Course Type	Course Code	Name of Course	L	T	P	Credit
DP8	PEC309	Reservoir Characterization Lab	0	0	2	2

Course Objectives:
i.   To provide on-hand training of different oil and gas filed operations.
ii.   To provide the basic knowledge of different oil and gas field simulators.

Learning Outcomes:
i.   Exposure of different field simulators.
ii.   Practical aspects with hands-on working on oil field commercial simulators

COURSE CONTENT:

Exp. No.	Name of the Experiment	Contact Hrs
1.	Oil well bore performance of a vertical well.	2
2.	Gas well bore performance of a vertical well.	2
3.	Optimization of well bore performance: Tubing Size, Well head pressure etc.	2
4.	Performance prediction of a depletion drive reservoir using material balance	2
5.	Performance prediction of a water drive reservoir using material balance	2
6.	Phase behaviour of reservoir fluids: Phase envelope generation of HC mixtures and associated calculation.	2
7.	Black oil reservoir simulation in a 2-D system.	2
8.	Modelling and optimization of surfactant flooding process.	2
9.	Well test data interpretation in oil wells	2
10.	Basic well log interpretation: Identification of pay zone and calculation of saturation	2
11.	Oil well bore performance of a vertical well.	2