Department of Industrial Chemistry

Faculty of Science

IC (209)203 Elementary Industrial Chemistry 3(3/3-0/0)

Abbreviation ELEM IND CHEM

Prerequisite CHEM 104 and CHEM 108

This course is opened for MAJOR ELECTIVE COURSE

Course Description

Basic techniques in industrial chemistry, operations of boilers, compressors, pumps, temperature measuring device, valves and gauges, automatic control system, production processes, preparation, properties and activities of catalysts in chemical reactions, control and management of pollutants in industries, safety in industries, patents and intellectual properties.

Objective

Students will be able to understand basic principles of equipment, processes in industrial chemistry and chemical plant management.

Course Content		Lecture Hours
1. Basic techniques in industrial chemistry		3
2. Operations of boilers, compressors, pumps, temperature measuring device	e,	6
valves and gauges		
3. Automatic control system		6
4. Production processes		10
4.1 Petroleum and Petrochemicals		
4.2 Plastics		
4.3 Metals		
4.4 Ceramics		
5. Preparation, properties and activities of catalysts in chemical reactions		6
6. Control and management of pollutants in industries		6
7. Safety in industries		6
8. Patents and intellectual properties		2
	Total	45