朝陽科技大學 094學年度第1學期教學大綱
Applications of Instrumental Analysis 儀器分析應用

當期課號	7205	Course Number	7205
授課教師	張秩隆	Instructor	CHANG,CHIH LUNG
中文課名	儀器分析應用	Course Name	Applications of Instrumental Analysis
開課單位	環境工程與管理系碩士班二A	Department	
修習別	選修	Required/Elective	Elective
學分數	3	Credits	3
課程目標	在課程開始首先介紹傳統化學分析方法與儀器分析方法之差異意義；講解有關儀器分析方法之品保品管觀念。強調有關環境科學與環境工程領域方面應用之量測儀器，講解各量測儀器之基本原理，以及量測得數據之意義。	Objectives	At the beginning, the course introduces to students the significance of the difference between traditional and instrumental analysis. Then it introduces to the concept and importance of quality assurance and quality control in instrumental analysis. The course will emphasize the fundamental principles of the instrumental used in the measurements in environmental science and technology, and the significance of the obtained data.
教材	Skoog, D.A., F.J. Holler, and T.A. Nieman. 1998. Principles of Instrumental Analysis; updated selected materials regarding the applications of instrumental analysis.	Teaching Materials	
成績評量方式	期中與期末考試；指定儀器分析應用之學生口頭報告。	Grading	Mid-term and final examinations; students' presentations for the applications of selected instrumental analysis.
教師網頁			
教學內容	儀器分析與量測不確定度之品質保證與品質管制；與日常生活相關以及與奈米技術應用相關之儀器分析。	Syllabus	Quality assurance (QA) and quality control (QC) for instrumental analysis and measurement uncertainties; instrumental analysis related to the concern of life; instrumental analysis related to the applications to nano-meter technology.