朝陽科技大學 097學年度第1學期教學大綱
Fundamental of Nanotechnology 奈米技術概論

當期課號	7691	Course Number	7691
授課教師	王敏昭	Instructor	WANG,MIN CHAO
中文課名	奈米技術概論	Course Name	Fundamental of Nanotechnology
開課單位	環境工程與管理系碩士在職專班一A	Department	
修習別	選修	Required/Elective	Elective
學分數	3	Credits	3
課程目標	此課程介紹奈米尺寸之基本概念，以及此等尺寸材料與傳統微米尺級材料在物理、化學特性方面之差異意義。介紹一般奈米材料之製備技術，以及量測及確認奈米尺寸材料所使用儀器原理。	Objectives	This course introduces to students the fundamental concept of nano-science and nano-technology. It emphasizes the significance of differences between micro-scale and nano-scale materials in physical and chemical characteristics. Then the course introduces to the preparation technique for nano-scale materials and the instrumental principles of the measurements and identifications of nano-scale materials.
教材	以最新研討會相關資料及/或期刊論文爲教材，並補充鑑定奈米尺寸材料之儀器分析及原理	Teaching Materials	Updated symposium reports and/or journals papers are to be used as teaching materials complemented with principles of instrumental analysis for the identification of nano-size materials.
成績評量方式	期中考試、期末考試、平時考試及讀書報告(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	解釋奈米科技領域之意義與應用性，包括初步奈米尺寸顆粒及材料之製備，及其進一步之確認技術與應用之儀器。	Syllabus	Explain the significance and application of nanotechnology, including the preparations of nano-size particles and materials and thier subsequent identification technique and the used instruments.