朝陽科技大學 097學年度第2學期教學大綱
Advance Solid Waste Treatment 固體廢棄物處理特論

當期課號	7196	Course Number	7196
授課教師	劉敏信	Instructor	LIU,MIN HSIN
中文課名	固體廢棄物處理特論	Course Name	Advance Solid Waste Treatment
開課單位	環境工程與管理系碩士班一A	Department	
修習別	選修	Required/Elective	Elective
學分數	3	Credits	3
課程目標	透過本課程，讓學生瞭解固體廢棄物之定義，廢棄物清理法、資源回收再利用法之探討，固體廢棄物來源、型式、組成及性質，收集及清運，廢棄物分類、前處理（資源回收及再利用與減廢技術）、貯存及處理，焚化處理技術，掩埋處置技術，固化處理技術，生化處理技術，有害廢棄物清理與管理，危害性廢棄物外洩控制技術，污染場址潛勢及風險評估方法，場址污染整治技術。	Objectives	The objective of this course is to provide students to understand the solid waste treatment technology. The subjects of the course will include: the definition of solid waste, waste treatment and disposal regulation, waste source and property, collection and transportation, pretreatment (resource recovery), storage and treatment, incineration, landfill, solidification, biotreatment, hazardous waste management, hazardous material spill control technology.
教材	參考書籍：1. Georage Tchobanoglous, Hilary Theisen and Samuel A. Vigil. "Integrated Solid Waste Management: Engineering Principles and Management Issues." The McGraw-Hill Companies, Inc. 1993. 2. P. Aarne Vesilind, et al., “Solid Waste Engineering”, Brooks/Cole, 2002. 3. 謝錦松及黃正義，「固體廢棄物處理」，修訂五版，高立圖書公司，90年。 4. 章裕民，「焚化處理技術」，文京圖書公司，修訂一版，89年。	Teaching Materials	1. Georage Tchobanoglous, Hilary Theisen and Samuel A. Vigil. "Integrated Solid Waste Management: Engineering Principles and Management Issues." The McGraw-Hill Companies, Inc. 1993. 2. P. Aarne Vesilind, et al., “Solid Waste Engineering”, Brooks/Cole, 2002.
成績評量方式	技術案例研究簡報30%，期中考35%，期末考35%。	Grading	Literature review and report presentation 30%, mid-term examination 35%, final examination 35%.
教師網頁			
教學內容	固體廢棄物之定義與清理法規，固體廢棄物來源、型式、組成及性質，收集及清運，廢棄物分類、前處理（資源回收與減廢技術）、貯存及處理，焚化處理技術，掩埋處置技術，固化處理技術，生化處理技術，有害廢棄物清理，危害物質（廢棄物）外洩控制技術，污染場址潛勢及風險評估方法，場址污染整治技術（物理化學方法），場址污染整治技術（生物方法）。	Syllabus	The subjects of the course will include: the definition of solid waste, waste treatment and disposal regulation, waste source and property, collection and transportation, pretreatment (resource recovery), storage and treatment, incineration, landfill, solidification, biotreatment, hazardous waste management, hazardous material spill control technology, contaminated site risk assessment, contaminated site remediation technology.

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