朝陽科技大學 092學年度第2學期教學大綱
Experimental Instrumental Analysis 儀器分析實習

當期課號	1616	Course Number	1616
授課教師	陳文正	Instructor	CHEN,WEN JANQ
中文課名	儀器分析實習	Course Name	Experimental Instrumental Analysis
開課單位	應用化學系(四日)三A	Department	
修習別	選修	Required/Elective	Elective
學分數	2	Credits	2
課程目標	儀器分析實驗將能幫助學生了解儀器的原理，並訓練學生熟悉分析儀器的操作與維護。	Objectives	This course will assist students to understand the principles of instruments. In addition it will allow students to familiarize with the maintenance and operations of analytical instruments through class training.
教材	分組實際儀器操作	Teaching Materials	Hand-on instrumental operation
成績評量方式	平時成績（預報繳交，出席，實驗態度）：20% 實驗報告：80%	Grading	Pre-lab report, attendance, attitude: 20% Experimental report: 80%
教師網頁			
教學內容	本課程主要目的是訓練學生實際操作分析儀器，處理實驗數據及撰寫實驗報告的能力。課程內容以實際操作分析儀器爲主，包括酸鹼度計，電導度計，電化學分析儀，分光光度計，UV/Vis光譜儀，螢光光度計，紅外光譜儀，原子吸收光譜儀，旋光光度計，氣相層析儀，高效液相層析儀，毛細管電泳層析儀。	Syllabus	The objective of this course is to help students establish the ability of operating various analytical instruments, dealing with the experimental data and writing the experimental report. The contents include pH meter, conductivity meter, electrochemical analyzer, photometer, UV/Vis spectrometer, Luminospectrometer,IR spectrometer, AA spectrometer, Polarimeter, Gas chromatography, High performance liquid chromatography, capillary electrophoresis.

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