

## INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR

1. **Name of the Academic Unit:** Geology and Geophysics

2. **Subject Name:** Introduction to Earth Science **L-T-P:** 0-3-3 **Credits:** 2

3. **Pre-requisites:** None

4. **Syllabus and reference books:**

**Syllabus:** Study of crystal models and problem solving through stereographic projection. Identification of minerals from their physical properties. Rocks as natural aggregates of minerals. Study of topographic maps and aerial photographs and interpretation of landforms, simple geological maps and relationship of topography and structure. Description and use of a clinometer.

**Reference Books:**

Material prepared in-house. Referred material will be provided when required.

5. **Lecture-wise break-up:**

Sl. No.	Topic	No. of lectures
1.	Crystallography	9
2.	Identification of minerals and rocks in hand specimen	15
3.	Map interpretation	15
4.	Use of clinometer	3
Total number of hours		42