



課 綱 Course Outline
企業管理學系博士班經營管理國際組

中文課程名稱 Course Name in Chinese	決策模式研究				
英文課程名稱 Course Name in English	Seminar in Decision Models				
科目代碼 Course Code	BM__D0060	班 別 Degree	博士班 Ph. D.		
修別 Type	必修 Required	學分數 Credit(s)	3.0	時 數 Hour(s)	3.0
先修課程 Prerequisite					
課程目標 Course Objectives					
This course is intended to provide the students with an in-depth knowledge of how to approach managerial decision-making with appropriate conceptual modeling and essential analytical views to provide insight which leads to implementable policies or solutions. Necessary quantitative skills and modern computational tools are studied to strengthen the students’ ability in dealing with large scale, subjective or uncertainty issues. Course content will include fundamental subjects in Management Science, in-depth readings of relevant research papers, implementation case studies, and individual projects					
系教育目標 Dept.’s Education Objectives					
1	培養具國際觀之經營管理人才 To develop managerial talent with a global perspective.				
2	培養具知識整合能力之經營管理人才 To develop managerial talent with knowledge integration abilities.				
3	培養具先機掌握能力之經營管理人才 To develop managerial talent with initiative-seizing abilities.				
4	培養具人文素養之經營管理人才 To develop managerial talent with humanism quality.				
系專業能力 Basic Learning Outcomes				課程目標與系專業能力相關性 Correlation between Course Objectives and Dept.’s Education Objectives	
A	具備企業管理相關理論與應用的知識 Having knowledge of modern management theories and practices			●	

B	具備邏輯推演、獨立思考與問題解決的能力 Having capability of logical reasoning, independent thinking, and problem solving	●
C	具備學研產官重要議題與趨勢掌握的國際觀 Having global perspective on key issues in academia, research, industry, and government	○
D	具備專業與產業的倫理洞察力與堅持 Having insights and persistence of professional and industry ethics	

圖示說明Illustration：● 高度相關 Highly correlated ○ 中度相關 Moderately correlated

課程大綱 Course Outline

1. Managerial Decisions and Models
 - a. Decision problem levels and models
 - b. Decision-making process
 - c. Criteria for selecting decision models
 - d. Applications of decision models in different areas
2. Fundamental Tools for Decision Making Models
 - a. Exploratory types - Forecasting, Statistical Data Analysis, etc.
 - b. Alternative types - Decision Analysis, AHP, etc.
 - c. Planning/Programming types - Linear, Integer, Large-Scale, Non-linear Programming, Network, Project Management, etc.
 - d. Descriptive types - Inventory, Waiting Lines
 - e. Evaluative types - Simulation, DEA, etc.
3. Analysis of significant case studies for decision at different levels and utilizing various analytical tools, for
 - a. manufacturing, distributing industries
 - b. service organizations
 - c. not-for-profit institutions
4. Selected research topics from above areas
5. Project guidance & work

資源需求評估（師資專長之聘任、儀器設備的配合．．．等）
Resources Required (e.g. qualifications and expertise, instrument and equipment, etc.)

1. Faculty with Management Science training and experience in managerial applications.
2. Audio & visual equipment, Management Science software (industry versions), decision support system design tools and a high-end PC.

課程要求和教學方式之建議 Course Requirements and Suggested Teaching Methods

Class will be conducted as a seminar. Discussion of above subjects and presentation of selected research papers will account for 60% of the course grade. Individual student case project will account for 40% of the course grade

其他 Miscellaneous