ENGINEERING GEOLOGY LAB

Course Code: 22CE1104	**L**	**T**	**P**	**C**
	0	**0**	**3**	**1.5**

Course Outcomes:

At the end of the course the student will able to:
CO1: Identify various minerals and their properties (L3)
CO2: Identify various rocks and their properties (L3)
CO3: Determine the strike and dip of beds (L3)
CO4: Show sections for the geological maps with structural deformations (L3)
CO5: Show outcrop of the beds for the given data and draw the sections (L3)

(Any 12 out of 14 experiments)

LIST OF EXPERIMENTS:

1. Study of physical properties and identification of Rock forming minerals.
2. Study of physical properties and identification of Economic minerals.
3. Megascopic description and identification of Igneous rocks.
4. Megascopic description and identification of Sedimentary rocks.
5. Megascopic description and identification of metamorphic rocks.
6. Structural geology problems- Thickness of Beds
7. Structural geology problems- Strike and Dip
8. Structural Geology problems – Faults
9. Structural Geology problems – Bore Hole on three point problems
10. Interpretation and drawing of sections for geological maps showing Normal beds
11. Interpretation and drawing of sections for geological maps showing Tilted beds
12. Interpretation and drawing of sections for geological maps showing Fault beds.
13. Interpretation and drawing of sections for geological maps showing Folded beds.
14. Completion of outcrop for the given data of beds of different thicknesses.

Reference:

Chennakesavulu, N., Engineering Geology Lab Record / Manual, Ist Edition, Laxmi Publications Pvt Ltd, Trinity Press, 2017.