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：張立中

Instructor:Li-Chung Chang

課程名稱：線性代數

Course Title：Linear Algebra

2026/11/3

課程代號： EE4005301 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	R8(EE-407) W6(EE-407) W7(EE-407)
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 is the course where students, especially EE majors, begin to acquire the mathematical tools used in the field of linear algebra and matrix theory. This course is to present the fundamentals of linear algebra and explore some applications of linear algebra.
課程大綱： Outline of Lectures	Matrices and Systems of Equations Determinants Vector Spaces Orthogonality
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：The EMI course is presented in a standard format of lectures in English, readings and problem sets.%
教科書： Textbooks	Linear Algebra with Applications, Tenth Edition, 2021 Steven J. Leon and Lisette de Pillis, Pearson Global Edition.
參考書目： References	Linear Algebra with Applications, Ninth Edition, 2015 Steven J. Leon, Pearson Global Edition. Linear Algebra with Applications, 7th Edition 導讀版, 2008 Steven J. Leon, Prentice Hall, Inc. 徐忠枝導讀
修課須知： Notice	All related class materials can be accessed from the Moodle system.
評量方式： Grading	The final grade will be an approximately weighted average of three exams(40%, 30% and 30%).
備註說明： Notes	Calculus is suggested.