOTECHNOLOGY, BIOINFORMATICS AND MOLECULAR BIOLOGY	<p>CO-1. To understand the functioning of organisms at molecular level.</p> <p>CO-2. To provide scientific knowledge on various technologies that can be used in the biological sciences in order to apply those in medical field for obtaining a generation free from inherited diseases.</p>

	<p>CO-3. To develop knowledge on the role of computer and softwares and their uses in biology.</p> <p>CO-4. To develop skill in handling various bioinformatic tools for understanding the sequences of various protein, amino acids, nucleic acid etc.</p>
<p>ZY6CRT12 OCCUPATIONAL ZOOLOGY</p>	<p>CO-1. To equip the students with self employment capabilities.</p> <p>CO-2. To develop knowledge on culturing, farming and harvesting of economically important organisms and their valuable products.</p> <p>CO-3. To provide scientific knowledge on profitable farming.</p>
<p>Complementary Courses:</p>	
<p>Semester 1 ZY1CMT01 NON CHORDATE DIVERSITY</p>	<p>CO-1. To study the scientific classification of invertebrate fauna.</p> <p>CO-2. To learn the physiological and anatomical peculiarities of some invertebrate phyla through type study.</p> <p>CO-3. To learn the unity of life with rich diversity of organisms & evolutionary significance of certain invertebrate fauna</p> <p>CO-4. To stimulate the curiosity of students' in the biota living around them.</p>
<p>Semester 2 ZY2CMT02 CHORDATE DIVERSITY</p>	<p>CO-1. To make the student observe the diversity in chordates and their systematic position.</p> <p>CO-2. To make the student aware of the economic importance of some chordates.</p> <p>CO-3. To learn the physiological and anatomical peculiarities of some vertebrate species through type study.</p> <p>CO-4. To stimulate the students' curiosity in vertebrates' life associated with them.</p>
<p>Semester 3 ZY3CMT03. PHYSIOLOGY AND IMMUNOLOGY</p>	<p>CO-1 To appreciate the correlation between structure and function of organisms.</p> <p>CO-2 To make the student aware on the physiology of organ systems in human body.</p>

	<p>CO-3. Students will acquire a broad understanding on the hormonal regulation of physiological processes and the disorders due to various hormonal imbalances in humans.</p> <p>CO-4 To understand how efficiently our immune system works in our body.</p> <p>CO-5 To acquire knowledge about preventing common diseases rather than curing.</p>
<p>Semester 4 ZY4CMT04. APPLIED ZOOLOGY</p>	<p>CO-1. To acquire basic knowledge and skills in applied branches of zoology.</p> <p>CO-2. To understand the technology for utilising ecofriendly organisms around them for beneficial purpose.</p> <p>CO-3. To equip the students for self employment opportunities with scientific knowledge to perform profitably & confidently</p>