

Semester Lecture Plan

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

Name of Faculty: Ms. Magnolia Aurea Miranda

Subject: Geology

Paper code: GEO 200, Structural Geology and Physical Geology

Program/Course: SY B.Sc.

Division:

Academic year: 2026 - 2027

Semester: III

Total Lectures: 45

Course Objectives:

1. Explain the structural characters in rocks. CL2
2. Describe relief features of the Earth. CL2
3. Classify landforms formed due to action of the rivers, wind, glaciers and oceans and seas. CL3

Course Learning Outcome:

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

1. Identify rock structures in the field. CL3
2. Identify the landforms in the field. CL3
3. Collect structural data of the rocks. CL4
4. Relate the structural features of the rocks with the landforms. CL3

Month	Lectures From: To:		No. of lectures allotted	Topic, Subtopic to be covered	Exercise/ Assignment	ICT Tools	Reference books
June	22/6/26	27/6/26	3	Contours, contour reading and contour patterns; Scale and compass bearing		Projector	M.P.Billings: Structural Geology
July	29/6/26	4/7/26	3	Stratification, Strike, Dip (true and apparent dip), Strike and Dip symbols.		Projector	

	06/7/26	11/7/26	3	Folds: Causes and geometric classification of folds; importance of folds		Projector	
	13/7/26	18/7/26	3	Joints: Geometric classification, importance; Faults: general characteristics,		Projector	
	20/7/26	25/7/26	3	Geometric Classification and importance of faults, Horst, Graben and Thrust faults.		Projector	
	27/7/26	1/8/26	3	Unconformities: Stages of development, types and importance of unconformities; Outliers, Inliers		Projector	
August	3/8/26	8/8/26	3	Scope and importance, Major relief features of the Earth, Characteristic features of mountain, plateaus and plains, general relief features of the ocean floor. Hypsographic curve.		Projector	Skinner, B. J., Porter, S. C., Park, J. J., & Park, J. (2004). The Dynamic Earth: An Introduction to Physical Geology
	10/08/26	15/8/26	3	Principle of Uniformitarianism Weathering and Erosion - physical, chemical and biological.		Projector	
	17/8/26	22/8/26	3	Rivers: development of a typical river		Projector	

				system, source and surface flow, erosion, transport, deposition			Skinner, B. J., Porter, S. C., Park, J. J., & Park, J. (2004). The Dynamic Earth: An Introduction to Physical Geology
	24/8/26	29/8/26	3	ISA/ Rivers: associated landforms.		Projector	
September	1/9/26	5/9/26	3	Geological work of groundwater and Karst topography			
	7/9/26	12/9/26	3	Glaciers: types and movements, formation and morphology, erosion, transport, deposition and resulting landforms		Projector	
	21/9/26	26/9/26	3	Wind: erosion, transport and deposition and resulting landforms,		Projector	
October	28/9/26	3/10/26	3	types of deserts and dunes, loess. Oceans and seas: Waves and currents, erosion,		Projector	
	5/10/26	10/10/26	3	Transport, deposition and resulting landforms.			

Assessment Rubrics

Component	Max Marks
ISA 1	7.5
ISA 2	7.5
Practical	25
Project	-
Semester End Exam	60