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②图玄東華大學

教學計劃表 Syllabus

課程名稱(中文) Course Name in Chinese	統計分析導論			學年/學期 Academic Year/Se	103/1		
課程名稱(英文) Course Name in English	An introduction to statistical analysis						
科目代碼 Course Code	FIN_52630	系級 Department 碩士 & Year		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)		1.0/1.0			
授課教師 Instructor	/林金龍						
先修課程 Prerequisite							

課程描述 Course Description

This course aims at refreshing the students with the statistical methods frequently used in management science and developing the skills for quantitative analysis. Mastering one statistical software is another goal.

One can never really master statistics and econometrics without getting his/her hand dirty. Real data using some statistical package is considered as an essential part of this course. I shall give empirical data analysis during the lectures and assign computer-related home work. For this purpose, I shall teach and ask students to learn and use \textit{R}, a powerful statistical and yet free package. It can be downloaded from

http://www.r-project.org

課程目標 Course Objectives

協助研究所新生複習統計分析的基礎理論及熟悉統計軟體的使用,奠定學習統計分析及其他數量分析課程的基礎。 This course aims at refreshing the statistical methods frequently used in management science and developing the skills for quantitative analysis. Mastering one statistical software is another goal.

	条專業能力 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	•
В	具備企業財務管理專業能力	
С	具備英語閱讀溝通協調等能力	\circ
D	具備獨立研究之技能,以進行財金議題研究	•
E	具備個人投資理財能力	\circ
F	具備電腦程式運算及設計能力	•
国 テキ	铃明Illustration :▲ 享度相關 Highly correlated ○中度相關 Moderately of	rrolated

圖示說明Illustration ∶● 高度相關 Highly correlated ○甲度相關 Moderately correlated

		授課進	度表	Teachin	g Sched	lule & C	ontent				
週次Week	內容 Subject/Topics							1	備註Remarks		
1	Introduction to statistics, probability and R										
2	Discrete random variables and their probability distributions										
3	Continuous random variables and their probability distributions										
4	Multivariate probability distributions (I)										
5	Multivariate probability distributions (II)										
6	Functions of random variables (I)										
7	Functions of random variables (II)										
8	期中考試週 Midterm Exam										
9	Central limit theorem (I)										
10	Central limit theorem (II)										
11	Central limit theorem (III)										
12	Estimation (I)										
13	Estimation (II)										
14	Estimation (III)										
15	Hypothesis testing (I										
16	Hypothesis testing (II)										
17	Hypothesis testing (III)										
18	期末考試週 Final Exam										
		教	學策	略 Tea	aching	Strateg	ies				
✓ 課堂講授 Lecture 分組討論Group Discussion 參觀實習 Field Trip											
其他Miscellaneous:											
		學期成績計	算及多元	.評量方:	式 Gradi	ng & As	sessmen	ts			
	 2分項目	配分比例				多元評量	量方式 A	ssessme	nts		
	Items	Percentage	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(含 General Per (Attendance	rformance										
期中考成績	Midterm Exam	30%	~								
期末考成績 Final Exam		40%	✓								
作業成績 Homework and/or Assignments		30%		~							
其他 Misce	llaneous _)										

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.)

- 1. D. D. Wackerly, W. M. Medievally and R. S. Sclaffer (2002), Mathematical Statistics with Applications, 6th ed. Luxury.
- 2. John Vervain, (2002), simpler-Using R for Introductory Statistics, available at http://cran.r-project.org/doc/contrib/Verzani-SimpleR.pdf

課程教材網址(教師個人網址請列在本校內之網址)

Teaching Aids & Teacher's Website (Personal website can be listed here.)

faculty.ndhu.edu.tw/~jlin

其他補充說明(Supplemental instructions)