


國立東華大學
教學計劃表 Syllabus

課程名稱(中文) Course Name in Chinese		應用統計分析		學年/學期 Academic Year/Semester		113/1	
課程名稱(英文) Course Name in English		Applied Statistical Analysis					
科目代碼 Course Code		FIN_M0290	系級 Department & Year	碩士	開課單位 Course-Offering Department	財務金融學系	
修別 Type		選修 Elective	學分數/時間 Credit(s)/Hour(s)		3.0/3.0		
授課教師 Instructor		/池文海					
先修課程 Prerequisite							
課程描述 Course Description							
Enhance students' ability for the knowledge and understanding of statistical skill and application in the management domain.							
課程目標 Course Objectives							
This course aims to introduce statistical applications to students; therefore, students after taking this course are expected to be familiar with: 1.the choice of proper statistical methods; 2.the operations of statistical applications such as SPSS; 3.the complete procedures of analysis, and 4.the denotation of the results derived from applications.							
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	具備財務金融的分析能力Understanding the financial analysis.					●	
B	具備企業財務管理專業能力Capabilities for business financial management.					○	
C	具備英語閱讀溝通協調等能力English reading ability of communication and coordination.					○	
D	具備獨立研究之技能，以進行財金議題研究Independent research skills to research financial issues.					●	
E	具備個人投資理財能力Investment and financial management.						
F	具備電腦程式運算及設計能力Ability of computer programs, algorithms and application.					●	
圖示說明Illustration：● 高度相關 Highly correlated ○中度相關 Moderately correlated							
授課進度表 Teaching Schedule & Content							
週次Week		內容 Subject/Topics				備註Remarks	
1		Introduction					
2		Data and Statistics/Descriptive Statistics (Chapters 1 and 2)					
3		Descriptive Statistics: Numerical Measures (Chapter 3)					
4		Interval Estimation (Chapter 8)					

5	Hypothesis Testing (Chapter 9)	
6	Inferences about Means and Proportions with Two Populations (Chapter 10)	
7	Inferences about Population Variances (Chapter 11)	
8	Comparing Multiple Proportions, Test of Independence and Goodness of Fit (Chapter 12)	
9	期中考試週 Midterm Exam	
10	Experimental Design and Analysis of Variance (Chapter 13)	
11	Experimental Design and Analysis of Variance (Chapter 13)	
12	Simple Linear Regression (Chapter 14)	
13	Multiple Regression (Chapter 15)	
14	Regression Analysis: Model Building (Chapter 16)	
15	Mediation	
16	Moderation	
17	Moderation	
18	期末考試週 Final Exam	

教學策略 Teaching Strategies

- ☒ 課堂講授 Lecture
 ☐ 分組討論 Group Discussion
 ☐ 參觀實習 Field Trip
 ☒ 其他 Miscellaneous:

教學創新自評 Teaching Self-Evaluation

創新教學 (Innovative Teaching)

- ☒ 問題導向學習 (PBL)
 ☐ 團體合作學習 (TBL)
 ☒ 解決導向學習 (SBL)
 ☒ 翻轉教室 Flipped Classroom
 ☐ 磨課師 Moocs

社會責任 (Social Responsibility)

- ☒ 在地實踐 Community Practice
 ☐ 產學合作 Industry-Academia Cooperation

跨域合作 (Transdisciplinary Projects)

- ☐ 跨界教學 Transdisciplinary Teaching
 ☒ 跨院系教學 Inter-collegiate Teaching

- ☐ 業師合授 Courses Co-taught with Industry Practitioners

其它 other:

學期成績計算及多元評量方式 Grading & Assessments									
配分項目 Items	配分比例 Percentage	多元評量方式 Assessments							
		測驗 會考	實作 觀察	口頭 發表	專題 研究	創作 展演	卷宗 評量	證照 檢定	其他
平時成績 General Performance									
期中考成績 Midterm Exam									
期末考成績 Final Exam									
作業成績 Homework and/or Assignments	100%								
其他 Miscellaneous (_____)									
評量方式補充說明 Grading & Assessments Supplemental instructions									
教科書與參考書目 (書名、作者、書局、代理商、說明) Textbook & Other References (Title, Author, Publisher, Agents, Remarks, etc.)									
Camm, J. D., Cochran, J. J., Fry, M. J., Anderson, D. R., Sweeney, D. J. and Williams, T. A. (2024), Statistics for Business and Economics, 15th Ed., Metric Version, South-Western College Publishing, Cincinnati, Ohio. ISBN 986-0-35711448-3 Agent for Textbook: (04) 2708-8787									
課程教材網址(含線上教學資訊, 教師個人網址請列位於本校內之網址) Teaching Aids & Teacher's Website(Including online teaching information. Personal website can be listed here.)									
Design of Experiment (DOE) A https://www.youtube.com/watch?v=ie6zp2NkHdY https://www.youtube.com/watch?v=qNUWU3YhOFQ https://www.youtube.com/watch?v=yuH35ottILU https://www.youtube.com/watch?v=d3BgtJ7hNlc http://www.jeremydawson.co.uk/2-way_with_binary_moderator.xls									
其他補充說明 (Supplemental instructions)									