朝陽科技大學 094學年度第1學期教學大綱
Operations Research(2) 作業研究(二)

當期課號	1575	Course Number	1575
授課教師	邱元錫	Instructor	CHIU,YUAN SHYI
中文課名	作業研究(二)	Course Name	Operations Research(2)
開課單位	工業工程與管理系(四日)三A	Department	
修習別	選修	Required/Elective	Elective
學分數	3	Credits	3
課程目標	本課程主旨在教授學生以數量方法解決工程與管理領域內常見的各種機率決策問題，即透過問題之界定，分析模式之建立及求解方法之介紹，培養學生分析及解決複雜問題之能力。爲達學習成效，教授將偏理論基礎並適度配合實例及專案研討。	Objectives	This course introduces stochastic process and its applications to the fields of Management Practices. We start the course with review of Linear Algebra, review of Probability, Linear Programming, and Transportation Model Analysis. Topics include Stochastic process, Markov Chain and its applications, Probabilistic Inventory Models, Queuing Theory and its applications.
教材	Introduction to Operations Research, 7th Ed., (滄海04-2451-8787)F. S. Hillier and G.J. Lieberman, McGraw-Hill, 2001 ; Operations Research – An Introduction, H. A. Taha, 6th Ed, 1997.	Teaching Materials	
成績評量方式	25% 平常 [Attendance 15% and Homework 10%] 75% Exam #1 (25%); Exam #2 (25%); Exam #3 (25%)	Grading	25% Attendance 15% and Homework 10%] 75% Exam #1 (25%); Exam #2 (25%); Exam #3 (25%)
教師網頁			
教學內容	本課程主旨在教授學生以數量方法解決工程與管理領域內常見的各種機率決策問題，即透過問題之界定，分析模式之建立及求解方法之介紹，培養學生分析及解決複雜問題之能力。內容包括: 隨機過程、馬可夫鏈理論與應用、決策分析、等候理論與應用、運輸問題、及機率性存貨理論等。	Syllabus	This course introduces stochastic process and its applications to the fields of Management Practices. We start the course with review of Linear Algebra, review of Probability, Linear Programming, and Transportation Model Analysis. Topics include Stochastic process, Markov Chain and its applications, Probabilistic Inventory Models, Queuing Theory and its applications.

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