

朝陽科技大學 093學年度第2學期教學大綱
Decision Making and Risk Management 決策分析與風險管理

當期課號	7054	Course Number	7054
授課教師	蔡宗潔	Instructor	TSAI, TSUNG CHIEH
中文課名	決策分析與風險管理	Course Name	Decision Making and Risk Management
開課單位	營建工程系碩士班二A	Department	
修習別	選修	Required/Elective	Elective
學分數	3	Credits	3
課程目標	本課程目的在使學生瞭解決策分析的意義並應用決策分析技巧在不確定因素的環境下作適當的決策。教導學生如何利用多目標決策分析之理論作出最適當的決策，當現今與未來均是不確定。課程內容包括：現今電腦輔助決策系統之發展，多目標效用決策分析、AHP、及灰色理論之理論與應用	Objectives	The objective of this course is to study the meaning and application of analytic decision making techniques for technical decision making under uncertainty. Provides the student with background and practice in applying tools for multiple attribute decision making when present or future states of nature are uncertain. Includes exploration of current research in developing computer aids to decision making under risk, multi-attribute utility analysis, AHP, and gray theory from theoretical foundations through assessment procedures.
教材	教科書：Clemen, R. T. and Reilly, T. (2001). Making Hard Decisions, 2nd ed, Duxbury. ©參考書：(1)宋明哲 (2002), 「當代風險管理」, 五南圖書。(2)Ebeling, C. E. (1997). An Introduction to Reliability and Maintainability Engineering, McGraw-Hill. (3)Haimes, Y.Y. (1998) Risk Modeling, Assessment, and Management, John Wiley & Sons. (4)Williams, Smith & Young (2002). Risk Management and Insurance, 9th ed, McGraw-Hill.	Teaching Materials	
成績評量方式	考試40% 作業30% 報告30%	Grading	Quizzes and Exams 40% Homework 30% Term project 30%
教師網頁	-		
教學內容	本課程係以「風險管理」為架構，講授決策分析與其他風險管理方法之實際應用。	Syllabus	Based on the framework of "Risk Management," this course is aim to introduce how to apply decision analysis and risk management methods to real world.

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