國立台灣科技大學 114學年 第2學期　課程大綱

Spring 2026 NTUST Course Outline

授課教師：項維欣

Instructor:Hsiang, Wei-Hsi

課程名稱：統計學(下)

Course Title：Statistics (II)

2026/11/3

課程代號： MB270B001 Course Code 學分數： 3 Credits	必選修：必修/全學年 Required/Electve:Required/Full Yr. 先修課程： Prerequisites
節次教室： Time/Location	W10(TR-512) W7(TR-512) W8(TR-512) W9(TR-512)
專業核心能力： Core Professional Competencies	
課程網址： Course Website	https://moodle2.ntust.edu.tw/
課程宗旨： Course Objectives	Cultivating Statistical Thinking: This course is designed to help students develop a statistical mindset, enabling them to understand and apply statistical methods to address real-world management issues. Students should learn how to extract information from data, analyze trends, make reasonable inferences, and support managerial decision-making. 2. Nurturing Decision-Making Abilities: The teaching objectives emphasize nurturing students' decision-making abilities. Through learning statistical methods, students can gain a better grasp of uncertainty and risk, allowing them to make wiser choices when confronted with complex management decisions. 3. Promoting Team Collaboration: In the process of learning statistics, students might engage in group projects or collaborative exercises, fostering teamwork and communication skills. These abilities are valuable in their future careers.
課程大綱： Outline of Lectures	The schedule will be flexibly adjusted based on the actual implementation and learning progress. 1 Introduction Chapter 8 Sampling, Sampling Methods, and the Central Limit Theorem 2 Chapter 9 Chapter 9 Estimation and Confidence Intervals 3 Chapter 10 One-Sample Test of Hypothesis 4 Chapter 11 Two-Sample Test of Hypothesis 5 Exam 1 Ch8~11 6 Chapter 12 Analysis of Variance 7 Review and Chapter 13 Correlation and Linear Regression 8 Mid-term buffer 9 Chapter 14 Multiple Regression Analysis 10 Chapter 15 Nonparametric Methods: Nominal Level Hypothesis Tests 11 Chapter 16 Nonparametric Methods: Nonparametric Methods: Analysis of Ordinal Data 12 Exam 2 Ch12~16 13 Individual Project 1 14 Individual Project 2 15 Individual Project Presentation 16 Final Buffer
授課方式： Method of Instruction	講授 Lecture：50% 分組討論 Group discussion：0% 案例研討 Case study：0%

	操做練習 Practical exercises：50% 講授 Lecture：%
教科書： Textbooks	Lind, Marchal, and Wathen, 2024, Statistical Techniques in Business & Economics, 19th ed. https://eshop.hwatai.com.tw/SalePage/index/8901870 華泰代理。
參考書目： References	陳乃維, 2024, 商用統計學 (Lind/Statistical Techniques in Business and Economics 19e)／19版。 https://eshop.hwatai.com.tw/SalePage/Index/9789161?garefersrc=HotsaleInCategory 華泰代理。
修課須知： Notice	1 Teaching assistants (TAs) will be available to provide support. 2 The course will utilize Moodle, Google Classroom, Mentimeter and Zuvio as learning platforms. 3 The syllabus provided above is for course shopping reference only. The official syllabus will be finalized after explanation and discussion with enrolled students during the first week of class. 4 All enrolled students are required to attend the Week 1 classes.
評量方式： Grading	1 Close Book Exams 40% (Ch8~11 & Ch12~16) 2 Individual Project 40% 3 Several Quiz and assignments 20% ◎ There is no comprehensive final exam. ◎ A quiz will not be informed in advance. ◎ Positive participation in class will gain extra credits.
備註說明： Notes	NA