SEMESTER LECTURE PLAN

Name of the College: Government College of Arts, Science and Commerce. Sanquelim - Goa

Name of Faculty: Ms. Mithali Halarnkar	**Subject:** Zoology	
Paper code: ZOO-200 Biology of Non-chordates	**Program: S.Y. BSc**	**Division: A**
Academic year: 2025 - 26	**Semester: III**	**Total Lectures: 15**

Course Objectives:

1. Imparting understanding of the body organization and general characteristics of various invertebrate phyla.
2. Understand characteristics unique to non-chordate phyla.
3. Appreciate the diversity within the invertebrate phyla.
4. Examine evolutionary patterns and adaptations within non-chordate taxa.

Expected Course Outcome: At the end of the course, students will be able to:

1. Explain the classification of Invertebrate phyla.
2. Discuss the body organization and general characters of different invertebrate phyla.
3. Understand the life cycles and reproductive strategies of non-chordate organisms.
4. Contrast the Habit and habitat of various invertebrates. Recognise the diversity among non-chordates

Month	Lecture From	Lecture To	No. of lectures allotted	Topic, Subtopic to be covered	Exercise/ Assignment	ICT Tools	Reference books
June-July	22/06/2025	28/06/2025	1	Annelida – General characteristics and classification upto classes;		Blackboard, Power point, You Tube	E. E. Ruppert and R. D. Barnes, Invertebrate Zoology, VIII Edition. Holt Saunders International Edition, 2006.

July	30/06/20 25	05/07/ 2025	1	Feeding structures in Annelids. Nereis (structural organizaton)			E.L Jordan and P. S. Verma, Invertebrate Zoology., S. Chand and Company, New Delhi 2001.
July	07/07/2025	12/07 /2025	1	Arthropoda - General characteristics and classification upto classes		Blackboard, Power point, You Tube, Google classroom	
July	14/07/2025	19/07 /2025	1	Arthropoda - classification upto classes, respiration in Arthropoda.			
July	21/07/2025	26/07/2025	1	Arthropoda - respiration in Arthropoda. Periplanata(structural organization)			
July August	28/07/2025	02/08/2025	1	Onychophora - General characteristics and evolutionary significance.		Blackboard, Power point, You Tube, Google classroom	E. E. Ruppert and R. D. Barnes, Invertebrate Zoology, VIII Edition. Holt Saunders International Edition, 2006. E.L Jordan and P. S. Verma, Invertebrate Zoology., S. Chand and Company, New Delhi 2001.
August	04/08/2025	09/08/2025	1	ISA 1			
August	11/08/2025	16/08/2025	1	Mollusca - General characteristics and classification up to classes;		Blackboard, Power point, You Tube	
August	18/08/2025	23/08/2025	1	shell types in Mollusca; nervous system in Mollusca. Paphia (structural organization)		Blackboard, Power point, You Tube, Google classroom	
Septem ber	01/09/2025	06/09/2025	1	ISA 2			
Septem ber	08/09/2025	13/09/2025	1	Echinodermata - General characteristics			
Septem ber	15/09/2025	20/09/2025	1	Echinodermata - classification			
Septem ber	22/09/2025	27/09/2025	1	Echinodermata - water vascular system in Asteroidea, symmetry		Blackboard, Power point,	

						You Tube, Google classroom	
September October	29/09/2025	04/10/2025	1	Echinoderms. Asterias (structural organization)			
October	06/10/2025	11/10/2025	1	ISA 3			
October	13/10/2025	18/10/2025	1	Hemichordata- Current evolutionary status. Balanoglossus (Structural organization)		Blackboard, Power point, You Tube, Google classroom	

*** Assessment Rubrics**

Component	Max Marks
ISA 1	7.5
ISA 2	7.5
ISA 3	7.5
Semester End Exam	60