

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

## Teaching Plan (Odd Semester) Session: 2021-22

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	1-09-2021 to 04-09-2019	No classes due to Admission process going on.
Week-2	06-09-2021 to 11-09-2021	No classes have been started because Student's group not formed.
Week-3	13-09-2021 to 18-09-2021	Introduction to Invertebrates, various Phylum and representative organisms along with their characteristic features.
Week-4	20-09-2021 to 25-09-2021	Introduction to Phylum Platyhelminthes. General type study of <i>Fasciola hepatica</i> (the liver fluke).
Week-5	27-09-2021 to 01-10-2021	General type study of <i>Taenia solium</i> (the pork tape worm). Introduction to Phylum Protozoa. General types study of <i>Amoeba proteus</i> .
Week-6	04-10-2021 to 09-10-2021	General type study of <i>Paramaecium caudatum</i> . General type study of <i>Plasmodium vivax</i> .
Week-7	11-10-2021 to 16-10-2021	Introduction to Phylum Porifera and General type study of <i>Scypha</i> .
Week-8	18-10-2021 to 19-10-2021	Introduction to Phylum Coelenterata and General type study of <i>Obelia</i> .
<b>Mid Semester Exam (21<sup>st</sup> October 2021 - 30<sup>th</sup> October 2021)</b>		
Week-9	01-11-2021 to 06-11-2021	Introduction to Phylum Aschelminthes and General type study of <i>Ascaris lumbricoides</i> (the roundworm).
Week-10	08-11-2021 to 13-11-2021	Introduction to Phylum Annelida and General type study of <i>Pheretima posthuma</i> (the earthworm).
Week-11	15-11-2021 to 20-11-2021	Introduction to Microscopy (Light and Electron Microscopes); Various types of Staining techniques.

Week-12	22-11-2021 to 27-11-2021	Introduction to Cell Biology and Various types of Cell Organelles. Study of Cell Membrane, Fluid Mosaic Model concept; Study of Mitochondria and its functions as Power House of the cell.
Week-13	29-11-2021 to 04-12-2021	Study of Endoplasmic Reticulum and their types and various functions; Study of Golgi Complex, its components and functions.
Week-14	06-12-2021 to 11-12-2021	Study of Lysosomes and Ribosomes and their types and various functions; Study of Nucleus, Nucleosomes, its structure and functions.
Week-15	13-12-2021 to 16-12-2021	Study of Cancer cells, Oncogenes and its various properties functions; Study of Immune System and the various types of cells involved in providing immunity; Antigens and Antibodies, Immunoglobulins and its types, functions and properties of Immunity.

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

## Teaching Plan (Odd Semester) Session: 2021-22

Class: B.Sc.- III

Name of the Teacher: Dr. SANJAY KUMAR JHA

Subject: ZOOLOGY

Paper: B.Sc.- III (Paper- B)

Room No.- 126, 218 (Theory) & Zoology

S. No.	DATES	TOPICS TO BE COVERED
Week-1	11-08-2021 to 14-08-2021	B.Sc.- III: Introduction to Inland Fisheries & Aquaculture.
Week-2	16-08-2021 to 21-08-2021	B.Sc.- III: Concept of Aquaculture in Culture & Capture fishery.
Week-3	23-08-2021 to 28-08-2021	B.Sc.- III: Extensive, Intensive & Semi-Intensive Aquaculture, Pen culture and Cage culture.
Week-4	31-08-2021 to 04-09-2019	B.Sc.- III: Various components of Aquaculture.
Week-5	06-09-2021 to 11-09-2021	B.Sc.- III: Morphology of some typical fishes (Catla, Catfish, Eel & Perch).
Week-6	13-09-2021 to 18-09-2021	B.Sc.- III: Induced Breeding Technique.
Week-7	20-09-2021 to 25-09-2021	B.Sc.- III: Characters of various Culturable fishes – IMCs, Saltwater fishes, Exotic fishes and Air-breathing fishes.
Week-8	27-09-2021 to 01-10-2021	B.Sc.- III: Bionomics of <i>Labeo rohita</i> , <i>Catla catla</i> , <i>Cirrhinus mrigala</i> and <i>Wallago attu</i> .
Week-9	04-10-2021 to 09-10-2021	B.Sc.- III: Structure of mouth of different fishes in relation to their feeding habits.
Week-10	11-10-2021 to 16-10-2021	B.Sc.- III: Food value of a fish (Vitamins, Amino acids, and Minerals).
Week-11	18-10-2021 to 19-10-2021	B.Sc.- III: Exotic fishes- History, Introduction & Morphology.
Mid Semester Exam (21 <sup>st</sup> October 2021 - 30 <sup>th</sup> October 2021)		

Week-12	01-11-2021 to 06-11-2021	B.Sc.- III: Exotic fishes- Their role in fish culture and various impact on native fish fauna.
Week-13	08-11-2021 to 13-11-2021	B.Sc.- III: Pond Culture: Construction of pond and Types of pond.
Week-14	15-11-2021 to 20-11-2021	B.Sc.- III: Pond Culture: Hydrological factors of water and soil of a fish pond, fertilization of pond and its maintenance.
Week-15	22-11-2021 to 27-11-2021	B.Sc.- III: Aquatic weeds and their control (both biological and chemical).
Week-16	29-11-2021 to 30-11-2021	Revision in both Classes/ Completion of remaining topics....!

**PG.GOV'T COLLEGE FOR GIRLS, SECTOR-42, CHANDIGARH**

**Teaching Plan Odd Semester (For Ongoing Classes UG-PG)**

**Session (2021-2022)**

**Class: B.Sc II nd, B.Sc IIIrd Year**

**Name of the Teacher:Dr. Rashmi Kohli**

**Subject: Zoology**

**Paper :B.Sc IIInd-Paper A,B**

**B.Sc IIIrd-Paper A**

**Room No : 126**

<b>S. No</b>	<b>Dates</b>	<b>Topics to be covered</b>
Week 1	11-08-2021 to 14-08-2021	B.Sc IIInd- Introduction to chordates  B.Sc IIIrd- Introduction to sexual reproduction
Week 2	16-08-2021 to 21-08-2021	B.Sc IIInd- Comparison of chordates with Non Chordates chordates  B.Sc IIIrd- Introduction to gametogenesis
Week 3	23-08-2021 to 28-08-2021	B.Sc IIInd- Herdmania: Introduction, Digestive system, Respiratory system, Nervous system, sense organs.  B.Sc IIIrd- Spermatogenesis
Week 4	31-08-2021 to 04-09-2019	B.Sc IIInd- Herdmania: Circulatory system, Excretory system, Reproductive system, Metamorphosis of larvae  B.Sc IIIrd- Differentiation of spermatozoa
Week 5	06-09-2021 to 11-09-2021	B.Sc IIInd- Origin of life  B.Sc IIIrd- Oogenesis
Week 6	13-09-2021 to 18-09-2021	B.Sc IIInd- Introduction to biochemistry, Carbohydrates, classification and functions  B.Sc IIIrd- Vitellogenesis, role of follicle/subtesticular cells in gametogenesis
Week 7	20-09-2021 to 25-09-2021	B.Sc IIInd- Introduction to biochemistry, proteins, fats classification and functions  B.Sc IIIrd- egg membranes, polarity of egg, fertilization
Week 8	27-09-2021 to	B.Sc IIInd- Introduction to nucleic acids, enzymes, EMP pathway,

	01-10-2021	TCA cycle, HMP shunt, glycogenesis, glycogenolysis B.Sc IIIrd- Parthenogenesis, cleavage patterns, fate maps
Week 9	04-10-2021 to 09-10-2021	B.Sc IIInd- Cephalochordates- Digestive, Respiratory, circulatory system. B.Sc IIIrd- Juxtacrine, paracrine, gap junctions, determination and differentiation.
Week 10	11-10-2021 to 16-10-2021	B.Sc IIInd- Theories and evidences of evolution B.Sc IIIrd- Development of Herdmania
Week 11	18-10-2021 to 19-10-2021	B.Sc IIInd- Cyclostomes B.Sc IIIrd- Development of Amphioxus
<b>Mid Semester Exam (21<sup>st</sup> October 2021 – 30<sup>th</sup> October 2021)</b>		
Week 12	01-11-2021 to 06-11-2021	B.Sc IIInd- Labeo –Digestive, respiratory, circulatory, reproductive system, Scales B.Sc IIIrd- Development of Chick
Week 13	08-11-2021 to 13-11-2021	B.Sc IIInd- Amphibia- Digestive, respiratory, circulatory, reproductive system B.Sc IIIrd- Development of Rabbit
Week 14	15-11-2021 to 20-11-2021	B.Sc IIInd- Digestive System B.Sc IIIrd- Foetal membranes
Week 15	22-11-2021 to 27-11-2021	B.Sc IIInd- Respiratory system B.Sc IIIrd- Mammalian placenta, metamorphosis
Week 16	29-11-2021 to 30-11-2021	B.Sc IIInd-Circulatory System B.Sc IIIrd- Revision