Zoology Program Outcomes, Program Specific Outcomes and outcomes Zoology Program Outcomes:

1. P01 - Students gain Knowledge and skill in the fundamentals of animal sciences understands the complex interractions among various living organisms

2. P02 - Anylyse complex interactions among the carious animals of different phyla, their distribution and their distribution and their relationship with the environment.

3.P03 - Apply the knowledge of internal structure of cell, its function in control of various metabolic functions of organisms.

4.P04 - Understands the complex evolutionary processes and behaviour of animals

5.P05 - Correlates the physiological processes of animales and relationship of organ systems

6.P06 - Understanding of enviromental conservation processes and its importance pollution control and biodiversity and protection of endangered species.

7.P07 - Gain knowledge of Agro based Small scale industries like sericulture, fish farming, butterfly farming and vermicompost preparation.

8.P08 - Understands about various concepts of genetetics and its importance in human health.

9.P09 - Apply ethical priciples and commit to professional ethics and responsibilities in delivering his duties

10.P010 - Apply the Knowledge and understanding of Zoology to ons's own life and work.

11.P011 - Develops empathy and love towards the animals.

Program Specific Outcomes:

1. PS01. Understand the nature and basic concepts of cell biology, genetics taxonomy, physiology, ecology and applied Zoology

2.PS02. Analyse the relationship amoong aninmals,plants and microbes

3.PSO3. Perform procedures as per laboratory standards in the areas of Taxonomy, Physiology, Ecology, cell biology, Genetics, Applied Zoology, Clinical science tools and techniques of Zoology, Toxicology, Entomology, Nematology Sericulture, Biochemistry, Fish biology, Animal biotechnology, Immunogy and reserch methodology.

4.PS04. Understand the application of biological sciences in Apiculture Aquaculture, Aqriculture and Medicine

5. PS05. Gains knowledge about reserch methodologies, effective Communication and skills of problem solving methods

6.PSO6. Contributes the knowledge for nation building

Cource Outcomes:

Invertebrate - Sub Code - 16SCCZ01, 16SCCZ02

CO1 Describe general taxomonic rules on animal clasification

CO2 Classify Protista up to phylum using examples from parasitic adaptation

CO3 Classify Phylum Porifera to Echinodermata with taxonomic keys

CO4 Describe Phylum Nematoda and give example of pathogenic Nematodes

Environ - Bio - 16SCCZ08

Co1 Distribution of fauna in different realms interaction

CO2 Understand Animal behaviour and response of animals to different instincts

CO3 Interaction of bipta abiota

CO4 Various kinds of Animals adaptations

Chordata - 16SCZ03

CO1 Impart conceptual knowledge of verbrates, their adaptation and association in relation to their environment

CO2 Classify Phylum Protochordates to Mammaalia

CO3 Complex Vertebrate interaction

CO4 Basis concept of development biology

Cell - Bio 16SCCZ04 - Genetics and Evolution - 16SCCZ06

CO1 Structural and functional aspects of basic unit of life i.e cell concepts

CO2 Mendelian and Non Mendelian inheritance

CO3 Concept behing genetic disorder, gene mutation - various causes associated with inborn errors of metabolism

CO4 Theories of Evolution

CO5 Knowledge of ears and evolution of species.

Physiology and biochemistry - 16SCCZ05

C01 Seeks to understand the mechanisms that work to keep the human body alive and functioning

CO2 Physiological and biochemical understanding through scientific enquiry into the nature of mechanical, physical, and biochemical function of human their organs and the cells of with they are composed

CO3 Interactions and interdependence of phhysiological and biochemical processes

Entomology - 16MBEZ01:2

CO1 Imparts knowledge of beneficial and non - benefical insects

CO2 Knowledge of how they interact with their environment, other species and human

CO3 classsification of Insects

CO4 Role of insecs in spread of diseases

Sericulture - P16Z0E5A

CO1Gives knowledge of silk worm rearing

CO2 Mulberry cultivation

CO3 Pests and diseases associated with silk worm and mulberry

CO4 Various proccss involve in silk productions

Immunology - P16Z042

CO1 Imparts in depth knowledge of tissuses, cell and molecules involves in hots defense mechnisms

CO2 Underrstanding of immunity

CO3 Inreaction of antigens, antibodies, complements and immune components

Animal taxonomy, phylogeny and biodiversity - P16Z011

CO1 Imparts knowledge regarding the various Invertebrates species and the regulatory processes to safeguard them

CO2 With the study of this paper studends gain knowledge in the areas of responses to Systematic position, general organization and affinities of Ctenophora and Nemertea

CO3 Rhynchoceola, Systematic position, General organization and affinities of Rotifer

C04 Systematic position, general organization and affinities of Hemichordata

Biostatistics and computer Applications - P16Z032

CO1 Students gain knowledge about various tools & technigus used in biological system and gives them insights about their insights use in research

CO2 Biostatistics teaches them to use the best ananlysis method in their research tenndencies, probability

Animal pihysiology - P16Z021

CO1 Imparts knowledge about varoous metabolic and physiological mechanisma of the human body

CO2 Unmderstands about neurophysiology and receptors

CO3 Gain knowledge about Hormones and bioluminescence

CO2 Understanding of strees physiology and endocrine mechanisms will allow them to control their stress and emotoions by diverting towards the positive nation building activities

Fish Biology (FB) - P16Z0E4A

CO1 Course Provides them comprehensive unterstanding about aquatic ecosystem and various economic important fishes.

CO2 Students gain knowledge in the areas of responses characterization and classification of Ostracoderms, placoderms, acanthodians, holocephalic, elasmobranchs.

CO3 Students gain knowledge of integumentary system - basic structure of skin, dermal and epidermal pigments, fins and scales.

CO4 Understanding of embryogenisis - Early development and post embryonic development.

CO5 Understanding of fishes habits and habitats and their functional anatomy.

CO6 The students will be well equipped to become very competent in research or teaching fields.

CO7 It is one of the small scale industry which can provide the student employment opportunity.

Instrumentation and Computer Application in Biology

CO1 Understanding of basic concepts of instrumentation such as cell fractactionation, homogenation and centrifugation.

CO2 Students gain skills in techniques of chromatography, electrophoresis, spectroscopy and radio isotopes.

CO3 Students gain skills in histological immunological and electrophysiological techniques.

CO4 Students gain skills basics of computers, operating systems, overview of programming languages.