朝陽科技大學 097學年度第1學期教學大綱
Construction Operation Research 營建作業研究

當期課號	7127	**Course Number**	7127
授課教師	鄭道明	**Instructor**	CHENG,TAO MING
中文課名	營建作業研究	**Course Name**	Construction Operation Research
開課單位	營建工程系碩士班一A	**Department**	
修習別	選修	**Required/Elective**	Elective
學分數	3	**Credits**	3
課程目標	本課程根據營建業之特性，介紹在其他產業已經廣泛應用之作業研究理論於營建管理之應用，以使管理效率最佳化，本課程將篩選適用之作業研究理論，其中包括：線性規劃；非線性規劃；賽局理論；動態規劃；馬可夫決策；等候理論；模擬法等	**Objectives**	OR applications have been successfully implemented in many areas. Based on the characteristics of construction, the objectives of the course is to explore the potential applications of OR theories in construction through the introduction of OR theories, which cover game theory, inventory theory, dynamic programming, simulation, queuing theory, Marcov chains, linear programming and non-linear programming.
教材	Winston, W. L. Operation research - applications and algorithms, Thomson Learning, Belmont, CA, 2004.	**Teaching Materials**	Winston, W. L. Operation research - applications and algorithms, Thomson Learning, Belmont, CA, 2004.
成績評量方式	考試50% 作業30% 報告20%	**Grading**	Quizzes 20 points MIdterm and Final Exam. 30 points HW Assignments 30 points Term Project 20 points
教師網頁	_		
教學內容	本課程根據營建業之特性，介紹在其他產業已經廣泛應用之作業研究理論於營建管理之應用，以使管理效率最佳化，本課程將篩選適用之作業研究理論，其中包括：線性規劃；非線性規劃；賽局理論；動態規劃；馬可夫決策；等候理論；模擬法等	**Syllabus**	The objectives of the course is to explore the potential applications of OR theories in construction through the introduction of OR theories, which cover game theory, inventory theory, dynamic programming, simulation, queuing theory, Marcov chains, linear programming and non-linear programming.