



P.P.N. (P.G.) College, Kanpur

96@12 Mahatma Gandhi Marg, Kanpur -208001

•Telefax: (0512)2361924 • Website: www.ppncollege.org•

•email: ppncollegekanpur@gmail.com•

Date: 01/05/2023

PG ZOOLOGY

COURSE OUTCOMES (COs)

FIRST YEAR

SEMISTER-I

COURSE: Non-Chordata

CODE: B050701T

THEORY

CREDITS: 04

CO1 - After completion of this course students will able to identify diverse group of non-chordates, evolutionary relationship among non- Chordates,

CO2 –They will have information about diseases caused by nematodes in plants and animals.

COURSE TITLE: Biosystemics and Evolutionary Biology

CODE: B050702T

THEORY

CREDITS: 04

CO1 - At the completion of their course, students will be able to classify animals and methods of classification.

CO2 – They will have clarity how animals evolved, factors responsible for evolution.

COURSE TITLE: Cell Biology and Genetics.

CODE: B050703T

THEORY

CREDITS: 04

CO1 - At the completions of this course students will understand cells at molecular level.

CO2 – They will understand principles of genetics and basic concepts of recombinant DNA technology.



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COURSE TITLE: Quantitative Biology, Research Methodology CODE: B050704T

and Bioinstrumentation.

THEORY

CREDITS: 04

CO1 - At the completion of this course students will be able to analyze various biological data using statistics.

CO2 - They will understand various techniques used in biology such as microscopy, spectrophotometry, centrifugation, chromatography, electrophoresis, immunotechniques, electrophysiological methods.

COURSE: Practical

CODE: B050705P

PRACTICAL

CREDITS: 04

CO1 - At the completion of this course, students will be able to do Lab techniques like slide preparation, microtomy, quantitative analysis of date.

CO2 - They will learn use of microscope, Chromatography, electrophoresis, pH meter, photo spectrometry, study of human karyotypes.

FIRST YEAR

SEMISTER-II

COURSE TITLE: Chordata

CODE: B050801T

THEORY

CREDITS: 04

CO1 - After completion of the course the student will be able to understand diversity of Chordates, its identification.

CO2 - They will learn evolutionary relationships among animals.

COURSE TITLE: Animal Physiology and Biochemistry

CODE: B050802T

THEORY

CREDITS: 04

CO1 - After completion of the course, the students will understand the various physiological and biochemical processes in animals



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CO2 – They will have knowledge about abnormalities and diseases associated with physiological and biochemical processes.

COURSE TITLE: Reproductive and Developmental Biology

CODE: B050803T

THEORY

CREDITS: 04

CO1 - Students will be able to understand various aspects of reproductive development and developmental process in human and other animals.

COURSE TITLE: Aquaculture

CODE: B050807T

THEORY

CREDITS: 04

CO1 - Students will learn breeding and management of various economically important aquatic animals.

CO1 - They can initiate their own start-up to cultivate economically important aquatic animals.

COURSE TITLE: Practical

CODE: B050808P

THEORY

CREDITS: 04

CO1 - Students will be able to identify various chordates, dissection of various organs and systems.

CO2 - They will learn various physiological, biochemical techniques and culturing of aquatic animals.



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SECOND YEAR

SEMISTER-III

COURSE TITLE: Ethology, Biodiversity and wildlife conservation CODE: B050901T

THEORY

CREDITS: 04

CO1 - Students will learn various aspects of behaviour and learning in animals.

CO2 – They will have clear understanding of biodiversity and conservation of wild life.

COURSE TITLE: Molecular Biology, Immunology and Bioinformatics CODE: B050902T

THEORY

CREDITS: 04

CO1 - Students will learn various aspects of DNA, gene expression and its regulation.

CO2 - They will have clear concept of cancer, immunology and analysis of data by bioinformatics.

COURSE TITLE: Waste Management & Sustainable Development. CODE: B050903T

THEORY

CREDITS: 04

CO1 - Students will understand management of various waste such as hospital, industrial, household.

CO2 – They will have clear concept of Sustainable development.

COURSE TITLE: Environmental Biology

CODE: B050909T

THEORY

CREDITS: 04

CO1 - Students will understand concepts of ecosystem, population ecology.

CO2 – They will learn degradation of environment.



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COURSE TITLE: Practical

CODE: B050911P

PRACTICAL

CREDITS: 04

CO1 - Students will do experiments on behaviour of animals.

CO2 – They will do practical related with DNA, various immunotechniques and testing on environmental factors.

SECOND YEAR

SEMISTER-IV

COURSE TITLE: Ecology & Toxicology

CODE: B051001T

THEORY

CREDITS: 04

CO1 - Students will understand concept of Ecology, structure and function of ecosystem, biological interactions.

CO2 – They will have environmental pollution, toxicants and its effects.

COURSE TITLE: Public Health and Hygiene

CODE: B051002T

THEORY

CREDITS: 04

CO1 - Students will understand personal hygiene, nutrient deficiency diseases, non-communicable disease and cure, communicable & contagious disease.

CO2 - Students can get job in Hospital as diet adviser or in social medicine.

COURSE TITLE: Biotechnology

CODE: B051005T

THEORY

CREDITS: 04

CO1 - Students will learn techniques of Biotechnology.

CO2 - They will have knowledge its application in Veterinary , human health and Bioethics.



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COURSE TITLE: Applied Environmental Biology

CODE: B051010T

THEORY

CREDITS: 04

CO1 - Students will be able to understand natural resources and degradation of natural resources, climate change, pollution and conservation of wildlife.

CO2 - Student may get a job as environmental adviser.

COURSE TITLE: Practical

CODE: B051012P

PRACTICAL

CREDIT: 04

CO1_- Students will learn tools to study ecosystem, analysis of toxicants, and measurement of climatic variables.

CO2 – They will learn techniques of Biotechnology.

HOD
Dept. of Zoology

Convener
NAAC

Convener
IQAC

Principal
PPN PG College
PT. PRITHI NATH (P.G.) COLLEGE
KANPUR