國立東華大學

教學計劃表　Syllabus

課程名稱(中文) Course Name in Chinese	統計學(一)			學年/學期 Academic Year/Semester	113/1
課程名稱(英文) Course Name in English	Statistics(I)				
科目代碼 Course Code	FIN_B0010	系級 Department & Year	學二	開課單位 Course-Offering Department	財務金融學系
修別 Type	學程 Program	學分數/時間 Credit(s)/Hour(s)	3.0/3.0		
授課教師 Instructor	/黃瑞卿				
先修課程 Prerequisite					

課程描述　Course Description

1. What is Statistics?
2. Describing Data: Frequency Tables, Frequency Distributions, and Graphic Presentation
3. Describing Data: Numerical Measures
4. Describing Data: Displaying and Exploring Data
5. A Survey of Probability Concepts
6. Discrete Probability Distributions
7. Continuous Probability Distributions

課程目標　Course Objectives

Statistics is concerned with mathematical methods for collecting, summarizing, presenting, and analyzing data. This course introduces and explains the statistical methods and tools. Some mathematical techniques and empirical methods for the analysis and application of business data are concerned. Emphasis of this course is on the understanding and applications of data analysis, probability distributions, sampling theory, and estimation methods.

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	What is Statistics?	
2	Describing Data: Frequency Tables, Frequency Distributions, and Graphic Presentation	
3	Describing Data: Frequency Tables, Frequency Distributions, and Graphic Presentation	
4	First Examination Describing Data: Numerical Measures	
5	Describing Data: Numerical Measures	
6	Second Examination Describing Data: Displaying and Exploring Data	
7	Describing Data: Displaying and Exploring Data	
8	Third Examination A Survey of Probability Concepts	
9	A Survey of Probability Concepts	
10	A Survey of Probability Concepts	

11	Fourth Examination Discrete Probability Distributions	
12	Discrete Probability Distributions	
13	Discrete Probability Distributions	
14	Fifth Examination Continuous Probability Distributions	
15	Continuous Probability Distributions	
16	Continuous Probability Distributions	
17	Sixth Examination	
18	Alternative curriculum	

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: Question and Answer

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 Industy-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: Financial Risk Manager (FRM) test practice

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	80%	✓							
期中考成績 Midterm Exam	0%								
期末考成績 Final Exam	0%								
作業成績 Homework and/or Assignments									
其他 Miscellaneous (Classroom performance)	20%								

評量方式補充說明
Grading & Assessments Supplemental instructions

1. There are six tests in this course.
2. The cheater will get E rank in the transcript.

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. Lind,D.A., Marchal, W.G., and Wathen, S.A. Statistical Techniques in Business & Economics. (華泰代理).
2. Microsoft Office Excel
3. Teaching materials

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.)

https://elearn4.ndhu.edu.tw/moodle/ (東華e學苑NEW)
Online class link: https://meet.google.com/kau-sxeo-nkj

其他補充說明 (Supplemental instructions)
AACSB information: College Mission, Learning Goals, and Learning Objectives College Mission The College of Management (COM) emphasizes internationalization, education, and localization, which shapes its mission to cultivate outstanding management and academic talents who are aware of the impact of globalization and ethical issues and can integrate a diversity of knowledge and possess the analytical decision-making and execution abilities to build a brighter future. Students can achieve the five learning goals derived from the school mission, including LGI -integration of a diversity of business and management knowledge, LG2-analytical decision-making ability, LG3execution, LG4-global vision, and LG5-ethics. This course covers essential topics of statistical techniques and analytical skills in the business field to help undergraduate students achieve LG2, which is measured by the LO 2.1 and LO 2.2. Learning Goal (LG2): Analytical decision-making ability Learning Objectives (LOS): 2.1 Equipped with the ability of logical thinking; 2.2 Equipped with the ability of data analysis Measurement: To achieve the above goals, statistical concepts and methods will be introduced, and selected examples & analysis exercises are also chosen as supplementary materials to help students' learning process of applying statistical knowledge. Students need to absorb and answer questions in the class based on their understanding, as well as finish assignments/quizzes and pass examinations to fulfill the course requirements. The following rubrics will be used to evaluate the students by the tests and examinations for the intended learning objectives of AOL. LO 2.1 -Equipped with the ability of logical thinking Needs Improvement: Little evidence of cohesive thinking and ideas seem scrambled or disconnected Satisfactory: Ideas organized with some clarity for barely logical argument Exemplary: Ideas are well -organized to formulate a logical argument LO 2.2-Equipped with the ability of data analysis Needs Improvement: Most of statistical techniques and analytical skills are not complete and presented Satisfactory: Most of statistical techniques and analytical skills are well processed and presented Exemplary: Correctly perform statistical techniques and analytical skills