

# Post-Graduate Govt. College for Girls, Sector-42, Chandigarh

## Teaching Plan (Odd Semester) Session: 2023-24

Class: B.Sc.- II (Semester 3<sup>rd</sup>)

Name of the Teacher: Dr. Rashmi Kohli

Subject: ZOOLOGY

Paper:(Paper A+B)

Room No. - 126 (for Theory) & Zoology Lab. (for Practical)

S. No.	DATES	TOPICS TO BE COVERED
Week-1	21-07-2023 to 22-07-2023	Introduction to the syllabus
Week-2	24-07-2023 to 28-07-2023	Introduction to Chordates
Week-3	31-07-2023 to 05-08-2023	Basic characters of chordates, parental care, migration
Week-4	07-08-2023 to 12-08-2023	Introduction to Phylum Urochordata, different systems of Herdmania.
Week-5	14-08-2023 to 19-08-2023	Herdmania continued. Cyclostomes- introduction. Paper B- Introduction to Biochemistry
Week-6	21-08-2023 to 26-08-2023	Carbohydrates- their functions, structure and classification.
Week-7	28-08-2023 to 02-09-2023	Proteins- their functions, structure and classification.
Week-8	04-09-2023 to 09-09-2023	Fats- their functions, structure and classification.
Week-9	11-09-2023 to 16-09-2023	Introduction to Phylum Cephalochordata, different systems.
Week-10	18-09-2023 to 23-09-2023	Pisces- Introduction, different systems.
Week-11	25-09-2023 to 30-09-2023	Digestive, Respiratory systems
Week-12	03-10-2023 to 07-10-2023	Circulatory System
Week 13	09-10-2023 to 14-10-2023	Enzymes and carbohydrate metabolism.

Mid Semester Exams (16 <sup>th</sup> October,2023 - 21 <sup>st</sup> October, 2023)			
Week-15	25-10-2023 to 27-10-2023	Amphibians- Introduction	
Week-16	31-10-2023 to 04-11-2023	Amphibians: Different systems	
Week-17	06-11-2023 to 11-11-2023	Concepts of Evolution	
Week-18	14-11-2023 to 18-11-2023	Theories of Evolution.	

# Post-Graduate Govt. College for Girls, Sector-42, Chandigarh

## Teaching Plan (Odd Semester) Session: 2023-24

Class: B.Sc.- III (Semester 5<sup>th</sup>)

Name of the Teacher: Dr. Rashmi Kohli

Subject: ZOOLOGY

Paper:(Paper A)

Room No. - 126 (for Theory) & Zoology Lab. (for Practical)

S. No.	DATES	TOPICS TO BE COVERED
Week-1	21-07-2023 to 22-07-2023	Introduction of Syllabus
Week-2	24-07-2023 to 28-07-2023	Introduction to developmental Biology
Week-3	31-07-2023 to 05-08-2023	Gametogenesis-Spermatogenesis, role of hormones in gametogenesis
Week-4	07-08-2023 to 12-08-2023	Oogenesis, vitellogenesis
Week-5	14-08-2023 to 19-08-2023	Egg membranes, polarity of egg
Week-6	21-08-2023 to 26-08-2023	Fertilization
Week-7	28-08-2023 to 02-09-2023	Parthenogenesis
Week-8	04-09-2023 to 09-09-2023	Cleavage patterns, Blastula
Week-9	11-09-2023 to 16-09-2023	Development upto germ layers- Herdmania
Week-10	18-09-2023 to 23-09-2023	Development upto germ layers- Amphioxus
Week-11	25-09-2023 to 30-09-2023	Development upto germ layers- frog
Week-12	03-10-2023 to 07-10-2023	Development upto germ layers- Chick
Week 13	09-10-2023 to 14-10-2023	Continued: Development of Chick

**Mid Semester Exam (16<sup>st</sup> October 2023 – 21<sup>st</sup> October 2023)**

Week-15	25-10-2023 to 27-10-2023	Development upto germ layers- Rabbit
Week-16	31-10-2022 to 04-11-2023	Induction, cell to cell introduction, organizers and inducers.
Week-17	06-11-2023 to 11-11-2023	Foetal membranes, types of placenta, metamorphosis of Herdmania,
Week 18	14-11-2023 to 18-11-2023	Metamorphosis of Frog, Revision

**Post-Graduate Govt. College for Girls, Sector-42, Chandigarh**  
**Teaching Plan (Odd Semester) Session: 2023-24**

**Class: B.Sc.- III**

**Name of the Teacher: Dr. SANJAY KUMAR JHA**

**Subject: ZOOLOGY**

**Paper: B.Sc.- III (Paper- B; Option-iii)**

**Room No.- 126 (for Theory) & Zoology Lab. (for Practical)**

S. No.	DATES	TOPICS TO BE COVERED
Week-1	21-07-2023 to 22-07-2023	B.Sc.- III: Introduction to Inland Fisheries & Aquaculture.
Week-2	24-07-2023 to 28-07-2023	B.Sc.- III: Concept of Aquaculture in Culture & Capture fishery.
Week-3	31-07-2023 to 05-08-2023	B.Sc.- III: Extensive, Intensive & Semi-Intensive Aquaculture, Pen culture and Cage culture.
Week-4	07-08-2023 to 12-08-2023	B.Sc.- III: Various components of Aquaculture.
Week-5	14-08-2023 to 19-08-2023	B.Sc.- III: Morphology of some typical fishes (Catla, Catfish, Eel & Perch).
Week-6	21-08-2023 to 26-08-2023	B.Sc.- III: Induced Breeding Technique.
Week-7	28-08-2023 to 02-09-2023	B.Sc.- III: Characters of various Culturable fishes – IMCs, Saltwater fishes, Exotic fishes and Air-breathing fishes.
Week-8	04-09-2023 to 09-09-2023	B.Sc.- III: Bionomics of <i>Labeo rohita</i> , <i>Catla catla</i> , <i>Cirrhinus mrigala</i> and <i>Wallago attu</i> .
Week-9	11-09-2023 to 16-09-2023	B.Sc.- III: Structure of mouth of different fishes in relation to their feeding habits.
Week-10	18-09-2023 to 23-09-2023	B.Sc.- III: Food value of a fish (Vitamins, Amino acids, and Minerals).
Week-11	25-09-2023 to 30-09-2023	B.Sc.- III: Exotic fishes- History, Introduction & Morphology.
Week-12	03-10-2023 to 07-10-2023	B.Sc.- III: Exotic fishes- Their role in fish culture and various impact on native fish fauna.
Week-13	09-10-2023 to 14-10-2023	B.Sc.- III: Pond Culture: Construction of pond and Types of pond.
<b>Mid Semester Exam (16<sup>th</sup> October 2023 - 21<sup>st</sup> October, 2023)</b>		

Week-15	25-10-2023 to 27-10-2023	B.Sc.- III: Pond Culture: Hydrological factors of water and soil of a fish pond, fertilization of pond and its maintenance.
Week-16	31-10-2023 to 04-11-2023	B.Sc.- III: Aquatic weeds and their control (both biological and chemical).
Week-17	06-11-2023 to 11-11-2023	Revision and Completion of remaining topics...!
Week-18	14-11-2023 to 18-11-2023	Revision & Mock Tests.

# Post-Graduate Govt. College for Girls, Sector-42, Chandigarh

## Teaching Plan (Odd Semester) Session: 2023-24

**Class: B.Sc.- I (Semester 1<sup>st</sup>)**

**Name of the Teacher: Dr. SANJAY KUMAR JHA**

**Subject: ZOOLOGY**

**Paper: (Paper A+B)**

**Room No. - 126 (for Theory) & Zoology Lab. (for Practical)**

S. No.	DATES	TOPICS TO BE COVERED
Week-1	21-07-2023 to 22-07-2023	No classes due to Admission process going on.
Week-2	24-07-2023 to 28-07-2023	Introduction to Invertebrates, various Phylum and representative organisms along with their characteristic features.
Week-3	31-07-2023 to 05-08-2023	Introduction to Phylum Platyhelminthes. General type study of <i>Fasciola hepatica</i> (the liver fluke).
Week-4	07-08-2023 to 12-08-2023	General type study of <i>Taenia solium</i> (the pork tape worm).
Week-5	14-08-2023 to 19-08-2023	Introduction to Phylum Aschelminthes and General type study of <i>Ascaris lumbricoides</i> (the roundworm).
Week-6	21-08-2023 to 26-08-2023	Introduction to Phylum Protozoa. General types study of <i>Amoeba proteus</i> .
Week-7	28-08-2023 to 02-09-2023	General type study of <i>Paramecium caudatum</i> . General type study of <i>Plasmodium vivax</i> .
Week-8	04-09-2023 to 09-09-2023	Introduction to Phylum Porifera and General type study of <i>Scypha</i> .
Week-9	11-09-2023 to 16-09-2023	Introduction to Phylum Coelenterata and General type study of <i>Obelia</i> .
Week-10	18-09-2023 to 23-09-2023	Introduction to Phylum Annelida and General type study of <i>Pheretima posthuma</i> (the earthworm).
Week-11	25-09-2023 to 30-09-2023	Introduction to Microscopy (Light and Electron Microscopes); Various types of Staining techniques.
Week-12	03-10-2023 to 07-10-2023	Introduction to Cell Biology and Various types of Cell Organelles. Study of Cell Membrane, Fluid Mosaic Model concept.
Week-13	09-10-2023 to 14-10-2023	Study of Mitochondria and its functions as Power House of the cell; Study of Endoplasmic Reticulum and their types and various functions; Study of Golgi Complex, its components and functions.
<b>Mid Semester Exam (16<sup>th</sup> October 2023 – 21<sup>st</sup> October, 2023)</b>		

Week-15	25-10-2023 to 27-10-2023	Study of Lysosomes and Ribosomes and their types and various functions; Study of Nucleus, Nucleosomes, its structure and functions.
Week-16	31-10-2023 to 04-11-2023	Study of Cancer cells, Oncogenes and its various properties functions.
Week-17	06-11-2023 to 11-11-2023	Study of Immune System and the various types of cells involved in providing immunity; Antigens and Antibodies.
Week-18	14-11-2023 to 18-11-2023	Immunoglobulins and its types, functions and properties of Immunity. Revision of all chapters.