



課 綱 Course Outline

運籌管理研究所碩士班國際組

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| 中文課程名稱 Course Name in Chinese | 決策模式與方法 | | | | |
| 英文課程名稱 Course Name in English | Decision Models and Methods | | | | |
| 科目代碼 Course Code | GSLMM0060 | 班 別 Degree | 碩士班 Master' s | | |
| 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 designed to prepare the MBA students for a professional career in business management. As a manager, a graduate may be involved with decision models in two ways: either as a decision maker or as a consumer. He/She may participate directly in a project that uses decision models. Or he/she may need to evaluate and implement decisions proposed by other people. This course intends to study successful implementation of contemporary, world-class cases to help the students gain a deeper understanding of management science applicability and sharpen their quantitative reasoning abilities to apply and evaluate decision models. | | | | | |
| 系教育目標 Dept.' s Education Objectives | | | | | |
| 1 | 培養具備供應鏈與運籌管理知識能力之專業人才。 To nurture professionals with knowledge and skills in supply chain and logistics management | | | | |
| 2 | 培養具備邏輯與批判思維之專業管理人才。 To nurture management professionals with logical and critical thinking | | | | |
| 3 | 培養具備國際溝通與簡報能力之專業人才。 To nurture bilingual professionals with communication and presentation skills | | | | |
| 4 | 培養具有國際視野與在地經驗之供應鏈與運籌管理專才。 To nurture professionals in supply chain and logistics management with global vision and local experience | | | | |
| 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 | 基礎供應鏈與運籌管理知識 Foundations on supply chain and logistics management | | | ○ | |

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| B | 供應鏈與運籌之系統管理知識 Knowledge on managing systems in supply chain and logistics | ○ |
| C | 供應鏈與運籌之分析工具知識 Knowledge on logical and analytical tools for supply chain and logistics | ● |
| D | 語文表達能力 Language and communication skills | |

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

課程大綱 Course Outline

1. Overview of MS Applications
2. Management Decision Process
3. Decision Analysis
4. Waiting Line Models
5. Simulation
6. Forecasting
7. Linear programming
8. Integer Programming Models
9. Transportation Models
10. Transshipment & Assignment Models

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. Teaching staff should have backgrounds in management sciences (theory and application) or related academic fields.
2. Use of EXCEL will be required for homework. Other MS software such as LINGO, Crystal Ball, Tree Plan may be used as needed.

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

This course will cover the contents of the textbook in class with a focus on selected chapters. Additional reading materials about concepts and applications of decision models will be also provided to facilitate student's learning.

其他 Miscellaneous