

Semester Lecture Plan

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

Name of Faculty: Shritesh Mhapsekar

Subject: Geology

Paper code: GEO 211; The Changing Earth

Program/Course: SY B.Sc.

Division:

Academic year: 2026- 2027

Semester: III

Total Lectures: 30

Course Objectives:

1. Discuss the processes involved in shaping the Earth's surface by natural agencies. CL2
2. Describe various erosional and depositional landforms. CL2

Course Learning Outcome:

1. Explain the processes of weathering, erosion, transportation and deposition by various agents. CL3
2. Interpret various landforms associated with work of wind and groundwater. CL3
3. Identify various landforms formed by action of rivers, glaciers and oceans and seas. CL3
4. Solve problems related to fluvial geomorphology. CL3

Month	Lectures From:	Lectures To:	No. of lectures allotted	Topic, Subtopic to be covered	Exercise/ Assignment	ICT Tools	Reference books
June	19/06/2026	21/6/2026	2	Introduction			

	22/6/2026	28/6/2026	2	Geological work of Wind			1. Monroe, S. J and Wicander R. (2014). The Changing Earth: Exploring Geology and Evolution.
				Generation of Winds, types and Characteristics of Deserts			
JULY	29/6/2026	5/7/2026	2	Sediment Transport			Brooks Cole Publishers. 2. Carlson, D.H., Plummer, C.C., McGeary, D. (2008). Physical Geology: Earth revealed. Higher Education. 3. McConnell, D., Steer, D., Knight, C., Owens, K., Park, L.
	6/7/2026	12/7/2026	2	Desert Landforms: Depositional; sand dunes, Sand Seas/Ergs			
				Playa, sabkha, loess			
	13/7/2026	19/7/2026	2	Erosional; Grooves, Ventifacts & Yardangs			
	20/7/2026	26/7/2026	2	mushroom rock, Inselbergs, Mesas and Buttes			
				Deflation Basin, Desert Pavement and Lag Gravel.			

August	27/7/2026	2/8/2026	2	Geological work of groundwater: Erosion: Karst Topography – Caves, Sinkholes, Solution Valleys, Disappearing Streams, Tower Karst.			(2008). The Good Earth – Introduction to Earth Science. Higher Education.
				Deposition: Speleothems – Stalactites, Stalagmites			
	3/8/2026	9/8/2026	2	Geological work of River: Drainage Basin and River System: Drainage Patterns.			
				Erosion by River: Erosional Features - Steep Valleys, Gorges, Potholes, Waterfall, Meander, Ox Bow Lake, Hogbacks, Cuestas			
	10/8/2026	16/8/2026	2	Erosion by River: Erosional Features - Steep Valleys, Gorges, Potholes, Waterfall, Meander, Ox Bow Lake, Hogbacks, Cuestas			
				Erosion by River: Erosional Features - Steep Valleys, Gorges, Potholes, Waterfall, Meander, Ox Bow Lake, Hogbacks,			

				Cuestas			
	17/8/2026	23/8/2026	2	Depositional Landforms by River; Floodplains, Deltas, Alluvial Fans.			
				Depositional Landforms by River; Floodplains, Deltas, Alluvial Fans.			
September	24/8/2026	30/8/2026	2	Geological work of Oceans and Seas: Waves and Currents,			
				Erosional Features - Sea-cliffs, wave-cut platform, sea-arches, sea-caves, sea-stacks.			
	31/8/2026	6/9/2026	2	Erosional Features - Sea-cliffs, wave-cut platform, sea-arches, sea-caves, sea-stacks.			
				Erosional Features - Sea-cliffs, wave-cut platform, sea-arches, sea-caves, sea-stacks.			
	7/9/2026	13/9/2026	2	Geological work of Glaciers: Erosional Features of Glaciers: Valley glacier - U-shaped Valleys, Cirques, Fjords.			

October				Geological work of Glaciers: Erosional Features of Glaciers: Valley glacier - U- shaped Valleys,		
	14/9/2026	20/9/2026	2	Ganesh break		
				Ganesh break		
	21/9/2026	27/9/2026	2	Cirques, Fjords.		
				Erosional Striations, Drumlins, Erratics.		
	28/9/2026	4/10/2026	2	Erosional Striations, Drumlins, Erratics.		
				Depositional Features of Glaciers - Glacial Drift; Till and Stratified Drift, Moraines.		
			2	Depositional Features of Glaciers - Glacial Drift; Till and Stratified Drift, Moraines.		
	12/10/2026	14/10/2026	2	Revision		
				Revision		
				Revision		

Component	Max Marks
ISA 1	7.5

Assessment Rubrics	ISA 2	7.5
	ISA 3	7.5
	Project	-
	Semester End Exam	60