# 朝陽科技大學 096學年度第1學期教學大綱
# Advanced Environmental Engineering and Management 環境工程與管理特論

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| 當期課號 | 7724 | Course Number | 7724 |
| 授課教師 | 莊順興 | Instructor | CHUANG,SHUN HSING |
| 中文課名 | 環境工程與管理特論 | Course Name | Advanced Environmental Engineering and Management |
| 開課單位 | 環境工程與管理系碩士在職專班一A | Department | |
| 修習別 | 必修 | Required/Elective | Required |
| 學分數 | 3 | Credits | 3 |
| 課程目標 | 本課程將著重本土化之環境問題之探討，尤其是私人企業對即將面臨的各項環保議題，可能帶來的經營上的挑戰。同時亦使學生瞭解我們週遭的環境正面臨逐步的被腐蝕，我們該以何種態度來正視這些問題，並運用適當的方式來管理之。授課內容以經濟、技術、及管理等層面爲主軸，以系統化的思考模式，培養學生解決環境問題的技巧與方法。 | Objectives | The course concentrates on the discussion of the localized environmental issues, especially for the local industry. The emerging global issues related to environmental sciences have influenced on the business. Taiwanese enterprises cannot get rid of these challenges if they want to win in the global market. On the other hand, industry worsens our environment during their production of goods. How do we recognize these issues and solve the problems? This class will introduce the techniques of environmental engineering, as well as the economic and environmental evaluations to the specified issues. |
| 教材 | 1.Environmental Engineering Science, W. W Nazaroff and L. Alvarez-Cohen, John Wiley & Son Inc., 2001<br>2.Master, G.M., Introduction to Environmental Engineering and Science, PRENTICE HALL, 1998. | Teaching Materials | |
| 成績評量方式 | 1.期中考：30%，2.期末考：30%，3.報告：20%，4.上課：20% | Grading | 1.Mid exam 30%, 2.Final exam 30%, 3.Term paper 20%, 4. Participation 20% |
| 教師網頁 | | | |
| 教學內容 | 本課程將著重環境問題之探討，環境工程課程內容包括污染物性質、質量平衡、反應動力、污染物傳輸與分配及反應槽分析，環境管理課程包括環境資源管理、環境風險分析及環境管理系統等，培養學生分析與解決環境問題能力。 | Syllabus | This course is a systematic introduction to environmental engineering and management. The contents of the part of environmental engineering include properties of pollutants, mass balance, kinetics, transportation, partitioning and reactor models. The environmental management part includes environmental resource management, risk analysis, environmental impact and environmental management system. The objective of this course is to help students to establish the ability of analyzing and solving environmental problem. |

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