

IC (209)341 Petrochemical Industry

3(3/3-0/0)

Abbreviation -

Prerequisite CHEM 203 and CHEM 207 and IC 201

This course is opened for MAJOR ELECTIVE COURSE

Course Description

Raw materials, petroleum distillation and petrochemical processes, natural gas separation, chemical production from non-hydrocarbon substances, chemical production from hydrocarbon substances, olefin production, chemical production from benzene, toluene and xylene, and petroleum distillation system design.

Objective

Students will be able to understand basic principles of petrochemical industries.

Course Content**Lecture Hours**

1. Introduction	1
2. Raw materials	5
3. Petroleum distillation and petrochemical processes	6
4. Natural gas separation	5
5. Chemical production from non-hydrocarbon substances	4
6. Chemical production from hydrocarbon substances	8
7. Olefin production	4
8. Chemical production from benzene, toluene and xylene	2
9. Petroleum distillation system design	10
9.1 Compressor	
9.2 Reboiler	
9.3 Steam generator	

Total	<hr/> 45 <hr/>
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