

Planning and Quality Assurance Affairs

Form (A)

Course Specifications

General Information

Course name	Analytical Chem.(Speacial Topics)
Course number	CHEM4229
Faculty	
Department	
Course type	College Needs
Course level	4
Credit hours (theoretical)	2
Credit hours (practical)	0
Course Prerequisites	

Course Objectives

1 - Student will have knowledge about water sampling, liquid-liquid phase extraction, solid -Phase extraction and learning the principles of separation and determination methods.

Intended Learning Outcomes

Knowledge and Understanding	* increase the knowledge and skills of students in special topics of analytical chemistry
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Course Contents

1 - This course involves different topics in analytical chemistry including chemical separation such as gas chromatography, High performance liquid chromatography, Supercritical fluid chromatography, paper chromatography, thin layer chromatography, ion exchange chromatography, mass spectrometry and Nuclear magnetic resonance (NMR)

Teaching and Learning Methods

1 - lecture performance

Students Assessment

<u>Assessment Method</u>	<u>TIME</u>	<u>MARKS</u>
first midterm exam	1h	20%
second midterm exam	1h	20%
Homworks and presentations	-----	10%
final exam	2h	50%

Books and References

Course note	special topics in analytical chemistry - Dr. Mazen Hamada
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