

Semester Lecture Plan

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

Name of Faculty: Delia Cardozo

Subject: Geology

Paper code: GEO 323

Program/Course: TY B.Sc.

Division:

Academic year: 2025- 2026

Semester: VI

Total Lectures: 03

The objectives of this course are to:

1. Identify the geological processes that cause natural hazards. CL2
2. Discuss the impact of natural hazards on the various components of the environment. CL2
3. Explain preventive measures and techniques for the mitigation of natural, and environmental pollution. CL2

Course Learning Outcome:

At the end of the course the student will be able to:

1. Analyze data for identification of Natural hazards and their impact on life and property. CL4
2. Recommend sustainable solutions to mitigate the impact of natural hazards. CL4
3. Demarcate geological hazards on the outline map of India. CL2
4. Prepare a geological report of a site affected by geological hazard. CL4

Month	Lectures From:	Lectures To:	No. of lectures allotted	Topic, Subtopic to be covered	Exercise/ Assignment	ICT Tools	Reference books
December	01/12/2025	06/12/2025	01	Slope stability and mass movements: causes		Smartboard, PPT, Videos, Flipped Classroom	1. Keller, E. A. (2012). Introduction to environmental geology. Pearson College Division. 63 2. Montgomery, C. W. (2013).
	08/12/2025	13/12/2025	01				
	15/12/2025	20/12/2025	00	Tarang			

	22/12/2025	23/12/2025	01	Mass movement: Impacts, preventive measures.		Environmental geology. McGraw- Hill Education. 3. Botkin, D. B., & Keller, E. A. (2011). Environmental science: Earth as a living planet. Wiley. 4. K. S. Valdiya (1987) Environmental Geology-Ecology, Resource and Hazard Management. McGraw-Hill Education (India) Private Limited.
January	02/01/2026	05/01/2026	00	NA		

**(On Study Leave from 6th January 2026)*

*** Assessment Rubrics**

Component	Max Marks
ISA 1	05
ISA 2	05
Practical	50
Project	--
Semester End Exam	40