Please consult Intellectual Property Rights before making a photocopy. Please use the textbook of copyrighted edition.

## ②国玄東華大學

## 課 綱 Course Outline

## 管理學院管理科學與財金國際學士學位學程學士班

		6年1九6年11千六	7. 四八十二	- 7 M-7 M-7 M-7	) <del>_</del>		
Cou	文課程名稱 rse Name in nese	統計學(一)					
英文課程名稱 Course Name in English		Statistics(I)					
1	目代碼 rse Code	MSF_10090	班 別 Degree		學士班 Bachelor's		
修 Typ		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 Course Objectives							
Principles and applications of statistical methods, including central tendency, descriptive analysis of quantitative data, probability, inferential statistics involving one or more populations, and multiple linear regressions. Applications include economics, planning, market research, production/operations, and decision theory.							
系教育目標 Dept.'s Education Objectives							
1	培育具備良好數量分析能力之管理人才。						
2	培育具備財務金融專業知識之人才。 Cultivating professionals with finance-specific knowledge.						
3	培育具備國際視野與外語溝通能力之人才。 Cultivating professionals with a global vision and the ability in foreign-language communication.						
4	培育具備決策分析與問題解決之技能的管理人才。 4 Cultivating management professionals with knowledge and skills in decision analysis and problem solving.						
		系專業能力 Basic Learning Out	comes		力相關性 Correlat between ( Objective	Course es and Education	
A	能以數量方法分析 Using quantitati	·與解決問題。 ve methods to analyze	and solve p	roblems.		•	

В	具備財務金融領域之分析能力。 Equipped with the ability to analyze finance.	0					
С	能善用資訊科技進行資料分析、統整與呈現。 Using information technology to analyze, integrate, and present data.						
D	具備國際視野與專業外語能力。 Equipped with a global vision and specialized foreign language proficiency.	•					
E	具備掌握財經時事議題及研判財經趨勢之能力。 Equipped with the ability to master topics of finance and economy, and other current news, and to diagnose financial and economic tendencies.						
F	具備一般管理的基礎知識。 Equipped with basic knowledge of management in general.	0					
圖示說明Illustration : ● 高度相關 Highly correlated ○中度相關 Moderately correlated							
	課程大綱						
1 I	Course Outline ntroduction to Course						
	hapter 1 What is Statistics						
	hapter 2 Frequency distribution and Graphs						
3 Chapter 2 Frequency distribution and Graphs							
	hapter 3 Numerical Measures						
	hapter 3 Numerical Measures						
C	hapter 4 Displaying and Exploring Data						
5 T	est I						
6 Chapter 5 A Survey of Probability Concepts							
7 Chapter 6 Discrete Probability Distributions							
	Chapter 6 Continuous Probability Distributions						
	8 Chapter 7 Standard Score Transformation						
	(Z score) and probability						
	9 Test II						
	10 Chapter 8 Sampling methods and the Central limit Theorem						
1	11 Chapter 10 Hypothesis Testing (Z test)						
	12 Chapter 10 Hypothesis Testing (t test) 13 Test III						
	14 Chapter 9 Estimate Confidence Interval						
1	15 Chapter 11 Two-Sample Tests of Hypothesis						
1	16 Chapter 12 One-way ANOVA						
17	Test IV						
18	18 Flexibility						
	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.)						
Classroom and its facilities							
課程要求和教學方式之建議							
Course Requirements and Suggested Teaching Methods							
Lecture							
其他							
	Miscellaneous						
	Statistical Techniques in Business & Economics, 18th ed. by Lind, Marchal & Wathen. McGraw-Hill Irwin (2021), ISBN10: 1260239470						