

Lecture Plan							
Name of the College: Government College of Arts, Science and Commerce. Sanquelim- Goa							
Name of Faculty: Mr. Sanjeet Gaonkar		Subject: Zoology					
Paper code: ZOO 201		Program: S.Y BSc				Division:	
Academic year: 2025- 2026		Semester: III				Total Lectures: 15	
Course Objectives: 1. Imparting understanding of the cellular organisation. 2. Understanding the genetic basis of inheritance. 3. Analyze the structure and function of cells, organelles, and cellular components. 4. Gain practical experience in laboratory techniques used in cell biology and genetics research.							
Expected Course Outcome: At the end of the course, students will be able to 1. Explain the cellular organisation. 2. Distinguish between prokaryotic and eukaryotic cell 3. Interpret the transmission of traits based on the laws of inheritance. 4. Predict the outcome of monohybrid and dihybrid genetic crosses							
Student Learning Outcome: Students will gain knowledge of the mechanism of homeostasis through hormonal regulation							
Month	Lecture From	Lecture To	No. of lectures allotted	Topic, Subtopic to be covered	Exercise/ Assignment	ICT Tools	Reference books

June/July	30/06/2025	05/07/2025	1	Generalised Prokaryotic cell		PPT	
July	07/07/2025	12/07/2025	1	Extremophiles		PPT	
July	14/07/2025	19/07/2025	1	PPLO		PPT	
July	21/07/2025	26/07/2025	1	Eukaryotic cell		PPT	
July/August	28/07/2025	02/08/2025	1	Plasma membrane, structure (Fluid mosaic Model)		PPT	

August	04/08/2025	09/08/2025	1	Plasma membrane- composition and functions (Passive and active transport)		PPT	
August	11/08/2025	16/08/2025	1	Cell organelles—Structure and functions of - Mitochondria, Endoplasmic reticulum		PPT	
August	18/08/2025	23/08/2025	1	Cell organelles—Structure and functions of - Golgi complex, Ribosomes, Lysosomes		PPT	
September	02/09/2025	06/09/2025	1	Cell organelles—Structure and functions of - Centriole, Cytoskeletal elements Nucleus- Interphase nucleus		PPT	
September	08/09/2025	13/09/2025	1				
September	15/09/2025	20/09/2025	1	Nuclear envelope (structure including the pore complex)		PPT	
September	22//09/2025	27/09/2025	1	Chromatin (heterochromatin and Euchromatin), Nucleolus (structure and function)		PPT	
September	29/09/2025	04/10/2025	1	Cell junctions: Occluding junctions (Tight junctions)		PPT	

October	06/10/2025	11/10/2025	1	Anchoring junctions (desmosomes), Communicating junctions (gap junctions)		PPT	
October	13/10/2025	18/10/2025	1	Communicating junctions (gap junctions) and Plasmodesmata.		PPT	