

Course Type	Course Code	Name of Course	L	T	P	Credit
DP7	PEC308	Enhanced Oil Recovery Lab	0	0	2	2

Course Objective

Exposure of Effect of different treatments in the oil fields to enhance the oil production.

Learning Outcomes

Understanding different experimentation and their suitability to increase the mobility of the oil in the reservoir.

COURSE CONTENT:

Exp. No.	Name of the Experiment	Contact Hrs
1.	Experimental study on Ternary phase diagram	2
2.	Measurement of oil recovery by water flooding	2
3.	Measurement of interfacial tension between oil and water by pendant drop method	2
4.	Measurement of dynamic surface tension: Effect of temperature and salinity	2
5.	Wettability alteration study of oil saturated rock in presence of surfactant	2
6.	Unsteady/Steady state porosity and permeability measurement	2
7.	Salinity scan studies on relative phase volumes of oil/brine/surfactant system	2
8.	Rheology study of polymer using brookfield viscometer	2
9.	Foam stability analysis by Bartsch (Shaking) method	2
10.	Determination of thermodynamic parameters by conductometric analysis of aqueous surfactant solutions	2