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：陳維美

Instructor:Chen, Wei-Mei

課程名稱：離散數學

Course Title：Discrete Mathematics

2026/11/3

課程代號： ET4002701 Course Code 學分數： 3 Credits	必選修：選修/半學年 Required/Electve:Elective/Half Yr. 先修課程： Prerequisites
節次教室： Time/Location	M2(IB-713) W1(IB-713) W2(IB-713)
專業核心能力： Core Professional Competencies	
課程網址： Course Website	
課程宗旨： Course Objectives	集合及函數、邏輯、關係、歸納與遞迴、圖形理論 1. Counting Methods for Selection and Arrangements. 2. Inclusion-Exclusion Formula 3. Relations and Functions 4. Recurrence Relations 5. An Introduction to Graph Theory
課程大綱： Outline of Lectures	集合及函數、邏輯、關係、歸納與遞迴、圖形理論 1. Counting Methods for Selection and Arrangements. 2. Inclusion-Exclusion Formula 3. Relations and Functions 4. Recurrence Relations 5. An Introduction to Graph Theory
授課方式： Method of Instruction	講授 Lecture：80% 分組討論 Group discussion：20% 案例研討 Case study：0% 操做練習 Practical exercises：0% 講授 Lecture：%
教科書： Textbooks	Ralph P. Grimaldi, Discrete and combinatorial mathematics: an applied introduction, Fifth Edition, 2004
參考書目： References	Ryan T. White, Practical Discrete Mathematics,2021
修課須知： Notice	
評量方式： Grading	Participation 10% Quizzes and Assignments 30% Midterm Exam 30% Final Exam 30%
備註說明： Notes	