

Programme outcome, Programme Specific outcome
and Course Outcome of B.Sc. Zoology

Program Outcomes of B.Sc.

PO1: Demonstrate thorough and in-depth knowledge of at least one discipline in the sciences, by applying discipline-specific expertise and problem-solving skills.

PO2: Display a thorough understanding of the scientific method, like undertaking data analysis using qualitative and quantitative methods

PO3: Represent a commitment to the development of a scientific temper in the society

PO4: Develop an innovative model of thought and serve as a bridge between academia and industry-linked R&D

PO5: Perform tasks with impeccable professional ethics.

PO6: Commitment to inter-disciplinary thinking and innovation.

Program Specific Outcome B.Sc. Zoology (Honours)

PSO 1: Demonstrate a clear understanding of basic non-chordate classification schemes, and of nucleic acids and cell organelles

PSO 2: Display a thorough knowledge of anatomy, morphology, physiology and ethology of various non-chordates in general, and some representative animals specifically, and of genetic phenomena that go on at the molecular level of the cell

PSO 3: Analyze various aspects of the cell cycle, apoptosis, cancer and cell signalling

PSO 4: Become technically competent in order to: * Identify and discuss whole mounts of various protozoa * Stain and mount various gut parasites of specific animal model prescribed * Get a basic understanding of certain universal molecular biology techniques * Demonstrate a broad understanding of specific chromosome types * Quantify genomic DNA, run agarose gels, and histologically stain DNA and RNA * Do anatomical studies of various organ systems of specific animal model prescribed * Demonstrate a broad understanding of various meiotic stages from specific organ system of prescribed animal and plant models * To prepare permanent slides in order to identify Barr body, DNA and cell viability from prescribed animal models

Programme Outcome and Programme Specific Outcome Mapping

	PSO1	PSO2	PSO3	PSO4
PO1				
PO2				
PO3				
PO4				
PO5				
PO6				

Outline Structure of CBCS Curriculum for Zoology (Honours)

Calcutta University

CC 1 Non Chordata – I (Protists to Pseudocoelomates)

CC 2 Molecular Biology

CC 3 Non Chordata – II (All Coelomate Phyla)

CC 4 Cell Biology

CC 5 Chordata

CC 6 Animal Physiology: Controlling & Co-ordinating System

CC 7 Fundamentals of Biochemistry

SEC A (1) Apiculture / Sericulture

SEC A (2) Apiculture / Sericulture

CC 8 Comparative Anatomy of Vertebrate

CC 9 Animal Physiology: Life sustaining system

CC 10 Immunology

SEC- B(1) Aquarium Fisheries

SEC- B(2) Medical Diagnosis

CC 11 Ecology

CC 12 Principle of Genetics

DSE A(1) Parasitology

DSE A(2) Biology of Insect

DSE B (1) Endocrinology

DSE B (2) Reproductive Biology

CC 13 Developmental Biology

CC 14 Evolutionary Biology

DSE A (1) Animal Biotechnology

DSE A (2) Animal Cell Biotechnology

DSE B (1) Animal Behaviour & Chronology

DSE B (2) Fish & Fisheries

Abbreviations:

CC: Core Course

**DSE A/B: Discipline Specific
Elective A/B**

**SEC A/B: Skill Enhancement
Course**

Course Outcome and Programme Specific Outcome Mapping

	PSO1	PSO2	PSO3	PSO4
CC1				
CC2				
CC3				
CC4				
CC5				
CC6				
CC7				
SEC A(1)				
SEC A(2)				
CC8				
CC9				
CC10				
SEC B(1)				
SEC B(2)				
CC11				
CC12				
DSE A1				
DSE A2				
DSE B1				

DSE B2				
CC13				
CC14				
DSE A1				
DSE A2				
DSE B1				
DSE B2				