

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-201; Principles of Stratigraphy and Palaeontology

Program/Course: SY B.Sc.

Division:

Academic year: 2026- 2027

Semester: III

Total Lectures: 17

Course Objectives:

1. 1. Describe the principles of stratigraphy. CL2
2. 2. Illustrate the modes of preservation of fossils. CL2
3. 3. Classify the fossils. CL2

Course Learning Outcome:

1. Explain the principles of stratigraphy. CL2
2. Explain modes of preservation of fossils. CL2
3. Classify various types of fossils. CL3
4. Correlate the stratigraphic sections. CL3

Month	Lectures From: To:		No. of lectures allotted	Topic, Subtopic to be covered	Learning outcome	ICT Tools	Reference books
July 2026	29/6/2026	5/7/2026	1	Introduction			1. Black, R. M. (1988). The elements of

	6/7/2026	12/7/2026	1	Stratigraphy: scope and importance			Palaeontology. Cambridge University Press. 2. Brookfield, M. E. (2008). Principles of Stratigraphy. John Wiley & Sons. 3. Clarkson, E. N. K. (2013). Invertebrate Palaeontology and Evolution. John Wiley & Sons.
	13/7/2026	19/7/2026	1	Principles of Stratigraphy: Laws of uniformitarianism, original horizontality, order of superposition			
	20/7/2026	26/7/2026	1	Principles of Stratigraphy: Laws of uniformitarianism, original horizontality, order of superposition			
	27/7/2026	2/8/2026	1	faunal succession			
August 2026	3/8/2026	9/8/2026	1	cross-cutting relationship, inclusions			
			1	Structural relations (tectonic criteria),			
	10/8/2026	16/8/2026	1	Lithological similarity (Marker horizon or key bed)			
	17/8/2026	23/8/2026	1	Paleontological criteria (Index fossils)			
	24/8/2026	30/8/2026	1	Standard Stratigraphic timescale			
	31/8/2026	6/9/2026	1	Standard Stratigraphic timescale			
	7/9/2026	13/9/2026	1	Indian stratigraphic timescale			
September 2026	14/9/2026	20/9/2026	1	Ganesh Break			
	21/9/2026	27/9/2026	1	Geological Time Units: - Eon, Era, Period, Epoch, Age, Phase.			

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October 2026	28/9/2026	4/10/2026	1	Chronostratigraphic Units: - Erathem, System, Series, Stage and Zone. Lithostratigraphic Units: - Group, Formation, Member, Bed and laminae
	5/10/2026	11/10/2026	1	Relative and Absolute Age. Radiometric Dating
	12/10/2026	14/10/2026	1	Relative and Absolute Age. Radiometric Dating

*Note: Data filled in the above form is sample data.