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## ②國玄東華大學

教學計劃表 Syllabus									
	名稱(中文) me in Chinese	應用統計分析 學年/學 Academic Year/				113/1			
	名稱(英文) me in English	Applied Statistical Analysis							
	目代碼 rse Code	IMM0060	系級開課單位IM_M0060Department碩士Course-Offering Department			資訊管理學系			
	修別 Type	選修 Elective	)/3.0						
	課教師 tructor	/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	Objecti	ves				
Establish students' abilities for the knowledge and understanding of statistics and the management domain.							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								
B 培養具 inform	-備資訊專業知識與 nation	技能Nurture profe	essional ability a	and skill	regarding				
C 培養具	備資訊科技與管理		用能力Nurture into	egrated a	bility regarding				
Information technology and management									
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									
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	週次Week 內容 Subject/Topics					備註Remarks			
1 Introduction									

Data and Statistics/Descriptive Statistics (Chapters 1 and 2)

Descriptive Statistics: Numerical Measures (Chapter 3)

Interval Estimation (Chapter 8)

Hypothesis Testing (Chapter 9)

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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 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	✓ 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							
社會責任(Social Responsibility)							
✓ 在地實踐Community Practice							
一 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	配分比例 Percentage	多元評量方式 Assessments							
Items		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., Cocharn, 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=qNUWU3Yh0FQ 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)