

Semester Lecture Plan

Name of College: Government College of Arts, Science & Commerce, Sanquelim Goa							
Name of Faculty: Ms. Shradda Borkar			Subject: Zoology				
Paper code: ZOO-111			Program/Course: Understanding Applications of Zoology			Division:A	
Academic year: 2026 - 2027			Semester: I			Total Lectures: 30	
Course Objectives: 1. To outline the history, scope, and applications of Zoology in human health, trade, commerce, and industry. 2. To explain the importance of animal conservation.							
Month	Lectures From: To:		No. of lectures allotted	Topic, Subtopic to be covered	Learning outcome	ICT Tools	Reference books
June	19/06/2026	26/06/2026	01	Introduction, scope, importance of zoology in public health, role of animals and vectors in disease transmission.	Understand importance and role of animals in spreading vector borne disease	Power point presentation	K.D. Chatterjee, Parasitology: Protozoology and Helminthology, 1: India: CBS Publishers & Distributors,

July	27/06/2026	4/07/2026	02	Protozoans and helminthes of public health importance	Discuss various groups of protozoans and helminthes known pathogens to humans	Power point presentation	K.D. Chatterjee, Parasitology: Protozoology and Helminthology, 1: India: CBS Publishers & Distributors,
				Protozoan causing intestinal amoebiasis – Introduction, causative organism, morphology.	Explain causative agent and morphology- Entamoeba hystolytica,	Power point presentation	K.D. Chatterjee, Parasitology: Protozoology and Helminthology, 1: India: CBS Publishers & Distributors,
	6/07/2026	11/07/2026	02	Protozoan causing intestinal amoebiasis – Life cycle	Explain life cycle of entamaeoba hystolytica	Power point presentation	K.D. Chatterjee, Parasitology: Protozoology and Helminthology, 1: India: CBS Publishers & Distributors,

				Protozoan causing malaria – Causative organism, morphology.	Explain causative agent and morphology of plasmodium	Power point presentation	K.D. Chatterjee, Parasitology: Protozoology and Helminthology, 1: India: CBS Publishers & Distributors,
	13/07/2026	18/07/2026	02	Protozoan causing malaria – life cycle of Plasmodium. Mode of transmission, prevention and control.	Explain life cycle, transmission, preventions and control	Power point presentation	K.D. Chatterjee, Parasitology: Protozoology and Helminthology, 1: India: CBS Publishers & Distributors,
				Helminths infestations – Tapeworm – Mode of transmission, pathogenicity, prevention and control.	Explain Mode of transmission, pathogenicity, prevention and control.	Power point presentation	K.D. Chatterjee, Parasitology: Protozoology and Helminthology, 1: India: CBS Publishers & Distributors,
	20/7/2026	25/7/2026	02	Helminths infestations – Round worm – Pathogenicity, prevention and control.	Explain Round worm – Pathogenicity, prevention and control.	Power point presentation	K.D. Chatterjee, Parasitology: Protozoology and Helminthology, 1:

							India: CBS Publishers & Distributors,
				Mode of transmission, symptoms and prevention: Tuberculosis	Explain Mode of transmission, symptoms and prevention: Tuberculosis	Power point presentation	K.D. Chatterjee, Parasitology: Protozoology and Helminthology, 1: India: CBS Publishers & Distributors,
August	27/07/2026	01/08/2026	02	Mode of transmission, symptoms and prevention: Cholera	Mode of transmission, symptoms and prevention: Cholera	Power point presentation	K.D. Chatterjee, Parasitology: Protozoology and Helminthology, 1: India: CBS Publishers & Distributors,
				Mode of transmission, symptoms and prevention: Tetanus	Mode of transmission, symptoms and prevention: Tetanus	Power point presentation	K.D. Chatterjee, Parasitology: Protozoology and Helminthology, 1: India: CBS Publishers & Distributors,

	3/08/2026	8/08/2026	02	Mode of transmission, symptoms and prevention: Rabies	Explain Mode of transmission, symptoms and prevention: Rabie	Power point presentation	K.D. Chatterjee, Parasitology: Protozoology and Helminthology, 1: India: CBS Publishers & Distributors,
				Medical importance and control of disease-causing vectors: Anopheles sp. – Identification, biology, medical importance and control measures.	Explain Medical importance and control of disease-causing vectors: Anopheles sp. – Identification, biology, medical importance and control measures	Power point presentation	K.D. Chatterjee, Parasitology: Protozoology and Helminthology, 1: India: CBS Publishers & Distributors,
	10/08/2026	15/08/2026	02	Medical importance and control of disease-causing vectors: Culex sp. – Identification, biology, medical importance and control measures.	Medical importance and control of disease-causing vectors: Culex sp. – Identification, biology, medical importance and control measures.	Power point presentation	K.D. Chatterjee, Parasitology: Protozoology and Helminthology, 1: India: CBS Publishers & Distributors,
				Medical importance and control of disease-causing vectors: Aedes sp. – Identification,	Medical importance and control of disease-causing vectors:	Power point presentation	K.D. Chatterjee, Parasitology: Protozoology and

				biology, medical importance and control measures;	Aedes sp. – Identification, biology, medical importance and control measures;		Helminthology, 1: India: CBS Publishers & Distributors,
	17/08/2026	22/08/2026	02	Significance of Conservation Biology – Introduction, concept, scope and objectives of conservation biology.	Explain Significance of Conservation Biology – Introduction, concept, scope and objectives of conservation biology	Power point presentation	P. Joshi, and P. Joshi, Textbook of Conservation Biology. India: Evincepub Publishing. 2020.
				Significance of Conservation Biology – Importance of biodiversity conservation and major threats to biodiversity.	Explain Significance of Conservation Biology – Importance of biodiversity	Power point presentation	P. Joshi, and P. Joshi, Textbook of Conservation Biology. India: Evincepub Publishing. 2020.
	24/08/2026	29/08/2026	02	Global Conservation – International conservation initiatives, conventions and organizations for biodiversity conservation.	Explain Global Conservation – International conservation initiatives, conventions and organizations for biodiversity conservation.	Power point presentation	P. Joshi, and P. Joshi, Textbook of Conservation Biology. India: Evincepub Publishing. 2020.

				In-situ Conservation Strategies – Concept, objectives, protected areas, biosphere reserves, national parks and wildlife sanctuaries.	Explain In-situ Conservation Strategies – Concept, objectives, protected areas, biosphere reserves, national parks and wildlife sanctuaries.	Power point presentation	P. Joshi, and P. Joshi, Textbook of Conservation Biology. India: Evincepub Publishing. 2020.
September	31/08/2026	5/09/2026	02	In-situ Conservation Strategies – Advantages, limitations and case studies of in-situ conservation.	Explain In-situ Conservation Strategies – Advantages, limitations and case studies of in-situ conservation.	Power point presentation	P. Joshi, and P. Joshi, Textbook of Conservation Biology. India: Evincepub Publishing. 2020.
				Ex-situ Conservation Strategies – Concept, objectives, zoological parks, botanical gardens, seed banks, gene banks and captive breeding.	Explain Ex-situ Conservation Strategies – Concept, objectives, zoological parks, botanical gardens, seed banks, gene banks and captive breeding.	Power point presentation	P. Joshi, and P. Joshi, Textbook of Conservation Biology. India: Evincepub Publishing. 2020.
	7/09/2026	12/09/2026	02	Ex-situ Conservation Strategies – Advantages,	Explain Ex-situ Conservation	Power point presentation	P. Joshi, and P. Joshi, Textbook

				limitations and applications of ex-situ conservation.	Strategies – Advantages, limitations and applications of ex-situ conservation		of Conservation Biology. India: Evincepub Publishing. 2020.
				Conservation Genetics – Introduction, importance of genetic diversity, population genetics and genetic variation in conservation.	Explain Conservation Genetics – Introduction, importance of genetic diversity, population genetics and genetic variation in conservation.	Power point presentation	P. Joshi, and P. Joshi, Textbook of Conservation Biology. India: Evincepub Publishing. 2020.
				Conservation Genetics – Genetic bottleneck, inbreeding, gene flow and their significance in species conservation.	Explain Conservation Genetics – Genetic bottleneck, inbreeding, gene flow and their significance in species conservation.	Power point presentation	P. Joshi, and P. Joshi, Textbook of Conservation Biology. India: Evincepub Publishing. 2020.
	21/09/2026	26/9/2026	02	Wildlife Forensics (DNA Fingerprinting) – Introduction, principles and techniques of DNA fingerprinting.	Explain Wildlife Forensics (DNA Fingerprinting) – Introduction, principles and techniques of	Power point presentation	P. Joshi, and P. Joshi, Textbook of Conservation Biology. India: Evincepub Publishing. 2020.

					DNA fingerprinting		
				Wildlife Forensics (DNA Fingerprinting) – Applications in wildlife conservation, species identification and control of wildlife crime.	Explain Wildlife Forensics (DNA Fingerprinting) – Introduction, principles and techniques of DNA fingerprinting	Power point presentation	P. Joshi, and P. Joshi, Textbook of Conservation Biology. India: Evincepub Publishing. 2020.
				Centrally Sponsored Schemes for Wildlife Conservation – Project Tiger: objectives, implementation and achievements.	Explain Centrally Sponsored Schemes for Wildlife Conservation – Project Tiger: objectives, implementation and achievements.	Power point presentation	P. Joshi, and P. Joshi, Textbook of Conservation Biology. India: Evincepub Publishing. 2020.
October	28/9/2026	3/10/2026	02				
				Centrally Sponsored Schemes for Wildlife Conservation – Project Elephant and Crocodile Breeding Project: objectives, implementation and achievements.	Explain Centrally Sponsored Schemes for Wildlife Conservation – Project Tiger: objectives, implementation and achievements.	Power point presentation	P. Joshi, and P. Joshi, Textbook of Conservation Biology. India: Evincepub Publishing. 2020.
	5/10/2026	10/10/2026	02	Centrally Sponsored Schemes for Wildlife Conservation – Project	Explain Centrally Sponsored Schemes for	Power point presentation	P. Joshi, and P. Joshi, Textbook

				Elephant and Crocodile Breeding Project: objectives, implementation and achievements.	Wildlife Conservation – Project Elephant and Crocodile Breeding Project: objectives, implementation and achievements.		of Conservation Biology. India: Evincepub Publishing. 2020.
	12/10/2026	14/10/2026	01	Centrally Sponsored Schemes for Wildlife Conservation – Project Elephant and Crocodile Breeding Project: objectives, implementation and achievements.	Explain Centrally Sponsored Schemes for Wildlife Conservation – Project Elephant and Crocodile Breeding Project: objectives, implementation and achievements.	Power point presentation	P. Joshi, and P. Joshi, Textbook of Conservation Biology. India: Evincepub Publishing. 2020.