

課

綱 Course Outline

資訊管理學系一般組

Cou	て課程名稱 rse Name in nese	商業資料分析						
Cou	て課程名稱 rse Name in lish	Business Analytics						
	目代碼 rse Code	IM50240	班 別 Degree	碩士班 Master's				
修另 Typ		選修 Elective	學分數 Credit(s)	3.0	時 數 Hour(s)	3.0		
	§課程 requisite							
	課程目標 Course Objectives							
This course provides a broad understanding and knowledge of important business analytic topics and how they can be used to support decision making in all business areas such as management, education, and marketing. Emphasis will be placed on the technical procedures that are used to describe, predict, and prescribe data into information for decision making. Students will learn how data exploration results in a sequence of descriptive, predictive and prescriptive processes to result in unique and new information on which decisions can be made 系教育目標 Dept.'s Education Objectives								
1	培育具備資訊技術解決問題思維能力之高級人才 Cultivate senior personnel with the capability of information technology to solve problems with thinking skills							
2	以資訊技術為核心,培育具有高度專業能力之技術人才 Cultivate professional personnel with the capability of information technology							
3	以管理為對象,培育具有創新、研發、企劃整合能力之高級人才 Cultivate senior personnel with the capability of innovation, research and development and integrated planning							
4	提供數位內容、電子商務與知識管理所需之人才 Cultivate personnel with the capability of digital content, electronic commerce and knowledge management							
5	培育符合國家與區域發展所需之資訊管理人才 Cultivate information management personnel to meet the needs of national and regional development							

	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	 培育具備創造與思考能力、服務精神、團隊合作以及國際觀 Nurture ability regarding creativity and thinking, spirit of Service, teamwork and international view 					
В	培養具備資訊專業知識與技能 Nurture professional ability and skill regarding information					
C	培養具備資訊科技與管理領域之知識整合應用能力 Nurture integrated ability regarding information technology and ● management					
D	培養具備解決問題之資訊剖析、組織、整合、應用以及表達的能力 Nurture ability of information analysis, organization, integration, application, and expression regarding problem solving	•				
E	培養具備獨立研究、領導智能與資訊創新的能力 Nurture ability regarding independent research, leadership and information innovation	0				
圖元	⊾ 示說明Illustration :● 高度相關 Highly correlated ○中度相關 Moder	ately correlated				
	課程大綱					
	Course Outline					
 Chapter 1 Introduction to Business Analytics Chapter 2 Data Management and Wrangling Chapter 3 Data Visualization and Summary Measures Chapter 4 Probability and Probability Distribution& Review for Test I Test I 						
6. C	hapter 5 Statistical Inference					
7. Chapter 6 Regression Analysis						
8. Chapter 7 Advanced Regression Analysis & Review for Test II 9. Midterm Exam (Test II)						
10. Chapter 8 Introduction to Data Mining						
11. Chapter 9 Supervised Data Mining: K-Nearest Neighbors and Naive Bayes						
	12. Chapter 10 Supervised Data Mining: Decision Tree 13. Chapter 10 Supervised Data Mining: Decision Tree & Review for Test III					
	Test III					
15. Chapter 11 Unsupervised Data Mining						
	Chapter 12 Forecasting with Time Series Data Chapter 12 Forecasting with Time Series Data & Poulow for Test IV					
17.Chapter 12 Forecasting with Time Series Data & Review for Test IV 18.Final Exam (Test IV)						
	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.)					
Com	puter Labs and Statistical Software					
	課程要求和教學方式之建議 Course Requirements and Suggested Teaching Methods					
Lectures, Labs, and Project						
Tit	Title: Business Analytics					

Authors: Sanjiv Jaggia and Alison Kelly and Kevin Lertwachara and Leida Chen Edition: 1st Publisher: McGraw Hill Education ISBN: 9781260785005
其他 Miscellaneous