

2/4 B.Tech. THIRD SEMESTER

CE3L3

ENGINEERING GEOLOGY LAB

Credits: 2

Lecture: --

Internal assessment: 25marks

Lab : 3 periods/week

Semester end examination: 50 marks

Objectives:

- To acquire practical Knowledge on geology and on various types of rocks and minerals.

Learning outcomes:

After performing the experiments listed in the syllabus, the students will have:

- Ability to categorize rocks and minerals by their origin and engineering properties.
- Ability to apply geological principles to rock masses and discontinuities for use in engineering design e.g. rock slopes, foundation.

LIST OF EXPERIMENTS:

1. Study of physical properties and identification of minerals referred under theory.
2. Megascopic description and identification of rocks referred under theory.
3. Interpretation and drawing of sections for geological maps showing tilted beds, faults, uniformities etc.
4. Simple Structural Geology problems.

LAB EXAMINATION PATTERN:

1. Description and identification of SIX minerals
2. Description and identification of Six (including igneous, sedimentary and Metamorphic rocks)
3. Interpretation of a Geological map along with a geological section.
4. Simple strike and Dip problems.