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：葉瑞徽

Instructor:Ruey-Huei Yeh

課程名稱：統計學(二)

Course Title：Statistics (2)

2026/11/4

課程代號： IM3004302 Course Code 學分數： 3 Credits	必選修：必修/半學年 Required/Electve:Required/Half Yr. 先修課程： Prerequisites
節次教室： Time/Location	F6(MA-010) F7(MA-010) F8(MA-010)
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	This course is designed for a second introductory course in statistics for students majoring in engineering or management. It is about the basic concept of data description and statistical inference. This second course covers Sampling Distributions, Estimation, Hypotheses Testing, Simple Linear Regression, and part of Multiple Linear Regression. The objective is to give the students a sound understanding of the principles of Statistics.
課程大綱： Outline of Lectures	Week 01 Introduction & Review Week 02 Probability Distributions Review Ch 5-6 Week 03 Probability Distributions Review Ch 5-6 Week 04 Sampling Distributions Ch 8 Week 05 Sampling Distributions Ch 8 Week 06 Sampling Distributions Ch 8 Week 07 Estimation Ch 9 Week 08 Estimation Ch 9 Week 09 Midterm exam. Week 10 Estimation Ch 9 Week 11 Estimation Ch 9 Week 12 Hypotheses Testing Ch 10 Week 13 Hypotheses Testing Ch 10 Week 14 Hypotheses Testing Ch 10 Week 15 Simple Linear Regression Ch 11 Week 16 Final Exam.
授課方式： Method of Instruction	講授 Lecture：80% 分組討論 Group discussion：0% 案例研討 Case study：0% 操做練習 Practical exercises：20% 講授 Lecture：This course is mainly given by lectures and cooperated with games or exercises.%
教科書： Textbooks	Walpole, Myers, Myers, and Ye (2016) Probability and Statistics for Engineers and Scientists, Ninth Edition, Prentice Hall. 代理商: 偉明圖書有限公司
參考書目： References	

	“Introduction to Probability & Statistics”, 15 ed., By Mendenhall, Beaver, and Beaver, CENGAGE, 2018. “Modern Elementary Statistics”, 10 ed., By J. E. Freund, Prentice-Hall, 2001. “Basic Business Statistics - Concept and Applications”, 7 ed., by M. L. Berenson and D. M. Levine, Prentice-Hall, 1999.
修課須知： Notice	Classnotes can be downloaded from Moodle system. 本學期適逢多次國定假日，將視課程進度彈性調整休息時間與下課時間。
評量方式： Grading	Homework(30%) Mid-term Exam(30%) Final Exam(30%) Quizzes(10%) Class Attendance and Participation(10%)
備註說明： Notes	(1) This is an important college level course and requires the appropriate amount of work to be completed. (2) Students are mature adults who can be responsible for their actions. (3) The instructor’s office hours (or some review sessions) can be an excellent resource for you, but should not be considered as a substitute for the class.