

Department of Industrial Chemistry

Faculty of Science

IC (209)342 Petrochemical Laboratory

1(0/0-1/3)

Abbreviation -

Prerequisite IC 341 or concurrent to IC 341

This course is opened for MAJOR ELECTIVE COURSE

Course Description

Fractional distillation of crude oil, fractional distillation of petroleum distillate, thermal cracking of petrochemical product, catalytic cracking of petrochemical product, oxidation of ammonia, dehydrogenation of ethylbenzene, dehydration and dehydrogenation of ethanol, partial oxidation of methane and synthesis of ester.

Objectives

Students will be experienced with experiments involving petrochemical processing

Laboratory Topics

Laboratory hours

1. Fractional distillation of crude oil	3
2. Fractional distillation of petroleum distillate	6
3. Thermal cracking of petrochemical product	6
4. Catalytic cracking of petrochemical product	6
5. Oxidation of ammonia	3
6. Dehydrogenation of ethylbenzene	6
7. Dehydration and dehydrogenation of ethanol	6
8. Partial oxidation of methane	6
9. Synthesis of ester	3
Total	<hr/> 45 <hr/>