

朝陽科技大學 092學年度第1學期教學大綱  
Pollution Control Engineering and Practice 污染防制工程實務

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| 當期課號   | 7740   | Course Number      | 7740  |
| 授課教師   | 曾治乾  | Instructor         | TSENG,CHIE CHIEN  |
| 中文課名   | 污染防制工程實務   | Course Name        | Pollution Control Engineering and Practice  |
| 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   | 針對理論與實例，講授土壤、水、空氣及廢棄物污染等污染來源，相關防治法規，污染監測與安全評估技術，污染防治技術，使學者習得環境污染監測、評估與防治工程之知識。   | Objectives         | The object of this course is to provide the practicable technologies of environmental pollution prevention and remediation.<br>Topics including: The laws and regulations of environmental pollution prevention and remediation, pollution sources, environmental monitoring and risk assessment, technologies of prevention and remediation.                   |
| 教材     | 投影片口投講授,小組討論,廢水處理廠現場參觀,專題討論,期末報告.  | Teaching Materials | 1. Oral presentation with visual aids<br>2. Group discussion<br>3. Specific topic presentation<br>4. Site visiting<br>5. Final report   |
| 成績評量方式 | 平時成績: 作業, 出席率, 課堂討論, 30%<br>期中考試: 30%<br>期末考試或期末報告: 40%  | Grading            | Regular class: 30%, attendance, class discussion, homework<br>Midterm examination: 30%<br>Final examination or final report: 40%  |
| 教師網頁   | -  |                    |   |
| 教學內容   | 1. 廢水處理流程介紹<br>2. 廢水生物處理原理與活性污泥反應動力學模式<br>3. 厭氧程序,好氧程序, 生物膜處理程序, 薄膜生物反應器之設計原理及實際應用.<br>4. 高級處理程序之原理與應用<br>5. 現行廢水回收再利用技術 | Syllabus           | 1.Introduction to wastewater treatment processes<br>2. Principle of biological wastewater treatment and activated sludge model<br>3. Funtional design unit conversion of anaerobic treatment process, aerobic treatment process, boifilm process, and membrane bioreactor process.<br>4. Advance wastewater treatment process<br>5. Wastewater reuse technology |

尊重智慧財產權，請勿非法影印。