

GUJARAT TECHNOLOGICAL UNIVERSITY

M.E. Chemical Engineering

Semester: I

Subject Name: **Advance Petroleum Refining (Major elective – I)**

Sr.No	Course content
1.	Production of Crude in India. Refining capacity of India.
2.	Petroleum Refining : Refining by Physical Methods, by Chemical Conversion process and refining with chemicals.
3.	Thermal and Catalytic Processes:- Cracking , Reforming, Vis breaking , Coking
4.	Additional Processes like Isomerization , Alkylation & Polymerization
5.	Advancement in Refining Processes

Textbooks:

1. Petroleum Refining Engineering by W.L. Nelson, McGraw-Hill International

Reference Books:

1. Petroluem Refining By James Speight
2. Advanced Petroleum Refining by G.N.Sarkar , Khanna Publishers
3. Petroleum Refining Technology by Ram Prasad, Khanna Publishers
4. Petroleum Refinery Process Economics by R.E. Maples, PennWell Corporation