朝陽科技大學 099學年度第2學期教學大綱
Experimental Instrumental Analysis 儀器分析實習

當期課號	1647	Course Number	1647
授課教師	許世興	Instructor	SHEU,CE SHING
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)四A	Department	
修習別	選修	Required/Elective	Elective
學分數	1	Credits	1
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	老師自編	Teaching Materials	Self-edited text
成績評量方式	report 70% exam 30%	Grading	report 70% exam 30%
教師網頁	cssheu@mail.cyut.edu.tw		
教學內容	1.磷酸的中和滴定及其解離常數的測定 2.中和反應的電導滴定 3.以分光光度計測量鐵的含量 4.阿斯匹靈的紫外光譜 5.螢光光譜分析阿斯匹靈 6.紅外光譜分析 7.原子吸收光譜測鉛含量 8.旋光分析法-醣類的鑑定 9.GC-酒中醇類的分析 10.HPLC-飲料中咖啡因的測定 11.CE-分析尿液中的肌酸酐	Syllabus	1. Neutrolization titration of phosphoric ascid and the determination of dissociation constant 2. Neutralization reaction of conductive titration 3. Quantitative analysis of Iron by spectrophotometer 4. The ultraviolet spectroscopy of aspirin 5. Analysis of aspirin by Fluorescence spectroscopy 6. Analysis of Infrared spectroscopy 7. Quantitative analysis of lead by atomic absorption spectroscopy 8. Identification of sugars - analysis by optical rotation method 9. Analysis of alcohol in wine by GC 10. Quantitative analysis of Caffeine in soft drink by HPLC 11. Analysis of creatinine in urine by CE

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