朝陽科技大學 099學年度第2學期教學大綱
Operations Research (1) 作業研究(一)

當期課號	1557	Course Number	1557
授課教師	廖經芳	Instructor	LIAW,CHING FANG
中文課名	作業研究(一)	Course Name	Operations Research (1)
開課單位	工業工程與管理系(四日)二A	Department	
修習別	必修	Required/Elective	Required
學分數	3	Credits	3
課程目標	讓學生學習管理科學領域中常見的確定性計量分析方法，進而培養分析及解決複雜問題之能力。	Objectives	Through learning different operation research issues, the students are trained to understand the deterministic approach in operations research and to develop techniques for solving and analyzing relevant problems with mathematical models.
教材	1.作業研究(二版)：廖慶榮著，華泰書局，2009年6月。。(主要教材) 2.作業研究(八版)：潘昭賢、葉瑞徽譯,滄海書局,2006年。(參考教材)	Teaching Materials	1. Operations Research (2nd Ed.), C.J. Liao, Hwa Tai Publishing, 2009.06.
成績評量方式	1. 小考 40% 2. 期中考 25% 3. 期末考 25% 4. 作業及出席 10%	Grading	1. Quiz 40% 2. Midterm 25% 3. Final 25% 4. Homework and Attendance 10%
教師網頁			
教學內容	本課程旨在探討作業研究領域中各種確定性模式之求解方法，培養學生具備數量性的決策分析技巧。內容包括線性規劃、對偶理論、敏感度分析、運輸與指派問題、網路模式、專案管理及目標規劃。	Syllabus	This course intends to provide the needed background to employ mathematical programming as a decision-making tool. It focuses on the solution techniques for various deterministic mathematical models. The topics to be covered include linear programming, duality theory, sensitivity analysis, transportation and assignment problems, network models, project management and goal programming.

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