			Practical Plan					
Name of t	<mark>the college: Govt. C</mark>	College of Arts, Scie	nce and Commerce, Sanquelim - Goa					
Name of Faculty: Dr. Suphala Pujari		Pujari	Subject: Zoology					
Paper code:ZOO - 141			Program: FY BSc	am: FY BSc Division: A				
Academic year: 2025- 2026			Semester: I	Total Practicals/Labs: 13				
Credits:	02							
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Course Objectives: 1. Recognize skills of observation and data collection in field. 2. Develop fundamental skills required for zoological research and fieldwork. 3. Understand								
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	•		tion and data collection in field. 2. Develop fundamental skills in a species. 4. Teach protocols of handling hazardous was	•				
taxonomi	c methods for ident	cifying and classifyin	ng animal species. 4. Teach protocols of handling hazardous wa	ste, biomedical wa	ste, and biolog	ical specimens.		
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	18/07/2025		Handling laboratory instruments (at least four) Study of parts of microscope	D. M. Harmening, Laboratory
		1	and their functions; types, handling, and use.	Management, Principles and Processes,
	25/07/2025	1	Study of parts of microscope and their functions; types, handling, and use.	3rd ed. D.H. Publishing & Consulting Inc.,
August	08/08/2025	1	Types of staining techniques (Simple, Differential, Vital and Negative)	2012.
	22/08/2025	1	Chromatography (Paper and TLC) and Gel Electrophoresis (demonstration).	I. H. Segel, Biochemical Calculations, 2nd
	05/09/2025	1	Demonstration of microtomy (Tissue fixing, Block making, Ribbon cutting).	ed. New York: John Wiley and Sons, 1997.
	12/09/2025	1	Use of taxonomic keys and field guides (for any two groups of animals).	R. H. Linville, and H. A. Kelly, A Guide for
	19/09/2025	1	Handling field instruments (at least four)	 Laboratory and Field Work in Zoology, Boston: Ginn & Co., 2019. S. S. Lal, Practical Zoology: Vertebrate.
			Field survey methods to be demonstrated in field (Sample Area Count, Line	
	26/09/2025	1	Transects, Quadrate Sampling, Point Count and Random survey).	
October	03/10/2025	1	Collection and preservation of specimens/ samples.	Rastogi Publication, 2019.
			Data collection methods – cards/ diary, dictaphone, imagery, and maintenance	
	10/10/2025	1	of Field Diary.	
	17/10/2025	1	Certification of journal/Exam	