

		Practical Plan		
Name of the college: Government College of Arts, Science & Commerce, Sanquelim				
Name of Faculty: Mrs.Preethi Pednekar		Subject: Zoology		
Paper code: ZOO 201		Program: SY BSc		Division/Batch:
Cell biology and Genetics				
Academic year: 26-27		Semester: III		Total Practicals/Labs: 30
Credits:1		01		
Course Objectives:				
Expected Course Outcome:				
Student Learning Outcome				
Month	batches/ Scheduled Date	No. of Practicals	List of Experiments	Reference books
June 26	22/6/26	1	Gram staining to observe bacteria from curd/ tartar.	Karp, G. (2010). Cell & Molecular biology: Concepts & Experiments. 6 th Edition. John Wiley & Sons. Inc.
	29/6/26	1	. Use of a suitable staining technique to mount buccal epithelial cells. .	
July	6/7/26	1	3. Temporary mount of onion root tip cells to study mitotic stages.	
	13/7/26	1	4. Use of photomicrographs /permanent slides to study the meiotic stages	
	20/7/26	1	5. Study of Polytene Chromosome	
	27/7/26	1	6. Study of cell organelles— Mitochondria, Endoplasmic reticulum, Golgi complex using Electron micrographs	

August	3/8/26	1	7. Study of Human Karyotype- Normal male, 8. Study of Human Karyotype- Normal female	Karp, G. (2010). Cell & Molecular biology: Concepts & Experiments. 6th Edition. John Wiley & Sons. Inc.
	10/8/26	1	9. Study of Human Karyotype- Down's syndrome 10. Study of Human Karyotype- Turner's Syndrome	Karp, G. (2010). Cell & Molecular biology: Concepts & Experiments. 6th Edition. John Wiley & Sons. Inc.
	17/8/26	1	11. Study of Human Karyotype- Cri-du-chat syndrome 12. Preparation of Pedigree chart of tongue rolling, hitch hikers thumb, Widows peak, folding of arms, clasping of hands, attached/free ear lobes.	Karp, G. (2010). Cell & Molecular biology: Concepts & Experiments. 6th Edition. John Wiley & Sons. Inc.
	24/8/26	1	13. Problems on Mendelian monohybrid crosses using beads.	
	31/8/26	1	13. Problems on Mendelian dihybrid crosses using beads.	
September	7/9/26	1	14. Problems on Multiple genes	
	21/9/26	1	15. Human blood grouping---(Rh and ABO)	

	28/9/26	1	Examination	
October	5/10/26	1	Examination	