

19PEM112					Geology for Reservoir Description 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	-	-	-	50	50	100

COURSE OBJECTIVES

- Demonstrate the concepts of Geoscience.
- Develop skills to predict lithology of Hydrocarbon bearing reservoirs.
- Develop Skills to identify and evaluate reservoir geology, its lithology, structure, Petrophysics etc.
- Imbibe and integrate the geological knowledge for reservoir description.

List of Experiments

- 1) Identification of Common rock forming minerals in hand specimens.
- 2) Identification of Common Sedimentary rocks in hand specimens.
- 3) Identification of Common Igneous rocks in hand specimens.
- 4) Identification of Common Metamorphic rocks in hand specimens.
- 5) Study of Rocks and minerals under thin sections.
- 6) Sedimentary grain size analysis and interpretation
- 7) Preparing and interpreting Contour maps (Isopach, Isocore etc).
- 8) Reconstructing and interpretation of geological cross section
- 9) Stratigraphic and structural interpretation from geological cross section
- 10) Lithological correlation and fence diagram

TEXT / REFERENCE BOOKS

- 1) Gokhale, N. M., 1991 A manual of problems in structural geology
- 2) Lisle, R., 2020., Geological Structures and Maps, 4th Edition
- 3) Dixon, D., 1992., The Practical Geologist: The Introductory Guide to the Basics of Geology and to Collecting and Identifying Rocks