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：陳奕伸

Instructor:CHEN, YI-SHEN

課程名稱：線性代數

Course Title：Linear Algebra

2026/11/3

課程代號： IC2003301 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	T8(IB-410-2) W8(IB-410-2) W9(IB-410-2)
專業核心能力： Core Professional Competencies	1. 具備運用基礎數學、科學及工程知識的能力 2. 具備設計與執行實驗，以及分析與解釋數據的能力 3. 具有國際視野與良好的外語能力
課程網址： Course Website	None
課程宗旨： Course Objectives	This course explores the core concepts of linear algebra, including matrices and systems of equations, determinants, vector spaces, linear transformations, orthogonality, and eigenvalues. Through this curriculum, students will understand these fundamental principles and their applications in various fields.
課程大綱： Outline of Lectures	Matrices and Systems of Equations Determinants Vector Spaces Linear Transformations Orthogonality Eigenvalues Numerical Linear Algebra Canonical Forms
授課方式： Method of Instruction	講授 Lecture：100% 分組討論 Group discussion：0% 案例研討 Case study：0% 操做練習 Practical exercises：0% 講授 Lecture：%
教科書： Textbooks	“Linear Algebra with Applications”, Steven J. Leon and Lisette de Pillis, Pearson Education, Inc.
參考書目： References	“Linear Algebra with Applications”, Steven J. Leon and Lisette de Pillis, Pearson Education, Inc.
修課須知： Notice	None
評量方式： Grading	Quiz: 28% Midterm Exam: 25% Final Exam: 25% In-class Activities: 12% Participation: 10%

備註說明： None
Notes