Janata Shikshan Sanstha's

Kisan Veer Mahavidyalaya, Wai

Department of Zoology

Course Outcome 2024-25

BSc. 3

Course Outcome (COs): Comparative Anatomy of Vertebrates	1. understand the concept and importance of anatomy 2. Enable the students to identify the similarities and differences among the animals in different body systems 3. Understand morphology and working of human body systems 4. equip the students with the skills of dissection
Course Outcome (COs): Cell biology and Biotechnology	1. understand the general organization of cell organelles and their functions and Biotechnology. 2. apply their knowledge to study the functioning of a cell and cell divisions and its regulation. 3. analyze the role of cell organelles like DNA and RNA . 4. equip the students with skills like handling the microscope, micrometry, staining techniques, etc.
Course Outcomes (COs): Biotechniques and Biostatistics	1. understand production of transgenic animals. 2. apply their knowledge to draw the genetic crosses based on patterns of heredity.

	3. Apply use of transgenic animals in production of medicine and pharmaceuticals. 4. enable the students to develop use of biostatistics in research and daily life understand mean mode median.
Course Outcomes (COs): Aquatic Biology	1. understand the basic concepts. 2. enable the students to identity aquatic biomes in river, eshuries, ocean, coral reefs 4.Mould the student for apply knowledge on fresh water biology physiochemical and biological parameters 5. Understand the student for faunal adaptation and water pollution
Course Outcomes (Cos): Developmental biology	1. The objective of this course is to provide a comprehensive understanding of the concepts of early animal development. 2.Students taking this course must develop a critical appreciation of methodologies specifically used to study the process of embryonic development in animals. 3.In this course a particular model system will not be discussed in detail. Instead, different concepts of animal development will be elaborated in one model system or the other. 4.The concepts are taught the students will be made familiar with different approaches that

	have been used to study such concepts. Further topics that will be discussed are stem cells and regeneration, the developmental basis of diseases as well as the developmental mechanisms of evolutionary change.
Course Outcomes (Cos Immunology	1.To promote critical thinking among students 2 to provide students with a foundation in immunological processes 3to provide students with knowledge on how the immune system works building on their previous knowledge from biochemistry, genetics, cell biology and microbiology 4 be able to clearly state the role of the immune system 5 be able to compare and contrast the innate versus adaptive immune systems 6 be able to articulate the roles of innate recognition receptors (i.e. Toll-Like Receptors) in immune responses 7 be able to compare and contrast humoral versus cell-mediated immune responses 8 be able to distinguish various cell types involved in immune responses and associated functions 9 be able to distinguish and characterize CD4+ T helper cell lineages Th1, Th2, Th17, and

	regulatory T cell (Treg) 10 be able to distinguish and characterize antibody isotypes, development, and functions 11 understand the role of cytokines in immunity and immune cell activation; and be able to identify and characterize cytokines of particular immune importance 12 understand the significance the Major Histocompatibility Complex in terms of immune response and transplantation 13 be able to describe lymphocyte development and the expression of their receptors. 14 be able to provide an overview of the interaction between the immune system and pathogens.
Course Outcomes (Cos): Applied Zoology	1.Understands processes of fisheries, sericulture, along with crop pest management techniques 2.Students gain knowledge about various disease related vectors and their impact on human 3.Understands concepts of apiculture, poultry, dairy along with tissue and cell culture techniques

Course Outcomes (Cos): Animals physiology	1.Understanding of relationships between organisms through Systematics and cell biology 2.Understand type study 3.Understand mammalian physiology 4. Understand muscle and endocrine glands in human body.

Head
Department of Zoology
Kisan Veer Mahavidyalaya,
Wai 412803