朝陽科技大學 095學年度第1學期教學大綱
Operations Research 作業研究

當期課號	2237	Course Number	2237
授課教師	陳宏益	Instructor	CHEN,HUNG YI
中文課名	作業研究	Course Name	Operations Research
開課單位	資訊管理系(二日)四A	Department	
修習別	選修	Required/Elective	Elective
學分數	3	Credits	3
課程目標	作業研究是在探討如何利用有限的資源(人力、物力、財力), 使其發揮其最高效能, 或是如何以最經濟的成本, 有效達成預期之目標。 且由於目前電腦提供大量計算的便利, 使得作業研究不論在理論或是應用上均益驅普及。課程包含有介紹作業研究的定義、應用範圍、線性規劃、運輸問題	Objectives	This course is about the use of quantitative models to aid in managerial decision making. An emphasis is placed on understanding the management science models and utilizing the results of these models in a way that is meaningful to a decision maker.
教材	上課教材: 講義 參考書: Hillier and Lieberman原著, 潘昭賢, 葉瑞徽譯, 作業研究(上)(下), 滄海書局, 2002 廖慶榮著, 作業研究, 華泰文化, 2004	Teaching Materials	Textbook: Lecture notes Reference books: Hiller, F.S. and Liberman, G.J., Introduction to Operation Research, McGraw-Hill.
成績評量方式	Participating 5% Quiz 25 % Mid-term Exam. 30% Final exam. 40%	Grading	Participating 5% Quiz 25 % Mid-term Exam. 30% Final exam. 40%
教師網頁			
教學內容	作業研究是在探討如何利用有限的資源(人力、物力、財力), 使其發揮其最高效能, 或是如何以最經濟的成本, 有效達成預期之目標。 且由於目前電腦提供大量計算的便利, 使得作業研究不論在理論或是應用上均益驅普及。課程包含有介紹作業研究的定義、應用範圍、線性規劃、運輸問題、指派問題、決策分析等。	Syllabus	This course is about the use of quantitative models to aid in managerial decision making. An emphasis is placed on understanding the management science models and utilizing the results of these models in a way that is meaningful to a decision maker. Topics: Formulation to Linear programming problem; Simplex algorithm to solve linear programming problem; The theory of the simplex algorithm; Special types of LP problems; Integer programming; Dynamic programming; Morkov Chain;

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