

20PEB108P					GEOLOGY FOR PETROLEUM ENGINEERS PRACTICAL					
Teaching Scheme					Examination Scheme					
L	T	P	C	Hours/Week	Theory			Practical		Total Marks
					MS	ES	IA	LW	LE/Viva	
0	0	2	1	2	0	0	0	50	50	100

COURSE OBJECTIVES

- Demonstrate the unique characteristics of various rocks.
- Develop analytical skills to identify various rock specimens.
- Imbibe skills to prepare geological maps.
- Enhance the ability to perform geological studies before reservoir modelling.

LIST OF EXPERIMENTS

Hours: 10

1. Study of Crystal: Clinographic projection of cube
2. Study of common silicates in Hand Specimens: Quartz, Feldspar, Mica, Garnet, kyanite, Sillimanite
3. Study of Other Minerals in Hand Specimen: Graphite, Gypsum, Barite, Calcite, Aragonite, Corundum, haematite
4. Study of common Igneous Rocks in Hand Specimens: Granite, Basalt, Rhyolite, Syenite, Dolerite, Gabbro
5. Study of common Metamorphic Rock in Hand Specimen: Slate, Phyllite, Schist (Mica, Talc, Chlorite), Gneiss, Marble, Quartzite
6. Study of common Sedimentary Rock in Hand Specimen: Shale, Siltstone, Sandstone, Conglomerate, Breccia, Limestone
7. Study of Thin Sections of Minerals (quartz, feldspar, mica, pyroxene) & Rocks (Granite, Basalt, Gabbro, Schist, Shale, Sandstone, Limestone)
8. Study of Selected Fossils in Hand Specimen
9. Study of Topographic & Geological Maps

COURSE OUTCOMES

On completion of the course, student will be able to

CO1- Identify and classify different rock forming minerals

CO2- Identify and classify various Igneous, Sedimentary and metamorphic rocks.

CO3- Interpret and differentiate between different fossil groups for reconstructing paleoenvironment of the studied rocks.

CO4- Analyse the structural maps and evaluate the structural deformation in the map area;

CO5- Correlate the rock types and geological structures with the some aspects of petroleum systems

END SEMESTER EXAMINATION QUESTION PAPER PATTERN

Max. Marks: 100

Exam Duration: 3 Hrs.

PART A:

PART B: