2/4 B.Tech. THIRD SEMESTER

ENGINEERING GEOLOGY LAB

Credits: 2

Lecture: -

CE3L2

Lab : 3 periods/week

Internal assessment: 25marks Semester end examination: 50 marks

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<u>Pre-requisites</u>: Engineering geology

Learning objectives:

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

Course outcomes:

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

- 1. Ability to categorize rocks and minerals by their origin and engineering properties.
- 2. 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.