

Shri Vishnu Engineering College For Women :: Vishnupur :: Bhimavaram

Department of Civil Engineering

Engineering Geology Laboratory

Course Objective:

The main objective is to teach how to appreciate and identify geologic features that could have short and long-term consequences to the overall performance of various engineering structures and projects that you might encounter in your engineering career. In order to do that, one should learn some fundamentals of geology.



Laboratory Contains

Minerals Specimens

Rock Specimens

Maps

Models

LIST OF EXPERIMENTS:

1. Physical properties of minerals: Mega scopic identification of

- a) Rock forming minerals – Quartz group, Feldspar group, garnet group, mica group, & talc, Chlorite, olivine, kyanite, asbestos, tourmelene, calcite, gypsum, etc...
- b) Ore forming minerals –magnetite, hematite, pyrite, pyralusite, graphite, chromite, etc...

2. Mega scopic description and identification of rocks:

- a) Igneous rocks – Types of granite, pegmatite, gabbro, dolerite, synetie, Granite, poryphery, Basalt, etc.
- b) Sedimentary rocks – sand stone, ferrugineous sand stone, lime stone, shale, laterite, conglamorate, etc.
- c) Metamorphic rocks – biotite-granite gnesis, slate, muscovite & biotiteschist, marble khondalite, etc.

3. Interpretation and drawing of section for geological maps showing tilted beds, faults,

Unconformities, etc.

4. Simple Structural Geological problems.