Practical Plan

Name of the college: Government College of Arts, Science & Commerce Sanquelim Goa

Name of Faculty. Arati Panshekar	**Subject: Geography**	
Paper code: GEC 105 Practical in Physical Geography	**Program: TYBA**	**Division:**
Academic year: 2024 - 2025	**Semester: VI**	**Total Practicals/Labs: 17**

Credits:02

Course Objectives: This is an introductory paper which is intended to acquaint the students with basics of topographical mapping.

Expected Course Outcome: By the end of this course, students will gain a comprehensive understanding of Survey of India (SOI) toposheets, including indexing, scales, grid references, and map interpretation techniques. They will be able to analyze topographical maps to identify and interpret key geographical features such as physiography, drainage, vegetation, and land use patterns across different landscapes. Additionally, students will develop practical skills in field observation, geographical feature identification, and report preparation through a hands-on field excursion.

Student Learning Outcome: Students will be able to accurately interpret and analyze Survey of India (SOI) toposheets, applying knowledge of indexing, scales, and conventional symbols. They will demonstrate proficiency in identifying geographical features and land use patterns on topographical maps across diverse landscapes. Additionally, students will effectively conduct field observations and compile comprehensive reports on geographical findings.

Month	Practicals/Labs Scheduled Date	No. of Practicals/Labs planned	List of Experiments	Reference books
July	01/07/2014	1	**Introduction to Survey of India (SOI)**	

			toposheets	1. Cuff J. D. and Mattson M. T., (1982): Thematic Maps: Their Design and Production, Methuen Young Books 2. Dent B. D., Torguson J. S., and Holder T. W., (2008): Cartography: Thematic Map, Design (6th Edition), Mcgraw-Hill Higher Education. 3. Gupta K. K. and Tyagi V. C., (1992): Working with Maps, Survey of India, DST, New Delhi. 4. Kraak M. J., Ormeling F., (2003): Cartography: Visualization of Geo-Spatial Data, Prentice-Hall. 5. Mishra R. P., and Ramesh A., (1989): Fundamentals of Cartography, Concept, New Delhi. 6. Singh R. L., Singh R. P. B., (1999): Elements of Practical Geography, Kalyani Publishers. 7. Slocum T. A., Mcmaster R. B. and Kessler F. C., (2008): Thematic Cartography and Geovisualization (3rd Edition), Prentice Hall. 8. Tyner J. A., (2010): Principles of Map Design, The Guilford Press. 9. Sarkar, A. (2015): Practical geography: A systematic approach. Orient Black Swan Private Ltd., New Delhi
	08/07/2014	1	Indexing/ Types	
	15/07/2014	1	Indexing/ Types	
	22/07/2014	1	Scales and Grid Reference	
	29/07/2014	1	Scales and Grid Reference	
August	05/08/2014	1	Convectional Signs and Symbols	
	12/08/2014	1	Colour Schemes	
	19/08/2014	1	Marginal Information	
	26/08/2014	1	Calculation of Toposheet Area	
September	02/09/2024	1	**Comparison of SOI with Ordinal maps of UK**	
	09/09/2024	1	**United States Geological Survey Maps (USGS)**	
	16/09/2024	1	**Topographical Map Interpretation**	

	23/09/2024	1	**Topographical Map Interpretation**	
	30/09/2024	1	**Topographical Map Interpretation**	
October	07/10/2024	1	**Topographical Map Interpretation**	
	14/10/2024	1	**Topographical Map Interpretation**	
	21/10/2024	1	Revision	