

Course Type	Course Code	Name of Course	L	T	P	Credit
OE5	PEO403	Transportation and Marketing of Petroleum and Petroleum Products	3	0	0	9

**Course Objective**

The objective of the course is to provide the proper knowledge of the transportation and marketing of the petroleum and petroleum products ensuring the profitability.

**Learning Outcomes**

Exposure of the global scenario of quality and quality control of the petroleum and petroleum products.

Unit No.	Topics to be Covered	Lecture Hours	Learning Outcome
1	Indian and Global supply scenario of petroleum and petroleum products. Product quality control. Bulk distribution and handling-domestic, commercial and industrial.	4	Overall idea on supply, consumption and distribution of petroleum and petroleum products
2	Pricing Mechanisms of crude oil and natural gas. Role of International oil companies and OPEC pricing mechanism. Spot and other market control mechanism.	5	Pricing Mechanisms of crude oil and natural gas
3	Administered and market determined pricing mechanism in India. Conservation of petroleum & its products, Government & Industry regulatory norms influencing petroleum product marketing.	5	Role of Govt. on price mechanisms of petroleum products
4	Rules and Regulations for transportation of Crude oil, Natural Gas and other Petroleum products. Traffic management, Fire and safety rules.	4	Rules on safety issues of petroleum and petroleum products during storage and transportation
5	Mode of Transportation of petroleum & petroleum products.	4	Transportation of petroleum & petroleum products.
6	Pump and compressor stations. Instrumentation and control.	4	Equipment and instruments associated with the transportation
7	<b>Metering and Measurements:</b> Metering of oil & gas, Orifice and other metering devices and systems. Multiphase flow meter. Tank gauging. Sampling and Testing of crude oil. Water and sediment determination.	6	Metering of oil & gas
8	Product quality control. Marketing Organizations and Retail Infrastructure	4	Quality control of oil & gas
9	Bulk distribution and handling-domestic, commercial and industrial petroleum products, distribution network, marketing location management of petroleum products.	6	Distribution of petroleum products
<b>Total contact hours:</b>		<b>42</b>	

**Text Books:**

- Production and transport of oil and gas, Volume 3: A P Szilas
- Production and transport of oil and gas, Volume B : Gathering & Transportation (Developments in Petroleum Science) 2<sup>nd</sup> Edition: A P Szilas

**Reference Books:**

- Petroleum Pipelines : A Handbook of Onshore and Gas Pipeline: Sanjoy Chanda
- Petroleum Marketing and Transportation : New Ideas, New Method, New Developments Gulf Publishing Company
- Petroleum Marketing Practices and Problems: William Henry Day