# Lecture Plan

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

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| **Name of Faculty:** Dattaraj Jawdekar | **Subject:GEOLOGY** | |
| **Paper code:** GEO 200 | **Program: S**YBSC | **Division: -** |
| **Academic year:** 2024 - 2025 | **Semester:** III | **Total Lectures: 45** |

**Course Objectives:**

1. Explain the structural characters in rocks. CL2
2. Describe relief features of the Earth. CL2
3. Classify landforms formed due to action of the rivers, wind, glaciers and oceans and seas. CL3

**Expected Course Outcome:**

1. Identify rock structures in the field. CL3
2. Identify the landforms in the field. CL3
3. Collect structural data of the rocks. CL4
4. Relate the structural features of the rocks with the landforms. CL3

| Student Learning Outcome: | | | | | | | |
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| **Month** | **Lecture From** | **Lecture To** | **No. of lectures allotted** | **Topic, Subtopic to be covered** | **Exercise/ Assignment** | **ICT Tools** | **Reference books** |
| June | 28/06/2024 | 29/06/2024 | 1 | INTRODUCTION | | | |
| July | 01/07/2024 | 06/07/24 | 3 | **Contours, contour reading and contour patterns** | | Chalk and Board, Hands on | **Field Geology by Lahee** |

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| July | 08/07/2024 | 13/07/24 | 3 | Scale and compass bearing, Stratification, Strike, Dip (true and apparent dip), Strike and Dip symbols. Folds: Causes and geometric classification of folds; importance of folds | | Chalk and Board, Hands on | **Field Geology by Lahee** |
| July | 15/07/2024 | 20/07/24 | 3 | Joints: Geometric classification, importance; Faults: general characteristics, geometric classification and importance, Horst, Graben and Thrust faults; | | Chalk and Board, Field photographs | **Structural Geology by MP Billings** |

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| July | 22/07/2024 | 27/07/24 | 3 | Unconformities: Stages of development, types and importance of unconformities; Outliers, Inliers. | | Chalk and Board, Field photographs | **Structural Geology by MP Billings** |
| July | 29/07/2024 | 03/08/24 | 3 | Major relief features of the Earth, Characteristic features of mountain, plateaus and plains, general relief features of the ocean floor. | | Chalk and Board, Demonstrations, GIFS, Models | **Physical Geology** |
| July | 05/08/2024 | 10/08/24 | 3 | Weathering and Erosion - physical, chemical and biological. | | Chalk and Board, Demonstrations, GIFS, Models | **Physical Geology** |

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| August | 12/08/2024 | 17/08/24 | 3 | Rivers: development of a typical river system, source and surface flow, erosion, transport, deposition and associated landforms. | | Chalk and Board, Demonstrations, GIFS, Models | **Physical Geology** |
| August | 19/08/2024 | 24/08/24 | 3 | Rivers: development of a typical river system, source and surface flow, erosion, transport, deposition and associated landforms. | | Chalk and Board, Demonstrations, GIFS, Models | **Physical Geology** |

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| August | 26/08/2024 | 31/08/24 | 3 | Wind: erosion, transport and deposition and resulting landforms, types of deserts and dunes, loess. | | Chalk and Board, Demonstrations, GIFS, Models | **Physical Geology** |
| September | 02/09/2024 | 07/09/24 | 3 | Wind: erosion, transport and deposition and resulting landforms, types of deserts and dunes, loess. | | Chalk and Board, Demonstrations, GIFS, Models | **Physical Geology** |
| September | 09/09/2024 | 14/09/24 | 0 | CHATURTHI BREAK | | | |

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| September | 16/09/2024 | 21/09/24 | 3 | Wind: erosion, transport and deposition and resulting landforms, types of deserts and dunes, loess. | | Chalk and Board, Demonstrations, GIFS, Models | **Physical Geology** |
| September | 23/09/2024 | 28/09/24 | 3 | Geological work of groundwater and Karst topography, Glaciers: types and movements, formation and morphology, erosion, transport, deposition and resulting landforms. | | Chalk and Board, Demonstrations, GIFS, Models | **Physical Geology** |
| September/ October | 30/09/2024 | 05/10/24 | 3 | Glaciers: types and movements, formation and morphology, erosion, transport, deposition and resulting landforms. | | Chalk and Board, Demonstrations, GIFS, Models | **Physical Geology** |

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| October | 07/10/2024 | 12/10/24 | 3 | Oceans and seas: Waves and currents, erosion, transport, deposition and resulting landforms. | | Chalk and Board, Demonstrations, GIFS, Models | **Physical Geology** |
| October | 14/10/2024 | 19/10/24 | 3 | Hypsographic curve. Principle of Uniformitarianism | | Chalk and Board | **Physical Geology** |
| October | 21/10/2024 | 22/10/2024 | 1 | Revision | | | |

***Assessment Rubrics**

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