

Lecture Plan

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

Name of Faculty:Diksha KarapurkarSubject: Geology

Paper code: GEO 111: Introduction to GeologyProgram: F.Y.B.Sc.Division: -

Academic year: 2025 - 2026Semester:ITotal Lectures: 14

Course Objectives: The objectives of this course are to:
1. Discuss the origin and various components of the Earth system.
2. Describe minerals and rocks using physical properties.

Course Outcomes:
At the end of the course, the student will be able to:
1. Distinguish between the layers of the Earth based on the structure and composition. CL1
2. Explain the Earth System. CL2
3. Identify the minerals based on their physical properties. CL3
4. Categorize different rock types. CL4

Month	Lecture From	Lecture To	No. of lectures allotted	Topic, Subtopic to be covered	Exercise/ Assignment	ICT Tools	Reference books
July	02/07/2025	05/07/2025	1	Origin, Shape, Size and	Kahoot Quizzes, ISAs	Powerpoint Presentations, Illustrations, Interactive digital models, Documentaries	1. Blyth, F. G. H., & de Freitas, M. H. (2018). Geology for engineers (3rd ed.). CRC Press.
July	07/07/2025	12/07/2025	1	Internal structure of the earth			
July	14/07/2025	19/07/2025	1	Introduction to Plate Tectonics			

July	21/07/2025	26/07/2025	1	Introduction to Plate Tectonics			2. Grotzinger, J. P., & Jordan, T. H. (2020). Understanding Earth. Macmillan Learning.
July - August	28/07/2025	02/08/2025	1	- Atmosphere: Structure and Composition,			3. Holmes, A. (2013). Principles of Physical Geology. Routledge.
August	04/08/2025	09/08/2025	1	- Atmosphere: Structure and Composition,			4. Klein, C., & Hurlbut, C. S. Jr. (2021). Dana manual of mineralogy. Wiley.
August	18/08/2025	23/08/2025	1	- Occurrence and distribution of water			5. Lutgens, F. K., Tarbuck, E. J., & Tasa, D. G. (2021). Essentials of geology(13th ed.). Pearson.
September	02/09/2025	06/09/2025	1	- Hydrological Cycle			6. Marshak, S. (2015). Earth science (14th ed.). John Wiley & Sons.
September	08/09/2025	13/09/2025	1	- Geosphere: Minerals and Rocks			7. Monroe, J. S., & Wicander, R. (2015). The changing earth: Exploring Geology and Evolution. Cengage Learning.
September	15/09/2025	20/09/2025	1	- Evolution of Life Through Geologic Time			8. Mukherjee, P. K., (2013). A Textbook of Geology. World Press.
September	22/09/2025	27/09/2025	1	- Cryosphere			9. Rutley, F. (2019). Rutley's Mineralogy. Routledge.
September - October	29/09/2025	04/10/2025	1	- Revision			10. Singh, P. (1978). A textbook of engineering and general geology (3rd ed.). S. Chand & Company Ltd.
October	06/10/2025	11/10/2025	1	- Revision			
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