

Practical Plan		
	Name of the College: Government College of Arts, Science and Commerce, Sanquelim-Goa	
Name of Faculty: Dr Suman Tari		Subject: Zoology
Paper code: ZOO-141: Skills for Zoologists	Program: FY BSc	Division: Batch: II
Academic year: 2026-27	Semester: I	Total Practicals/Labs: 10
Course Objectives: 1. Recognize skills of observation and data collection in field. 2. Develop fundamental skills required for zoological research and fieldwork. 3. Understand taxonomic methods for identifying and classifying animal species. 4. Teach protocols of handling hazardous waste, biomedical waste, and biological specimens.		
Expected Course Outcome: At the end of the course, students will be able to: 1. Demonstrate skills for observations of specimen in the field. 2. Use the common/basic field and laboratory equipment. 3. Develop strategies to work effectively in		

‘field’ and biological laboratory. 4. Plan safety protocols for ‘field’ and laboratory work.

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No. of Practical s/Labs planned	List of Experiments	Reference books Laboratory manual	Date planned
1	Handling field instruments (at least four)		25/6/2026
1	Use of taxonomic keys and field guides (for any two groups of animals).		2/7/2026
1	Field survey methods to be demonstrated in field (Sample Area Count, Line Transects, Quadrata Sampling, Point Count and Random survey		9/7/2026
2	Field survey methods to be demonstrated in field (Sample Area Count, Line Transects, Quadrata Sampling, Point Count and Random survey		16/7/2026
1	Collection and preservation of specimens/ samples.		23/7/2026
1	Data collection methods – cards/ diary, dictaphone, imagery, and maintenance of Field Diary.		30/7/2026
1	Safety and conduct in a laboratory (Interpretation of safety symbols)		6/8/2026
1	Sterilization and handling of laboratory glassware/ fluids/ reagents/ media (dry heat, wet heat, filtration, radiation (UV))		13/8/2026
2	Sterilization and handling of laboratory glassware/ fluids/ reagents/ media (dry heat, wet heat, filtration, radiation (UV))		10/8/2026
1	Preparation of solutions		27/8/2026
1	Handling laboratory instruments (at least four)		3/9/2026

1	Study of parts of microscope and their functions; types, handling, and use.		10/9/2026
1	Types of staining techniques (Simple, Differential, Vital and Negative)		17/9/2026
1	Demonstration of microtomy (Tissue fixing, Block making, Ribbon cutting)		24/9/2026
1	Chromatography (Paper and TLC) and Gel Electrophoresis (demonstration).		1/10/2026
	Practical Exam		8/10/2026

Dr Suman Tari

Teacher-in-charge