

南台科技大學 102 學年度第 2 學期課程資訊

課程名稱	高等數量方法
課程編碼	1GM00F01
系所代碼	19
開課班級	博研經管一甲
開課教師	黃仲正 張嘉華
學分	3.0
時數	3
上課節次地點	二 6 7 8 教室 E0610
必選修	必修
課程概述	This course will introduce interesting and useful advanced management science techniques and methodologies those can be applied to managerial decision making. Mathematical models and optimization methods such as Linear/Integer Programming are developed and extended to cover variations in the management context to logistics, networks, financial, forecasting, inventory, and strategic planning. Other topics may include decision analysis, stochastic modelling and game theory. But the emphasis of the course will be placed on the conceptual understanding and application of the tools rather than the mathematics or the mechanics behind the tools.
課程目標	
課程大綱	<ol style="list-style-type: none"> 1. 數學規劃； 2. 網路模式； 3. 非線性規劃； 4. 決策分析； 5. 隨機模式； 6. 模擬； 7. 預測； 8. 存貨； 9. 專案管理。
英文大綱	<ol style="list-style-type: none"> 1. Linear/Integer Programming; 2. Network 3. Nonlinear Programming; 4. Decision Analysis; 5. Stochastic Models ; 6. Simulation 7. Forecasting; 8. Inventory 9. Project Management

教學方式	
評量方法	
指定用書	Introduction to Management Science: A Modeling and Case Studies Approach With Spreadsheets
參考書籍	<p>1. Taylor, Bernard W., Introduction to Management Science, 11 edition, Prentice Hall, 2012.</p> <p>2. Anderson, David R., et el, An Introduction to Management Science: Quantitative Approaches to Decision Making, 13 edition, Cengage Learning, 2011.</p> <p>3. Wolsey, Laurence A. and George L. Nemhauser, Integer and Combinatorial Optimization, 1st edition, Wiley-Interscience, 1999.</p>
先修科目	<p>1. Linear Algebra;</p> <p>2. Management Science;</p>
教學資源	
注意事項	<p>1. Students are expected to attend all scheduled classes and are highly encouraged to participate during class discussions.</p> <p>2. Late or missed assignments will Not be accepted.</p>
全程外語授課	1
授課語言 1	英語
授課語言 2	
輔導考照 1	
輔導考照 2	