

朝陽科技大學 092學年度第2學期教學大綱
Environmental Mathematical Models 環境數學模式

當期課號	7238	Course Number	7238
授課教師	陳鶴文	Instructor	CHEN,HO WEN
中文課名	環境數學模式	Course Name	Environmental Mathematical Models
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	<p>本課程檢視並試作模擬五個重要的環境問題。學生必須積極參與模擬，以達成"作中學"的效果。</p> <ol style="list-style-type: none"> 1. 經濟發展環境保護兼籌並顧。(Week 1~3) 2. 企業面對的環境管理問題。(Week 4~5) 3. 環境管理工具的發展。(Week 6~8) 4. 資訊的不對稱問題。(Week 9~11) 5. Physical modelling。(Week 12~14) <p>此外，使用數量方法作環境資料分析。(Week 15~17)</p>	Objectives	<p>The course is to explore and model 5 "good" problems in environment and economics. It is expected that students are required to take part in modelling. It is a course for students to learn by doing. These five problems are:</p> <ol style="list-style-type: none"> 1. Balancing the economics development with environmental protection. (week 1~3) 2. Environmental management problems facing business enterprises. (week 4~5) 3. Deriving pollution control strategies. (week 6~8) 4. Information problems in pollution control. (week 9~11) 5. Physical modelling. (week 12~14) <p>Environmental data analysis will be an added topic for the course. (week 15~17)</p>
教材		Teaching Materials	
成績評量方式	<p>期中考試40%</p> <p>報告40%</p> <p>發問20%</p>	Grading	
教師網頁	http://ensys.ev.cyut.edu.tw/hwchen		
教學內容	<ol style="list-style-type: none"> 1. 環境數學模擬原理 2. 模式不確定分析原理 3. 模式綜合應用 	Syllabus	<ol style="list-style-type: none"> 1. Introduction to the theories of mathematical models 2. Uncertainties analysis for models 3. Integrated application of models

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