

Engineering Geology Lab

Objective: Engineering Geology helps to understand the nature of geological information which is absolutely essential for a safe design and construction of a civil engineering projects.



Sections Handled: III-A , III-B

Major Equipment Details:

Sl.No	Equipment Name	Qty
1.	Rock Forming Mineral Specimens	150
2.	Hardness collection : Set of 9 Minerals	1set
3.	Lustre Collection : Set of 10 minerals	1set
4.	Cleavage Collection : Set of 10 minerals	1set
5.	Specific Gravity Collection : Set of 10 minerals	1set
6.	Streak Collection: Set of 10 minerals	1set
7.	Pen Knives, Pocket lens	4 No
8.	Streak Plates	20 No
9.	Structural Geology Models	17 No
10.	Plastic Specimen Trays	150 No
11.	Round Magnet 36mm dia	4 No

Faculty In charge with qualification: M.Vinnela - M.Tech

Lab Technical name with qualification:

Experiment list as per curriculum:

1. Mega-scopic identification and description of physical properties of rock forming minerals.
2. Mega-scopic identification and determination of physical properties of ore forming 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. Interpretation and drawing of sections for geological maps showing tilted beds, faults, unconformities etc.
7. Solving Simple Structural Geology problems by identification of strike and dip on the profile of the maps.
8. Solving problems related to Bore hole data.
9. Determination of strength of rocks
10. Field work Identification of Minerals, Rocks, Geomorphology & Structural Geology.

Experiment list beyond the curriculum

1. Study and identification of structural models