

朝陽科技大學 093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	7760	Course Number	7760
授課教師	王敏昭	Instructor	WANG,MIN CHAO
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在職專班二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	當今最新版之儀器分析教科書，包括最近本系新購入有關環境監測之儀器剖析及實習操作/The most updated edition of textbook for instrumental analysis, including the explanation of newly purchased instruments of this Department and their operations.	Teaching Materials	
成績評量方式	期中考、期末考、平時考試、讀書報告(包括口頭報告)。	Grading	Mid-term and final examinations, regular examinations, and reading reports (including oral presentations).
教師網頁	-		
教學內容	量測電磁輻射與物質相互反應之光學光譜儀器、電化學量測儀器、層析分析技術儀器以及質譜儀器之介紹。	Syllabus	The introductions to the optical and spectral instruments for measuring the interactions of electromagnetic radiation and matter, instruments for measuring electrochemical reaction, instruments of chromatographic analysis, and instruments of mass spectrometry.

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