Semester Lecture Plan

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

Name of Faculty: Delia Cardozo Subject: Geology

Paper code: GEC 110 Indian Stratigraphy Program/Course: TY B.Sc. Division:

Academic year: 2024- 2025 Semester: VI Total Lectures: 30

Course Objectives:

- 1. Students will acquire knowledge about stratigraphic principles.
- 2. Students will acquire knowledge about the distribution, lithology, stratigraphic sequence, structures and economics of different rock formations of India.
- 3. Students will acquire knowledge about the different geologic changes that occurred in the Indian subcontinent with time and correlate it with the other rock formations in the world.

Course Learning Outcome:

- 1. Students will be able to understand the mode of formation of different rock formations of India and correlating it with other formations will help in deciphering the geological history.
- 2. Students will be able to apply this stratigraphic principles during field investigations.
- 3. Students will be able to propose further refinement if needed in the already established stratigraphy of India.

Month	Lectures From:	Lectures To:	No. of lectures allotted	Topic, Subtopic to be covered	Exercise/ Assignment	ICT Tools	Reference books
December	9/12/2025	14/12/2024		Introduction to Stratigraphy		Smartboard,	1. Geology of India,GSI
				Geological Timescale:	PPT, Videos, Google maps		Volumes: Ramakrishnan,
			02	Archean		_ •	M and

	16/12/2025	23/12/2024	02	Geological Timescale: Proterozoic and Phanerozoic	
January	02/01/2025	04/01/2025	02	Tectonic and Physiographic divisions of India: Introduction Characteristics and pecularities	
	06/01/2025	11/01/2025	02	Peninsular India Extra-peninsular India	
	13/01/2025	18/01/2025	02	Indo-gangetic plains Stratigraphy of Peninsular India: Dharwar Supergroup	
	20/01/2025	25/01/2025	02	Dharwar Supergroup: distribution, lithology, Dharwar Supergroup: stratigraphic sequence	ISA: Assignment- Mapping of Geological formations of India
	27/01/2025	01/02/2025	02	Dharwar Supergroup: structures and economics,	
February	03/02/2025	08/02/2025	02	Peninsular Gneissic Complex	
	10/02/2025	15/02/2025	02	Goa Group of Rocks	

Vaidyanathan,
R.

- 2. Dunbars and Rodgers: Principles of Stratigraphy
- 3. Geology and Mineral Resources of Goa by A G Dessai, New Delhi publishers, 2018.
- 4. Natural
 Resources of
 Goa A
 Geological
 Perspective by
 Geological
 Society of Goa
 (2009).

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				Geology and		
				stratigraphy of		١
				Goa Group of		
				rocks.		
				Proterozoics of		
		22/02/2025		Peninsular India:		
	17/02/2025	02/2025		Introduction		
				Cuddapah		
			02	Supergroup		
	24/02/2025	01/03/2025		Cuddapah		
	24/02/2025		02	Supergroup: their		
				distribution		1
		00/02/2025		lithology,		
March	03/03/2025	08/03/2025		stratigraphic		
				sequence, structure		
			02	and economics.		
	10/03/2025	15/03/2025		Vindhyan		
	10/03/2025		01	Supergroup: their		
	1-10-1-0-	22/03/2025		distribution		
	17/03/2025	22/06/2020	02	lithology,		
		20/02/2025	02	- stratigraphic		1
	24/03/2025	29/03/2025		sequence, structure		
			02	and economics.		1
April	31/03/2025	05/04/2025		Kaladgi		
April 31/	31/03/2023		02	Supergroup; their		
				distribution		
	07/04/2025	11/04/2025		lithology,		
				stratigraphic		
				sequence, structure		I
			02	and economics.		

* Assessment Rubrics

Component	Max Marks		
ISA 1	10		
ISA 2	10		
Practical	50		
Project			
Semester End Exam	80		