



## 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	IM_M0060	系級 Department & Year	碩士	開課單位 Course-Offering Department
資訊管理學系				
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				
Establish students' abilities for the knowledge and understanding of statistics and applications in the management domain.				
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			○
B	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	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:

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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 <a href="https://www.youtube.com/watch?v=ie6zp2NkHdY">https://www.youtube.com/watch?v=ie6zp2NkHdY</a> <a href="https://www.youtube.com/watch?v=qNUWU3YhOFQ">https://www.youtube.com/watch?v=qNUWU3YhOFQ</a> <a href="https://www.youtube.com/watch?v=yuH35ottILU">https://www.youtube.com/watch?v=yuH35ottILU</a> <a href="https://www.youtube.com/watch?v=d3BgtJ7hN1c">https://www.youtube.com/watch?v=d3BgtJ7hN1c</a> <a href="http://www.jeremydawson.co.uk/2-way_with_binary_moderator.xls">http://www.jeremydawson.co.uk/2-way_with_binary_moderator.xls</a>									
其他補充說明 (Supplemental instructions)									