

朝陽科技大學 098學年度第1學期教學大綱  
Fundamental of Nanotechnology 奈米技術概論

|        |   |                    |  |
|--------|---|--------------------|--|
| 當期課號   | 7699  | Course Number      | 7699   |
| 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/或期刊論文為教材，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 their subsequent identification technique and the used instruments.  |

尊重智慧財產權，請勿非法影印。