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## ②國玄東華大學

## 課 網 Course Outline

## 管理學院管理科學與財金國際學士學位學程學士班

中文課程名稱 Course Name in Chinese	商業資料分析				
英文課程名稱 Course Name in English	Business Analytics				
科目代碼 Course Code	MSF_10490	班 別 Degree	В	學士班 Bachelor's	
修別 Type	學程 Program	學分數 Credit(s)	3.0	時 數 Hour(s)	3.0
先修課程 Prerequisite					
		課程目標 se Objectives			
analytic topics ar areas such as mana technical procedur information for de sequence of descri	les a broad understanding how they can be used agement, education, and res that are used to descriptive, predictive and particle which decisions can be	to support of marketing. It is scribe, predictions will learn prescriptive a made.	decision making Emphasis will lict, and presc how data explo	g in all bus be placed on ribe data in oration resu	iness the to lts in a
	•	、教育目標 ucation Objec	etives		
	量分析能力之管理人才。 nagement professionals	with outstan	ding ability i	n quantitati	ive
	融專業知識之人才。 ofessionals with financ	e-specific k	nowledge.		
	野與外語溝通能力之人才 ofessionals with a glob		d the ability	in foreign-l	language
4 Cultivating ma	析與問題解決之技能的管理 nagement professionals roblem solving.	•	ge and skills	in decision	
	系專業能力 Basic Learning Out	comes		力相關性 Correlati between ( Objective	Course es and Education
A 能以數量方法分	析與解決問題。				$\bigcap$

Using quantitative methods to analyze and solve problems.

В	具備財務金融領域之分析能力。	
	Equipped with the ability to analyze finance.	
	能善用資訊科技進行資料分析、統整與呈現。	
C	Using information technology to analyze, integrate, and present	
	data.	
	具備國際視野與專業外語能力。	
D	Equipped with a global vision and specialized foreign language	
	proficiency.	
	具備掌握財經時事議題及研判財經趨勢之能力。	
E	Equipped with the ability to master topics of finance and	
E	economy, and other current news, and to diagnose financial and	
	economic tendencies.	
	具備一般管理的基礎知識。	
F	Equipped with basic knowledge of management in general.	
圖:	「說明Illustration :● 高度相關 Highly correlated ○中度相關 Moder	ately correlated
四/	<del></del>	atery correlated
	課程大綱 Course Outline	
1		
$\begin{vmatrix} 1 \\ 2 \end{vmatrix}$	Chapter 1 Introduction to Business Analytics	
$\begin{vmatrix} 2 \\ 3 \end{vmatrix}$	Chapter 2 Data Management and Wrangling	
1.	Chapter 3 Data Visualization and Summary Measures	- a.↓ I
4	Chapter 4 Probability and Probability Distribution& Review for Te	esti
5	Test I	
$\begin{vmatrix} 6 \\ 7 \end{vmatrix}$	Chapter 5 Statistical Inference	
0	Chapter 6 Regression Analysis Chapter 7 Advanced Regression Analysis & Paview for Test II	
8  9	Chapter 7 Advanced Regression Analysis & Review for Test II	
	期中考試週Midterm Exam (Test II) Chapter 8 Introduction to Data Mining	
$\begin{vmatrix} 10 \\ 11 \end{vmatrix}$	Chapter 8 Introduction to bata Mining Chapter 9 Supervised Data Mining: K-Nearest Neighbors and Naive B	Romon
12	Chapter 10 Supervised Data Mining: Releasest Neighbors and Naive B	bayes
13	Chapter 10 Supervised Data Mining: Decision Tree & Review for Tes	+
14	Test III	l 111
15	Chapter 11 Unsupervised Data Mining	
16	Chapter 12 Forecasting with Time Series Data	
17	Chapter 12 Forecasting with Time Series Data & Review for Test IV	
18	期末考試週Final Exam (Test IV)	
10		
	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 ex	quinment etc )
Com		quipment, etc.
COII	puter Labs and Statistical Software.	
	課程要求和教學方式之建議 Course Requirements and Suggested Teaching Methods	
Con	rse Requirements and Suggested Teaching Methods	
	noo Requirements and suggested reacting methods	
Lec	tures, Labs, and Project	
Ti+	le: Business Analytics	
	hors: Sanjiv Jaggia and Alison Kelly and Kevin Lertwachara and Lei	da Chen
	tion: 1st	da Olioli
	lisher: McGraw Hill Education	
	N: 9781260785005	
	其他	
	Miscellaneous	
	mroce rancous	