27212 - Analytical Chemistry II

Información del Plan Docente

Academic Year	2016/17
Academic center	100 - Facultad de Ciencias
Degree	452 - Degree in Chemistry
ECTS	12.0
Course	3
Period	Annual
Subject Type	Compulsory
Module	---

1.Basic info

1.1.Recommendations to take this course

1.2.Activities and key dates for the course

2.Initiation

2.1.Learning outcomes that define the subject

2.2.Introduction

3.Context and competences

3.1.Goals

3.2.Context and meaning of the subject in the degree

3.3.Competences

3.4.Importance of learning outcomes

4.Evaluation

5.Activities and resources

5.1.General methodological presentation

5.2.Learning activities

5.3.Program

Lesson 1: Introduction to Instrumental Analysis

Lesson 2: Basic Concepts of Chromatography

Lesson 3: Gas Chromatography

Lesson 4: High Performance Liquid Chromatography

Lesson 5: Mass Spectrometry as detection technique in Chromatography. HPLC-MS and GC-MS

Lesson 6: Introduction to spectrometric techniques

Lesson 7: Introduction to Atomic Spectrometry.

Lesson 8: Atomic Absorption Spectrometry

Lesson 9: Atomic Emission Spectrometry: Flame, Arc and Spark, Plasma

Lesson 10: Inductively Coupled Plasma-Mass Spectrometry

Lesson 11: Molecular Absorption Spectrometry: UV-VIS and Infrared

Lesson 12: Molecular Luminiscence : Fluorescence and Chemiluminiscence

5.4.Planning and scheduling

5.5.Bibliography and recomended resources

BB	See information and resources incorporated in the ADD
BB	Skoog, Douglas A.. Principios de análisis instrumental / Douglas A. Skoog, F. James Holler, Stanley R. Crouch ; traductor, María Bruna Josefina Anzures ; revisión técnica Francisco Rojo Callejas, Juan Alejo Pérez Legorreta . - 6ª ed. México, D. F. : Cengage Learning, cop. 2008