

Planning and Quality Assurance Affairs

Form (A)

Course Specifications

General Information

Course name	Environment Chemistry
Course number	CHEM4232
Faculty	
Department	
Course type	College Needs
Course level	4
Credit hours (theoretical)	2
Credit hours (practical)	0
Course Prerequisites	

Course Objectives

- 1 - expand the knowledge of students in the field of air, soil and water pollution.
- 2 - students will expand their knowledge and awareness in the environmental issues

Course Contents

- 1 - This course covers air and water pollution including sources of air pollution, constituents of air atmosphere and air pollutants, photochemical oxidants, carcinogens and aeroallergens..etc. greenhouse effect, sampling air pollutants acid rain and ozone hole. Water pollution, types of environmental chemical analysis, choosing proper methods and conditions for environmental trace analysis, physical and chemical parameters for water quality including COD and BOD. Sources of water pollution including domestic, industrial, and agricultural waste water. Factors affect and allowed the degree of harmfulness. Toxicity and sources of pollution of some interesting elements. Study some cases of water pollutant. Advanced waste water treatment process.

Teaching and Learning Methods

- 1 - lecture performance

Students Assessment

<u>Assessment Method</u>	<u>TIME</u>	<u>MARKS</u>
Med-term exam	7th week of the course	40%
final exam	14th week of the course	60%

Books and References

Course note environmental pollution chemistry - Dr. Mazen Hamada