Lecture Plan							
Name of the college: Government College of Arts, Science and Commerce, Sanquelim- Goa							
Name of Faculty: Dattaraj Jawdekar	Subject:GEOLOGY						
Paper code: GEO 111	Program: FYBSC	Division: -					
Academic year: 2024 - 2025	Semester: I	Total Lectures: 45					
The objectives of this course are to: 1. Discuss the origin and various components of the earth system. CL2 2. Describe minerals and rocks using physical properties. CL2							
Expected Course Outcome:							
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. CL2 2. Explain the Earth System. CL2 3. Identify the minerals based on their physical properties. CL3 4. Categorize different rock types. CL4							
Student Learning Outcome:							

Month	Lecture From	Lecture To	No. of lectures allotted	Topic, Subtopic to be covered	Exercise/ Assignm ent	ICT Tools	Reference books
Dec	09/12/	12/ 14/12/20	2	Introduction			
	2024	4	Introduction to Planetary Geology, Origin of the earth: Nebular Hypothesis; Shape, Size, Structure of the earth,		Chalk and Board, Videos, GIFs	Web	
10 2/	16/12/ 202	21/12/2 024	4	Introduction to Plate Tectonics.		Chalk and Board, Hands on	Carla Montgomery
	2/1/20 25	11/1/20 25	4	Introduction to Plate Tectonics.		Chalk and Board, Field photographs	Carla Montgomery
Jan/Feb	13/01/ 202	18/01/2 025	4	Water Cycle and Atmosphere Definition and Properties of Minerals		Chalk and Board, Field photographs	Mineralogy by Dexter Perkins
	20/01/ 2025	25/01/2 025	4			Chalk and Board, Demonstrations, GIFS, Models	Mineralogy by Dexter Perkins
	27/01/ 2025	1/02/20 25	4	Minerals and Mineral groups		Chalk and Board, Demonstrations, GIFS, Models	Mineralogy by Dexter Perkins

	3/02/2 025	8/02/20 25	4	Minerals and Mineral rocks	Chalk and Board, Demonstrations, GIFS, Models	Mineralogy by Dexter Perkins
	10/2/2 025	15/02/2 025	4	Petrology, Rock Cycle, Mode of occurrence of Ign rocks	Chalk and Board, Demonstrations, GIFS, Models	Igneous and Metamorphic Petrology by John D Winter
Feb	17/02/ 202 5	22/02/2 025	4	Structures and textures of Igneous rocks	Chalk and Board, Demonstrations, GIFS, Models	Igneous and Metamorphic Petrology by John D Winter
	24/02/ 2025	1/03/20 25	4	Bowen's Reaction Series, Classification of Ign rocks	Chalk and Board, Demonstrations, GIFS, Models	Igneous and Metamorphic Petrology by John D Winter
	3/03/2 025	8/03/20 25	4	Sedimentary rocks: Introduction, Textures, Structures and Classification	Chalk and Board, Demonstrations, GIFS, Models, Field Trip	Sedimentary rocks in the field by Maurice Tucker
	10/03/ 202 5	15/03/2 025	4	Metamorphic rocks: Definition, Agents	Chalk and Board, Demonstrations, GIFS, Models, Field Trip	Igneous and Metamorphic Petrology by John D Winter
March	16/03/2 025	23/03/25	4	Textures/ Structures and classification	Chalk and Board, Demonstrations, GIFS, Models	Igneous and Metamorphic Petrology by John D Winter

	23/03/2 05	29/03/20 25	4	Origin of life and evolution, Mineral groups: Olivine/ PYROXENE	Chalk and Board, Demonstrations, GIFS, Models	Mineralogy by Dexter Perkins
APRIL	31/03/2 05	05/04/20 5	4	Quartz/ Feldspars	Chalk and Board, Demonstrations, GIFS, Models	Mineralogy by Dexter Perkins
	07/04/2 05	13/04/20 5	4	Plate boundaries and types of activities	Chalk and Board	Plate tectonics and crustal evolution by Condie

*Assessment Rubrics

Component	Max Marks		
ISA 1	7.5		
ISA 2	7.5		
Practical	25		
Project	-		
Semester End Exam	60		