

Semester Lecture Plan

Name of College: Government College of Arts, Science & Commerce, Sanquelim Goa

Name of Faculty: Miss. Ayesha Shetkar

Subject: Zoology

Paper code: ZOO 200 – Biology of Non-Chordates

Program/Course: S.Y.B.Sc.

Division: A

Academic year: 2026 - 2027

Semester: III

Total Lectures: 30

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.

Month	Lectures From: To:	No. of lect ures allot ted	Topic, Subtopic to be covered	Learning outcome	ICT Tools	Reference books
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June	19/06/2026	20/06/2026	0				
	22/06/2026	27/06/2026	2	1.Study of T.S of Hydra, T.S of Sycon, T.S of Ascaris.	Understand internal structure of Hydra, Sycon & Ascaris.	Power point presentation	E.L. Jordan, and P.S. Verma, Invertebrates Zoology., S. Chand and company, New Delhi, 2001.
July	29/06/2026	4/07/2026	2	1.Phylum Protozoa (permanent slides) – Minimum one specimen from each class	Understand phylum Protozoa	Power point presentation	E.L. Jordan, and P.S. Verma, Invertebrates Zoology., S. Chand and company, New Delhi, 2001.
	6/07/2026	11/07/2026	2	1. Phylum Porifera- minimum one specimen from each class	Understand phylum Porifers	Power point presentation/Videos/Pictures	E.L. Jordan, and P.S. Verma, Invertebrates Zoology., S. Chand and company, New Delhi, 2001.
	13/07/2026	18/07/2026	2	1.Phylum Cnidaria- minimum one specimen from each class	Understand phylum Cnidaria	Power point presentation	E.L. Jordan, and P.S. Verma, Invertebrates Zoology., S. Chand and company, New Delhi, 2001.
	20/7/2026	25/7/2026	2	1.Phylum Ctenophora- minimum one specimen	Understand phylum Ctenophora	Power point presentation	E.L. Jordan, and P.S. Verma, Invertebrates

							Zoology., S. Chand and company, New Delhi, 2001.
August	27/07/2026	01/08/2026	2	1. Phylum Platyhelminthes – minimum one specimen from each class	Understand phylum Platyhelminthes	Power point presentation/Video	E.L. Jordan, and P.S. Verma, Invertebrates Zoology., S. Chand and company, New Delhi, 2001.
	3/08/2026	8/08/2026	2	1. Superphylum Aschelminthes - Ascaris 1. Annelida – minimum one specimen from each class	Understand Superphylum Aschelminthes	Power point presentation/Videos	E.L. Jordan, and P.S. Verma, Invertebrates Zoology., S. Chand and company, New Delhi, 2001.
	10/08/2026	15/08/2026	2	1. Mollusca- minimum one specimen from each class	Understand Superphylum Mollusca	Power point presentation	E.L. Jordan, and P.S. Verma, Invertebrates Zoology., S. Chand and company, New Delhi, 2001.
	17/08/2026	22/08/2026	2	1. Arthropoda – minimum one specimen from each class	Understand Superphylum Arthropoda	Power point presentation/Video	E.L. Jordan, and P.S. Verma, Invertebrates Zoology., S. Chand and company, New Delhi, 2001.
	24/08/2026	29/08/2026	2	1. Echinodermata – minimum one specimen from each class	Understand Superphylum Echinodermata	Power point presentation	E.L. Jordan, and P.S. Verma, Invertebrates Zoology., S. Chand

							and company, New Delhi, 2001.
September	31/08/2026	5/09/2026	2	1. Demonstration of digestive system of Pila 1. Demonstration of nervous system in Pila	Explain digestive system & nervous system of Pila	Power point presentation/Videos	E.L. Jordan, and P.S. Verma, Invertebrates Zoology., S. Chand and company, New Delhi, 2001.
	7/09/2026	12/09/2026	2	1. Study of Crustacean larvae.	Explain larval stages of Crustacean	Power point presentation/Pictures	E.L. Jordan, and P.S. Verma, Invertebrates Zoology., S. Chand and company, New Delhi, 2001.
	21/09/2026	26/9/2026	2	1. Dissection- Digestive system in Cockroach. 1. Dissection- Nervous system in Cockroach.	Understand Digestive & nervous system of Cockroach	Power point presentation/Group discussion/Videos	E.L. Jordan, and P.S. Verma, Invertebrates Zoology., S. Chand and company, New Delhi, 2001.
October	28/9/2026	3/10/2026	2	1. Mounting of spiracles of cockroach 1. Mounting trachea of Cockroach	Understand structure of spiracles & trachea of Cockroach	Power point presentation/Videos	E.L. Jordan, and P.S. Verma, Invertebrates Zoology., S. Chand and company, New Delhi, 2001.
	5/10/2026	10/10/2026	2	1. Field visit to an intertidal zone to explore the invertebrate fauna	Explore & understand the diversity of invertebrate & shell fish, observation of	Power point presentation/Videos	E.L. Jordan, and P.S. Verma, Invertebrates Zoology., S. Chand and company, New Delhi, 2001.

				1. Visit to local fish market to get familiar with shell fish.	animal behaviour in natural habitat.		
	12/10/2026	14/10/2026	0				