PE-103 Fundamentals of Petroleum Engineering

Introduction: Petroleum engineering and petroleum industry.Origin, discovery, development and future prospects of Hydrocarbons.Petroleum play. Distribution of petroleum resources on local and international level.Important units.

Reservoir: Reservoir rock and flow properties.Introduction to Formation evaluation.

Drilling: The onshore and offshore operations. The rig functions, introduction to well planning, bits, introduction of drilling fluid and casing accessories.

Production: Introduction to production, processing and transportation. Well completion. Flow in pipes and surface production facilities. Introduction to Production forecasting, reserve categories. Environmental concerns. Corrosion and its control.

Recommended book(s)

Text Books:

1. John R. Fanchi , Richard L. Christiansen, "Introduction to Petroleum Engineering", 1st Edition, Wiley, 2016.

Reference Books:

1. AndrewClennel Palmer, "Introduction To Petroleum Exploration And Engineering", 1st Edition, World Scientific, 2016.