

Semester Lecture Plan

Name of College: Government College of Arts, Science & Commerce, Sanquelim Goa							
Name of Faculty: Dr. Vaibhav Chindarkar			Subject: Zoology				
Paper code: ZOO100 Amazing world of Animals			Program/Course: F.Y. B.Sc.			Division: A	
Academic year: 2024-2025			Semester: II			Total Lectures: 15	
Course Objectives: To provide students with theoretical and practical understanding of animal biotechnology.							
Course Learning Outcome: On completion of this course, the learner will be able to:							
1. Explain the origin, diversity and distribution of animals. 2. Summarize the role of animals in the dynamics of earth. 3. Discover the fascinating world of animals. 4. Relate to the factors important for sustenance of animals.							
Month	Lectures From: To:		No. of lectures allotted	Topic, Subtopic to be covered	Exerci se/ Assign ment	ICT Tools	Reference books
Decembe r	9/12/24	14/12/24	1	Origin, diversity and distribution of Animals: Introduction		Power point presentation, lecture	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, 4 th ed. India: New Central Book Agency, 2011. 3. M. P. Arora, Organic Evolution, 2 nd 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.
December	16/12/24	21/12/24	1	Evolution of earth: Introduction		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.
January			3	Evolution of earth contd....		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.
	2/01/25	4/01/25					
			1	Evolution of earth contd.....		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.
	6/01/25	11/01/25					

Jan 2024							4. P. D. Sharma, Ecology and Environment, 13 th Ed. Rastogi Publications, 2014. 5. P. R. Yadav, Understanding Zoology. India: Discovery Publishing Pvt. Ltd., 2010.
	13/01/25	18/01/25	1	The first living cell... Introduction to origin of 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, 4 th ed. India: New Central Book Agency, 2011. 3. M. P. Arora, Organic Evolution, 2 nd ed. India: Himalaya Publishing House, 2000. 4. P. D. Sharma, Ecology and Environment, 13 th Ed. Rastogi Publications, 2014. 5. P. R. Yadav, Understanding Zoology. India: Discovery Publishing Pvt. Ltd., 2010.
Jan/Feb 2025	20/01/25	25/01/25	1	The first living cell... origin of 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, 4 th ed. India: New Central Book Agency, 2011. 3. M. P. Arora, Organic Evolution, 2 nd ed. India: Himalaya Publishing House, 2000. 4. P. D. Sharma, Ecology and Environment, 13 th Ed. Rastogi Publications, 2014. 5. P. R. Yadav, Understanding Zoology. India: Discovery Publishing Pvt. Ltd., 2010.
	27/01/25	1/02/25	1	The first living cell... origin of life...contd		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, 4 th ed. India: New Central Book Agency, 2011. 3. M. P. Arora, Organic Evolution, 2 nd ed. India: Himalaya Publishing House, 2000.

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	3/02/25	8/02/25	1	Brief idea of geological time line		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, 4 th ed. India: New Central Book Agency, 2011. 3. M. P. Arora, Organic Evolution, 2 nd ed. India: Himalaya Publishing House, 2000. 4. P. D. Sharma, Ecology and Environment, 13 th Ed. Rastogi Publications, 2014. 5. P. R. Yadav, Understanding Zoology. India: Discovery Publishing Pvt. Ltd., 2010.
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Feb 2025	10/02/25	15/02/25	1	Geological time line		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, 4 th ed. India: New Central Book Agency, 2011. 3. M. P. Arora, Organic Evolution, 2 nd 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.
Feb 2025	17/02/25	22/02/25	1	Geological time line.... contd		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.
Feb/ March 2025	24/02/25	1/03/25	1	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.
	3/03/25	8/03/25	1	Evolution of animals...contd		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.

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March 2025	10/03/25	15/03/25	1	outline classification of animal kingdom		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, 4 th ed. India: New Central Book Agency, 2011. 3. M. P. Arora, Organic Evolution, 2 nd ed. India: Himalaya Publishing House, 2000. 4. P. D. Sharma, Ecology and Environment, 13 th Ed. Rastogi Publications, 2014. 5. P. R. Yadav, Understanding Zoology. India: Discovery Publishing Pvt. Ltd., 2010.
March 2025	17/03/25	22/03/25	1	Major habitats associated animal diversity desert, Savanna grassland		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, 4 th ed. India: New Central Book Agency, 2011. 3. M. P. Arora, Organic Evolution, 2 nd ed. India: Himalaya Publishing House, 2000. 4. P. D. Sharma, Ecology and Environment, 13 th Ed. Rastogi Publications, 2014. 5. P. R. Yadav, Understanding Zoology. India: Discovery Publishing Pvt. Ltd., 2010.
	24/03/2025	29/03/2025		habitats associated animal diversity: Forest, cave, oceanic		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, 4 th ed. India: New Central Book Agency, 2011.

							3. M. P. Arora, Organic Evolution, 2 nd ed. India: Himalaya Publishing House, 2000. 4. P. D. Sharma, Ecology and Environment, 13 th Ed. Rastogi Publications, 2014. 5. P. R. Yadav, Understanding Zoology. India: Discovery Publishing Pvt. Ltd., 2010.
				Paleozoology as a tool to demonstrate evolution.			
March/ April 2025	31/03/2025	05/03/2025	1				M. P. Arora, Organic Evolution, 2 nd ed. India: Himalaya Publishing House, 2000.
April 2025	7/04/25	11/04/25	1	Revision			

* Assessment Rubrics

Component	Max Marks
ISA 1	7.5
ISA 2	7.5
ISA 3	7.5
Practical	25
Semester End Exam	60