

Introduction to the lecture



- > This lecture provides an overview of the journey of fossil fuel from field to market.
- This lecture discusses the key concepts such as exploration and survey for fossil fuel in terms of geology, rock formation, porosity, permeability, seismic technology.
- > It also introduces the way of retrieving oil in the field through permitting, drilling, well completion and casing well and cementing in the field.

Introduction to the lecture



This lecture provides an overview of planning production of oil in the field, shipping crude oil, refining through distillation, processing and preparation to market and finally shipping petroleum products.





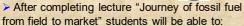
Aim and Learning outcomes



- > The aim of the lecture is to provide a brief concept to understand the importance of fossil fuel and its journey from field through production to market by shipping.
- After completing lecture "Journey of fossil fuel from field to market" students will be able to:
 - > Understand the exploration process of fossil fuel in the field i.e. geology, rock formation, porosity and permeability, geological history.

Aim and Learning outcomes





- ➤ Know the process of retrieving fossil fuel in the field through several procedures i.e. drilling, well completion, casing, cementing.
- Know about fossil fuel production in onshore and offshore through several process i.e. cleaning oil, shipping crude oil, refining (distillation, processing) and finally to market.

alk outline



Exploration and Survey

- ➤ Geology
- > Rock Formation
- > Porosity & Permeability
- > Seismic technology

Retrieving the Oil

- ➤ Permitting & Leasing land
- ➤ Drilling
- > Well completion
- Casing well & Cementing



Production

- ➤ Subsea operation
- ➤ Cleaning oil



