

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 100 - Amazing World of Animals

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

Division: A

Academic year: 2026 - 2027

Semester: I

Total Lectures: 48

Course Objectives: 1. To outline the origin, diversity and distribution of Animals.

2. To explain the resilience of animal life

Month	Lectures From: To:		No. of lectu res allot ted	Topic, Subtopic to be covered	Learning outcome	ICT Tools	Reference books
June	19/06/2026	20/06/2026	1.	1. Bioluminescence in animals	1. Explain bioluminescence in animals.	Power point presentation	1. J. Z. Young, The Life of Vertebrates. Oxford University Press, 2004. 2. K. K. Chaki, G. Kundu, and S. Sarkar, Introduction to General Zoology: Volume I, 4th

						ed. India: New Central Book Agency, 2011. 3. M. P. Arora, Organic Evolution, 2nd ed. India: Himalaya Publishing House, 2000. 4. P. D. Sharma, Ecology and Environment, 13th Ed. Rastogi Publications, 2014. 5. P. R. Yadav, Understanding Zoology. India: Discovery Publishing Pvt. Ltd., 2010.
	22/06/2026	27/06/2026 6	3	1. Echolocation in Bats & cetaceans 2. Jatinga bird phenomenon 3. Pearl formation in Mollusca	Understand echolocation, Jatinga bird phenomenon, & pearl formation.	1. J. Z. Young, The Life of Vertebrates. Oxford University Press, 2004. 2. K. K. Chaki, G. Kundu, and S. Sarkar, Introduction to General Zoology: Volume I, 4th ed. India: New Central Book Agency, 2011. 3. M. P. Arora, Organic Evolution, 2nd ed. India: Himalaya Publishing House, 2000. 4. P. D. Sharma, Ecology and Environment, 13th Ed. Rastogi Publications, 2014. 5. P. R. Yadav, Understanding Zoology. India: Discovery

							Publishing Pvt. Ltd., 2010.
July	29/06/2026	4/07/2026	3	1. Regeneration in animals 2. Mimicry in butterflies, 3. Bird migration	Explain regeneration & mimicry in various animal species.	Power point presentation	1. J. Z. Young, The Life of Vertebrates. Oxford University Press, 2004. 2. K. K. Chaki, G. Kundu, and S. Sarkar, Introduction to General Zoology: Volume I, 4th ed. India: New Central Book Agency, 2011. 3. M. P. Arora, Organic Evolution, 2nd ed. India: Himalaya Publishing House, 2000. 4. P. D. Sharma, Ecology and Environment, 13th Ed. Rastogi Publications, 2014. 5. P. R. Yadav, Understanding Zoology. India: Discovery Publishing Pvt. Ltd., 2010.
	6/07/2026	11/07/2026	3	Breeding and parental care in animals (1. Fishes, 2. Amphibia and 3. Mammals	Interpret breeding & parental care in animals.	Power point presentation/Videos/Pictures	1. J. Z. Young, The Life of Vertebrates. Oxford University Press, 2004. 2. K. K. Chaki, G. Kundu, and S. Sarkar, Introduction to General Zoology: Volume I, 4th ed. India: New Central Book Agency, 2011. 3. M. P. Arora, Organic Evolution, 2nd ed. India: Himalaya Publishing House, 2000. 4. P. D.

							Sharma, Ecology and Environment, 13th Ed. Rastogi Publications, 2014. 5. P. R. Yadav, Understanding Zoology. India: Discovery Publishing Pvt. Ltd., 2010.
	13/07/2026 6	18/07/2026 6	3	Extreme survival adaptations in animals (1. Desert animals (2. Savannah animals (3. Cave animals)	Apply knowledge of extreme survival adaptations in day today life.	Power point presentation	1. J. Z. Young, The Life of Vertebrates. Oxford University Press, 2004. 2. K. K. Chaki, G. Kundu, and S. Sarkar, Introduction to General Zoology: Volume I, 4th ed. India: New Central Book Agency, 2011. 3. M. P. Arora, Organic Evolution, 2nd ed. India: Himalaya Publishing House, 2000. 4. P. D. Sharma, Ecology and Environment, 13th Ed. Rastogi Publications, 2014. 5. P. R. Yadav, Understanding Zoology. India: Discovery Publishing Pvt. Ltd., 2010.
	20/7/2026	25/7/2026	3	1. Regeneration in animals, 2. Animal cognition. 3. Revision on module III	Explain animal regeneration & animal cognition.	Power point presentation	1. J. Z. Young, The Life of Vertebrates. Oxford University Press, 2004. 2. K. K. Chaki, G. Kundu, and S. Sarkar, Introduction to General Zoology: Volume I, 4th ed. India: New Central Book Agency, 2011. 3. M. P. Arora, Organic

							Evolution, 2nd ed. India: Himalaya Publishing House, 2000. 4. P. D. Sharma, Ecology and Environment, 13th Ed. Rastogi Publications, 2014. 5. P. R. Yadav, Understanding Zoology. India: Discovery Publishing Pvt. Ltd., 2010.
August	27/07/2026	01/08/2026	3	1.Role of animals in ecosystem (as niche species, 2.pollinators and seed dispersal by insect and birds, 3.bioindicators); in human life;	Summarize the role of animals in the dynamics of earth.	Power point presentation/Video	1. J. Z. Young, The Life of Vertebrates. Oxford University Press, 2004. 2. K. K. Chaki, G. Kundu, and S. Sarkar, Introduction to General Zoology: Volume I, 4th ed. India: New Central Book Agency, 2011. 3. M. P. Arora, Organic Evolution, 2nd ed. India: Himalaya Publishing House, 2000. 4. P. D. Sharma, Ecology and Environment, 13th Ed. Rastogi Publications, 2014. 5. P. R. Yadav, Understanding Zoology. India: Discovery Publishing Pvt. Ltd., 2010.
	3/08/2026	8/08/2026	3	1. Ethnozoology. 2. Values of animals: Ethical, Ecological, Economic,	Relate to the factors important for sustenance of	Power point presentation	1. J. Z. Young, The Life of Vertebrates. Oxford University Press, 2004. 2. K. K. Chaki, G. Kundu, and S. Sarkar, Introduction to General Zoology: Volume I, 4th

				3.Aesthetic, Scientific and Cultural.	animals & humans.		ed. India: New Central Book Agency, 2011. 3. M. P. Arora, Organic Evolution, 2nd ed. India: Himalaya Publishing House, 2000. 4. P. D. Sharma, Ecology and Environment, 13th Ed. Rastogi Publications, 2014. 5. P. R. Yadav, Understanding Zoology. India: Discovery Publishing Pvt. Ltd., 2010.
	10/08/2026	15/08/2026	3	1.Threats to animals: Natural threats such as flood, Volcanic eruption, landslides, 2.Forest fires, tsunamis; 3. Habitat loss and fragmentation;	Interpret & differentiate threats to animals.	Power point presentation	1. J. Z. Young, The Life of Vertebrates. Oxford University Press, 2004. 2. K. K. Chaki, G. Kundu, and S. Sarkar, Introduction to General Zoology: Volume I, 4th ed. India: New Central Book Agency, 2011. 3. M. P. Arora, Organic Evolution, 2nd ed. India: Himalaya Publishing House, 2000. 4. P. D. Sharma, Ecology and Environment, 13th Ed. Rastogi Publications, 2014. 5. P. R. Yadav, Understanding Zoology. India: Discovery Publishing Pvt. Ltd., 2010.
	17/08/2026	22/08/2026	3	1.Man, and Wildlife conflict,	Apply knowledge & understanding to	Power point presentation/Audio	1. J. Z. Young, The Life of Vertebrates. Oxford University Press, 2004. 2. K. K. Chaki, G.

				2. threats of linear infrastructure, 3. Zooanthroponosis,	reduce man wildlife conflict. Explain zooanthroponosis.		Kundu, and S. Sarkar, Introduction to General Zoology: Volume I, 4th ed. India: New Central Book Agency, 2011. 3. M. P. Arora, Organic Evolution, 2nd ed. India: Himalaya Publishing House, 2000. 4. P. D. Sharma, Ecology and Environment, 13th Ed. Rastogi Publications, 2014. 5. P. R. Yadav, Understanding Zoology. India: Discovery Publishing Pvt. Ltd., 2010.
	24/08/2026	29/08/2026	3	1. Global climate change. 2. Revision on module II 3. Revision on module II	Interpret global climate change.	Power point presentation	1. J. Z. Young, The Life of Vertebrates. Oxford University Press, 2004. 2. K. K. Chaki, G. Kundu, and S. Sarkar, Introduction to General Zoology: Volume I, 4th ed. India: New Central Book Agency, 2011. 3. M. P. Arora, Organic Evolution, 2nd ed. India: Himalaya Publishing House, 2000. 4. P. D. Sharma, Ecology and Environment, 13th Ed. Rastogi Publications, 2014. 5. P. R. Yadav, Understanding Zoology. India: Discovery Publishing Pvt. Ltd., 2010.

September	31/08/2026	5/09/2026	3	1. Origin, diversity and distribution of Animals 2. Origin, diversity and distribution of Animals 3. Evolution of earth;	Explain the origin, diversity and distribution of animals.	Power point presentation	1. J. Z. Young, The Life of Vertebrates. Oxford University Press, 2004. 2. K. K. Chaki, G. Kundu, and S. Sarkar, Introduction to General Zoology: Volume I, 4th ed. India: New Central Book Agency, 2011. 3. M. P. Arora, Organic Evolution, 2nd ed. India: Himalaya Publishing House, 2000. 4. P. D. Sharma, Ecology and Environment, 13th Ed. Rastogi Publications, 2014. 5. P. R. Yadav, Understanding Zoology. India: Discovery Publishing Pvt. Ltd., 2010.
	7/09/2026	12/09/2026	3	1. The first living cell 2. Brief idea of geological time line 3. Evolution of animals	Explain evolution of first living cell, geological time scale & evolution of animals.	Power point presentation	1. J. Z. Young, The Life of Vertebrates. Oxford University Press, 2004. 2. K. K. Chaki, G. Kundu, and S. Sarkar, Introduction to General Zoology: Volume I, 4th ed. India: New Central Book Agency, 2011. 3. M. P. Arora, Organic Evolution, 2nd ed. India: Himalaya Publishing House, 2000. 4. P. D. Sharma, Ecology and Environment, 13th Ed. Rastogi Publications, 2014. 5. P. R. Yadav, Understanding Zoology.

							India: Discovery Publishing Pvt. Ltd., 2010.
	21/09/2026	26/9/2026	3	1. Outline classification of animal kingdom 2. Major habitats associated animal diversity (Desert, Savanna grassland, 3. Forest, cave,	Understand classification of animals & habitat diversity.	Power point presentation/Group discussion	1. J. Z. Young, The Life of Vertebrates. Oxford University Press, 2004. 2. K. K. Chaki, G. Kundu, and S. Sarkar, Introduction to General Zoology: Volume I, 4th ed. India: New Central Book Agency, 2011. 3. M. P. Arora, Organic Evolution, 2nd ed. India: Himalaya Publishing House, 2000. 4. P. D. Sharma, Ecology and Environment, 13th Ed. Rastogi Publications, 2014. 5. P. R. Yadav, Understanding Zoology. India: Discovery Publishing Pvt. Ltd., 2010.
October	28/9/2026	3/10/2026	3	1. Oceanic diversity 2. Paleozoology as a tool to demonstrate evolution. 3. Paleozoology as a tool to demonstrate evolution	Understand oceanic diversity. Apply paleozoology as too to demonstrate evolution.	Power point presentation	1. J. Z. Young, The Life of Vertebrates. Oxford University Press, 2004. 2. K. K. Chaki, G. Kundu, and S. Sarkar, Introduction to General Zoology: Volume I, 4th ed. India: New Central Book Agency, 2011. 3. M. P. Arora, Organic Evolution, 2nd ed. India: Himalaya Publishing House, 2000. 4. P. D. Sharma, Ecology and Environment, 13th Ed.

							Rastogi Publications, 2014. 5. P. R. Yadav, Understanding Zoology. India: Discovery Publishing Pvt. Ltd., 2010.
	5/10/2026	10/10/2026	3	1. Revision on module I 2. Brief idea of geological time line 3. Urbanization	Explain geological time scale & urbanisation.	Power point presentation/Videos	1. J. Z. Young, The Life of Vertebrates. Oxford University Press, 2004. 2. K. K. Chaki, G. Kundu, and S. Sarkar, Introduction to General Zoology: Volume I, 4th ed. India: New Central Book Agency, 2011. 3. M. P. Arora, Organic Evolution, 2nd ed. India: Himalaya Publishing House, 2000. 4. P. D. Sharma, Ecology and Environment, 13th Ed. Rastogi Publications, 2014. 5. P. R. Yadav, Understanding Zoology. India: Discovery Publishing Pvt. Ltd., 2010.
	12/10/2026	14/10/2026	2	2. Revision on module I 3. Revision on module III	Course consolidation.	Power point presentation/Videos	1. J. Z. Young, The Life of Vertebrates. Oxford University Press, 2004. 2. K. K. Chaki, G. Kundu, and S. Sarkar, Introduction to General Zoology: Volume I, 4th ed. India: New Central Book Agency, 2011. 3. M. P. Arora, Organic Evolution, 2nd ed. India: Himalaya Publishing

							House, 2000. 4. P. D. Sharma, Ecology and Environment, 13th Ed. Rastogi Publications, 2014. 5. P. R. Yadav, Understanding Zoology. India: Discovery Publishing Pvt. Ltd., 2010.
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