

Planning and Quality Assurance Affairs

Form (A)

Course Specifications

General Information

Course name Industrial Chemistry

Course number CHEM4234

Faculty

Department

Course type College Needs

Course level

Credit hours (theoretical) 2

Credit hours (practical) 0

Course Prerequisites

Course Objectives

1 - 1. To teach the student how chemical organic and inorganic compounds are manfactured and work in industry

2 - To teach students the different methods used to prepare the different chemical, which consider the back-bone of the industry.

Intended Learning Outcomes

Knowledge and Understanding	*	Students will be able to understand the objective of their chemical industrial
		process
	*	Students able to work with the local industrial.

Course Contents

- 1 This course is designed to study a number of inorganic and Organic industries that are useful for our daily life such as:-
- 2 The General Principles of Industrial Chemistry
- 3 the characteristics of effective and successful industrial processes.
- 4 Manufacture of Ammonia (NH3) and Urea (CO(NH2)2)2.
- 5 _ Manufacture of Nitric Acid (HNO3) and Calcium Ammonium Nitrate (CAN)
- 6 manufacture of sulfuric acid and its derivatives
- 7 manufacture of phosphoric acid and phosphate fertilizer
- 8 For organic the couse inclues the petrochemicals, plastics, fibers, paper, soap detergents and cosmetics industries.

Teaching and Learning Methods

- 1 Teaching using powerpoint
- 2 Teaching on board
- 3 students activities
- 4 Asking and answering dusring the discussion

Students Assessment

Assessment Method	<u>TIME</u>	<u>MARKS</u>
mid term exam (1)	1h	20
mid term exam (2)	1h	20
quizes exam	30 mint	10
final exam	2h	50

Books and References

Essential books	Industrial Chemistry, By: B.K.Sharma	
-----------------	--------------------------------------	--