



教學計劃表 Syllabus

課程名稱(中文) Course Name in Chinese	財務經濟學(一)		學年/學期 Academic Year/Semester	110/1
課程名稱(英文) Course Name in English	Financial Economics (I)			
科目代碼 Course Code	EC_73300	系級 Department & Year	博士	開課單位 Course-offering Department
修別 Type	選修 Elective	學分數/時間 Credit(s)/Hour(s)	3.0/3.0	
授課教師 Instructor	/李同穌			
先修課程 Prerequisite				

課程描述 Course Description

This course intends to introduce the student to the applications in financial economics field, and analytical tools applicable to analyze securities, particularly using R.

課程目標 Course Objectives

Its purpose is to provide the foundations for study of modern financial economics. Concentration is on individuals' consumption and portfolio decisions under uncertainty and their implications for the valuation of securities.

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	數理分析能力：通曉經濟學的高階理論技巧，應用數學與賽局解決經濟議題的能力。 Mathematical analysis skills: Mastering in advanced application of mathematical theories and game theory in analyzing economic issues.	○
B	實證經濟分析能力：通曉經濟學的高階實證技巧，善用資訊科技進行資訊蒐集、資料統計與計量分析。 Empirical analysis skills: Mastering in advanced application of statistics and econometrics in data collection and examination	
C	微觀經濟之闡釋能力：通曉高階個體經濟學相關的理論與應用。 Microeconomic perspective: Thorough understanding of advanced microeconomic theories and relevant application	○
D	宏觀經濟之闡釋能力：通曉高階總體經濟學相關的理論與應用。 Macroeconomic perspective: Thorough understanding of advanced macroeconomic theories and relevant application	
E	樂活能力：具備適應現代社會的高階學養以及就業能力。 Employment opportunities: Capabilities of advanced working on important policy and decision challenges in business and government	●
F	溝通表達能力：思路清晰，有能力與人溝通並撰寫高階專業研究報告。 Communication skills: Having a clear mind and profound ability in presenting advanced professional academic research	

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: Analytical thinking and introduction to R	
2	Introduction to R	

3	Financial statistics	
4	Time series I	
5	Time series II	
6	Equity I	
7	Equity I I	
8	Fixed income	
9	Midterm project presentation	
10	Portfolio I	
11	Portfolio II	
12	Derivatives I	
13	Derivatives II	
14	Banking	
15	Risk management I	
16	Risk management II	
17	Dependence	
18	Project presentation	

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	10%		✓						
期中考成績 Midterm Exam	35%		✓		✓				
期末考成績 Final Exam	35%		✓		✓				
作業成績 Homework and/or Assignments	20%		✓						
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.)

No required textbook. Handouts will be used in the class.

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.)

Online class, if any:

google meet: <https://meet.google.com/nhf-bxrk-ekv>

其他補充說明 (Supplemental instructions)