

Lecture Plan

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

Name of Faculty:Diksha Karapurkar

Subject: Geology

Paper code: GEO 201: Principles of Stratigraphy and Palaeontology

Program: S.Y.B.Sc.

Division: -

Academic year: 2025 - 2026

Semester: III

Total Lectures: 9

Course Objectives: The objectives of this course are to:

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

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

- 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	Lecture From	Lecture To	No. of lectures allotted	Topic, Subtopic to be covered	Exercise/ Assignment	ICT Tools	Reference books
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August	11/08/2025	17/08/2025	1	Structural relations (tectonic criteria)	Kahoot Quizzes, ISAs	Powerpoint Presentations, Illustrations, Interactive digital models,	1. Black, R. M. (1988). The elements of 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. 4. Doyle, P. (2014). Understanding fossils: An Introduction to Invertebrate Palaeontology. John Wiley & Sons. 5. Kumar, R. (1985). Fundamentals of Historical Geology and Stratigraphy of India. 6. Press, F., & Siever, R. (2001). Understanding Earth
August	18/08/2025	23/08/2025	1	Paleontological criteria (Index fossils),			
September	02/09/2025	06/09/2025	1	Standard Stratigraphic timescale; Indian stratigraphic timescale; Geological Time Units: - Eon, Era,			
September	08/09/2025	13/09/2025	1	Period, Epoch, Age, Phase.			
September	15/09/2025	20/09/2025	1	Chronostratigraphic Units: - Erathem, System, Series, Stage and Zone.			
September	22/09/2025	27/09/2025	1	Lithostratigraphic Units: - Group, Formation, Member, Bed and laminae.			
September - October	29/09/2025	04/10/2025	1	Relative and Absolute Age.			
October	06/10/2025	11/10/2025	1	Radiometric Dating.			
October	13/10/2025	17/10/2025	1	Revision			

* Assessment Rubrics

Component	Max Marks
ISA 1	7.5
ISA 2	7.5
ISA 3	7.5