

Practical Plan					
Name of the College: Government College of Arts, Science and Commerce. Sanquelim- Goa					
Name of Faculty: Dr. Suphala Pujari		Subject: Zoology			
Paper code: ZOO 203 (Practical)		Program: S. Y. B. Sc			Division: A
Academic year: 2025- 2026		Semester: IV			Total Lectures: 30 hrs.
Course Objectives:					
1. Understand the fundamental principles and concepts of biochemistry.					
2. Imparting understanding of structure of biomolecules, the basic building blocks of living organisms					
3. Understanding the biological roles of the various biomolecules.					
4. Examine the principles of enzyme kinetics and catalysis in biochemical reactions					
Expected Course Outcome:					
At the end of the course, students will be able to					
1. Impart understanding of structure of biomolecules, the basic building blocks of living organisms.					
2. Understand the biological roles of the various biomolecules.					
3. Analyze the structure and function of biomolecules such as proteins, carbohydrates, lipids, and nucleic acids.					
4. Examine the kinetics and catalytic properties of enzymes in biochemical reactions.					
Month	Lecture From	Lecture To	No. of Practical planned	List of Experiments	Reference books
December	01/12/2025	06/12/2025	1	Qualitative tests for reducing and non-reducing sugars.	• Departmental Laboratory Manual.

	08/12/2025	13/12/2025	1	Qualitative tests for reducing and non-reducing sugars.	<ul style="list-style-type: none"> <li>U. Satyanarayana, U. Chakrapani, Biochemistry, Elsevier India Pvt. Ltd, Co published by Allied Books, 2020.</li> </ul>
	15/12/2025	20/12/2025	1	Estimation of total protein from a suitable tissue	
	22/12/2025	23/12/2025	1	Fatty acid estimation from oil	
January	05/01/2026	10/01/2026	1	Calculations and completion of journal	
	12/01/2026	17/01/2026	1	Cholesterol estimation from blood serum.	
	19/01/2026	24/01/2026	1	Estimation of Glycogen from liver tissue	
	26/01/2026	31/01/2026	1	Effect of pH on salivary amylase activity.	
February	02/02/2026	07/02/2026	1	Calculations and journal writing.	
	09/02/2026	14/02/2026	1	Effect of temperature on the action of salivary amylase	
	16/02/2026	21/02/2026	1	Calculations and journal writing.	
	23/02/2026	28/02/2026	1	Calculating the Km for Amylase enzyme	
March	02/03/2026	07/03/2026	1	Calculating the Km for Amylase enzyme	
	09/03/2026	14/03/2026	1	Effect of inhibitor (any suitable) on salivary amylase activity	
	16/03/2026	21/03/2026	1	Estimating sugar in fruit juices and soft drinks using refractometer.	
	23/03/2026	28/03/2026	1	Revision/Completion of Journal/ Certification of journal	
	30/03/2026	31/03/2026	1	Certification of journal	

