Vidya Vikas Mandal Pathrud's

SHANKARRAO PATIL MAHAVIDYALAYA, BHOOM.

Department of Zoology

Course Outcome

First Year

Paper No. 101 Protozoa to Annelida	
CO 1	To understand the life cycle and classification of Animal.
CO 2	To study the development and control measures.
CO 3	To study and understand the whole cell organelles with their structure and functions.
CO 4	The scope of cell biology because cell is the basic unit of life.
CO 5	To understand the life cycle and classification of Animal.

Paper No. 102 Cell Biology	
CO 1	To study functions of various cells
CO 2	Describe the components, types of cells and its organelles.
CO 3	Diverse role of cell system in energy generation and tissue organization.
CO 4	Familiarize the coordination between different organelles and its role in cell function.
CO 5	Learners will understand the cellular components underlying mitotic cell division.

Paper No. 201 Arthropoda to Echinodermata and Protochordata	
CO 1	Demonstrate solve and understand of major concept in all discipline of Zoology.
CO 2	To know the characters and development of the animals to the students.
CO 3	To use modern zoological tools, models and charts equipment.
CO 4	To understand classification and need of classification
CO 5	To understand general organization of Arthropoda to Echinodermata

Paper No. 202 Genetics I	
CO 1	Explain role of genetics in evolution.
CO 2	Describe Mendelian work and its laws of Genetics.
CO 3	Explain types and Structure of Chromosomes
CO 4	Understand Mutation and different types of gene and Chromosomal mutations
CO 5	Describe various theories of sex determination.

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Second Year

Paper No. 301 Vertebrate Zoology	
CO 1	Understand general organization of Vertebrates
CO 2	To understand the study of the life cycle and development of animals.
CO 3	To study General Character and Embryological and placenta of mammals.
CO 4	Describe adaptation and migration in birds
CO 5	Describe general features and classification of mammals up to order and explain origin of mammals.

Paper No. 302 Genetics - II	
CO 1	To understand the role of genes in the control and expression of characters.
CO 2	Biomolecule DNA and its function.
CO 3	To accurately diagram and describe the processes of replication, transcription, translation, as
CO 4	Well as predict the outcomes of these processes.
CO 5	Study of genetic variation within populations in population genetics.

Paper No. 401 Animal Physiology	
CO 1	Fundamental processes and mechanisms that provide and control the various functions of the body.
CO 2	To understand metabolical process of human body
CO 3	Students will be able to integrate the regulation of organ system and functions.
CO 4	To learn the mechanisms that operates in living organisms ranging from the cellular to the
CO 5	Training the students with all the required knowledge and skills in regards to life regulating Process.

Paper No. 402 Biochemistry and Endocrinology	
CO 1	To understand digestion and absorption of protein, carbohydrate & lipids.
CO 2	To understand fat bodies, structure, physiology biochemistry, function of fatty acid
CO 3	To study Structure and function of various endocrine glands
CO 4	To understand disease caused due to imbalance of hormones
CO 5	To study the control and co-ordination of endocrine system

Third Year

Paper No. 501 Ecology	
CO 1	Discerning the knowledge of Ecological systems at different spatial and temporal level
CO 2	Perceiving the types of abiotic and biotic factors, its effect on the distribution, dispersal, and behavior of organisms.
CO 3	Develop deeper understanding of food chains and food webs, ecological pyramids.
CO 4	Describe the ecological successions and various ecosystems.
CO 5	To measure the population in ecology using various criteria

Paper No 502 Parasitic Protozoa and Helminthes I	
CO 1	Introducing parasitology by studying types of parasites and host parasite relationship
CO 2	Describe and study Classification of Protozoan parasites
CO 3	Understanding structure life cycle of Protozoan parasites
CO 4	Understanding pathogenicity and control measures of different parasitic protozoans
CO 5	To study control measures of protozoan parasites

Paper No. 601 Evolution	
CO 1	Understand the evidences of evolution through different theories.
CO 2	Role of genetics in evolution, Hardy-Weinberg law its application.
CO 3	Awareness of environment, natural elemental forces in evolution.
CO 4	Through knowledge of the process of speciation.
CO 5	Role of heredity and variation in evolution

Paper No 602 Parasitic Protozoa and Helminthes I	
CO 1	Describe and study Classification of helminth parasite
CO 2	Observing microscopic structures of various Helminthe parasite
CO 3	Learning techniques of collection preservation staining and identification of trematode parasite
CO 4	Learning techniques of collection preservation staining and identification of cestode parasite
CO 5	Learning techniques of collection preservation staining and identification of nematode parasite

Programme Outcomes

PO 1	Solve the problem and also think methodically independently and draw a logical conclusion.
PO 2	Demonstrate, solve and an understanding of major concepts in all disciplines of major Concepts in all disciplines of zoology.
PO 3	Understand origin and history of life
PO 4	Understand the evolution, history of phylum.
PO 5	Create an awareness of the impact of Zoology on the environment, society and development Outside the scientific community
PO 6	To study and understand the classification of whole phyla includes in non-chordates with the Help of charts, models and pictures.
PO 7	To study and understand the classification of whole phyla includes in chordates with the Help of charts, models and pictures.
PO 8	To inculcate the scientific temperament in the students and outside the scientific community.
PO 9	Use modern techniques, decent equipment and zoology software's.
PO 10	To study Control measures and pathogenicity of newly emerging disease
PO 11	To study the genetics and understand the genetical problems with there effects on human body
PO 12	Make students able to aware people against superstition and build scientific approach in society

Programme Specific Outcomes

PSO 1	Given the knowledge of zoology through theory and practical.
PSO 2	Use modern Zoological tools, models, charts, and Equipment.
PSO 3	To understand good laboratory practical and safety
PSO 4	To develop research-oriented skills.

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