

Govt. Pt. Shyama charan shukla College, Dharsiwa Raipur (C.G.)
Department of Zoology
Course Outcome

B.Sc Ist PAPER - I Animal Diversity – Invertebrates & Vertebrates

- CO 1.** Describe general taxonomic rules on animal classification Phylum Protozoa porifera with taxonomic keys.
- CO 2.** Describe. Phylum coelenterate, platyhelminthes, nematode and give example of pathogenic nematods.
- CO 3.** Describe. Phylum annelida ,arthropoda, molluca General Characteristics & Classification of invertebrates
- CO 4.** . Describe. Phylum echinodermata , Classify phylum Protochordates to Mammalia
- CO 5.** Comparative knowledge of Integumentary, Digestive, Circulatory, Urinogenital, Nervous and Skeletal system of various classes of vertebrates.

B.Sc Ist PAPER – II (VERTEBRATES & EMBRYOLOGY)

- CO 1.** Division aspects of basic unit of life i.e. cell.
- CO 2.** . Basic concepts of developmental biology
- CO 3.** Concept of hormonal regulation and the functioning of nerves and muscles, endocrine system and reproductive
- CO 4.** Students are taught the detailed concepts of integuments ,skeleton, digestive,circulatory system ,
- CO 5.** Seeks to understand the mechanisms that work to keep the animal body alive and functioning.

B.Sc 2ND PAPER – I ANATOMY & PHYSIOLOGY

- CO 1.** Comparative knowledge of Integumentary, Digestive, Circulatory, Urinogenital,Nervous and Skeletal system of various classes of vertebrates.
- CO 2.** Describe the endoskeleton system circulatory system and urinogenital system in vertebrates
- CO 3.** Describe the nerve system ,structure and function of ear and eye ,gonads and there genital duct
- CO 4.** describe the physiological activities heart and there function, blood coagulation , respiration.
- CO 5.** Students are taught the detailed concepts of digestion, respiration, excretion, the functioning of nerves and muscles, cardiovascular system, endocrine system and reproductive .

B.Sc 2ND PAPER – II VERTEBRATE ENDOCRINOLOGY, REPRODUCTIVE BIOLOGY BEHAVIOUR, EVOLUTION AND APPLIED ZOOLOGY

CO 1. Students learn the concepts of endocrine systems and homeostasis and hormonal disorders.

CO 2. Describe the reproductive cycles in vertebrates

many physiological mechanisms menstruation lactation

pregnancy etc and hormonal regulation of

gametogenesis.

CO 3. Theories of evolution and knowledge of evolution of species

CO 4. Describe the ethological pattern in vertebrates and their theory with example

CO 5. Knowledge about honey bee, silk worm rearing, prawn culture, poultry keeping Understands concepts of fisheries, fishing tools and site selection and pest control

B.Sc 3RD PAPER – I (Ecology, Environmental-biology; Toxicology ; Microbiology and Medical Zoology)

CO 1. Describe the ecological contents major and minor ecosystem, biogeochemical cycle, kind of pollutions, ecological successions

CO 2. Describe the environmental laws, food chain food web in ecosystem conservations of natural resources, EIA

CO 3. Describe and classify toxicology and the toxic agents and their toxicity, animal poisons, food poisoning environment degradation, issues and health hazards like personal and mental hygiene

CO 4. Describe the microbiology to different areas, how to apply in many areas like – industries, water treatment.

CO 5. Understands about parasites and epidemiology of parasites in human and animals **CO 3.** Concept of environment degradation, issues and health hazards like personal and mental hygiene

B.Sc 3RD PAPER – II (Genetics, Cell Physiology, Biochemistry, Biotechnology And Biotechniques)

CO 1. Understanding of basic concepts of genetics and laws of inheritance Concept behind genetic disorder, gene mutations- various causes associated with inborn errors of metabolism.

CO 2. Physiological and biochemical understanding through scientific enquiry into the nature of mechanical, physical, and biochemical functions of animals, their organs, and the cells of which they are composed. Interactions and interdependence of physiological and biochemical processes.

CO 3. Students are taught the detailed concepts of digestion, respiration, excretion, the functioning of nerves and muscles, cardiovascular system, endocrine system and reproductive system. **CO 4.**

CO 3. Use of recombinant DNA technology in genetic manipulations and in a variety of industrial processes.

CO 5. To describe the biotechniques tools :- pH meter, colorimeter, microscopy, centrifuge, electrophoresis.