Semester Practical Plan

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

Name of Faculty: Brahmanand Narahari Sawant	**Subject:** Geology	
Paper code: GEO-141, Remote Sensing and Drone Photography	**Program/Course: FY B.Sc.**	**Division:**
Academic year: 2024- 2025	**Semester: I**	**Total Practicals: 13 Practicals**

Course Objectives:

1. **To describe remote sensing process.**
2. **To explain the applications of remote sensing in various fields.**

Course Learning Outcome:

1. **1. Students will be able to explain the applications of remote sensing in various fields.**

Month	**Lectures From:**	**To:**	**No. of Practicals allotted**	**List of Experiments**	**Learning outcome**	**ICT Tools**	**Reference books**
July	28/06/2024	06/07/2024	01	Downloading of satellite images through various on-line platforms	Students will be able to download satellite imagery		Reed, B. (2019). Physical principles of remote

	08/07/2024	13/07/2024	01	Processing of downloaded raw data using QGIS software	Students will be able to process satellite raw data		sensing. Cambridge University Press.
AUGUST	15/07/2024	20/07/2024	01	Layer stacking in QGIS software	Students will be able to do layer stacking to get FCC		
	22/07/2024	27/07/2024	01	Interpretation of 2 satellite imageries	Students will be able to interpret satellite imageries		
	29/07/2024	03/08/2024	01	Interpretation of 2 satellite imageries	Students will be able to interpret Time series analysis		
	05/08/2024	10/08/2024	01	Remote sensing applications, use of remote sensing technology	Students will be able to understand Remote sensing applications, use of remote sensing technology		
	12/08/2024	17/08/2024	01	Remote sensing applications, use of remote sensing technology	Students will be able to understand Remote sensing applications, use of remote sensing technology		

SEPTEMBER	19/08/2024	24/08/2024	01	Drone technology and equipment, hands on training on drone photography	Students will be able to understand Drone technology and equipment, hands on training on drone photography		
	26/08/2024	31/08/2024	01	Drone technology and equipment, hands on training on drone photography	Students will be able to understand Drone technology and equipment, hands on training on drone photography		
	2/9/2024	5/9/2024	01	Legal and ethical consideration in drone photograph	Students will be able to understand Legal and ethical consideration in drone photograph		Reed, B. (2019). Physical principles of remote sensing. Cambridge University Press. Hall, C. (2018). The drone photography handbook:
	16/9/2024	21/9/2024	01	Legal and ethical consideration in drone photography	Students will be able to understand Legal and ethical consideration		

					in drone photograph		Capture stunning Aerial photos and Videos with Your drone. Ilex Press.
OCTOBER	23/9/2024	28/9/2024	01	Revision			
	30/9/2024	5/10/2024	01	Revision			
	07/10/2024	12/10/2024		Revision			
	14/10/2024	19/10/2024		Revision			

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	Component	Max Marks
Assessment Rubrics	Practical ISA 1	05
	Practical ISA II	05
	Practical ISA III	05(Best 2 is considered)
	Theory ISA 1	05
	Theory ISA II	05 (Best 1 is considered)
	SEE Practical	40
	SEE Theory	20