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：徐慶琪

Instructor:Ching-Chi Hsu

課程名稱：材料力學

Course Title：Mechanics of Materials

2026/11/3

課程代號： ME2106302 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	M2(華夏恆毅樓D405) M3(華夏恆毅樓D405) M4(華夏恆毅樓D405)
專業核心能力： Core Professional Competencies	
課程網址： Course Website	
課程宗旨： Course Objectives	This course provides students with an understanding of the relation between the loads applied to a structural member and the resulting stresses and strains. The main topics covered are the analysis and design of the structural member subjected to tension, compression, torsion, and bending.
課程大綱： Outline of Lectures	Tension, Compression, and Shear Axially Loaded Members Torsion Shear Forces and Bending Moments Stresses in Beams Analysis of Stress and Strain Applications of Plane Stress Deflections of Beams
授課方式： Method of Instruction	講授 Lecture：70% 分組討論 Group discussion：0% 案例研討 Case study：30% 操做練習 Practical exercises：0% 講授 Lecture：%
教科書： Textbooks	Mechanics of Materials: SI Edition (9th) Barry J. Goodno/James M. Gere
參考書目： References	
修課須知： Notice	
評量方式： Grading	Midterm Exam: 40% Final Exam: 40% Quiz and Attendance: 20%
備註說明： Notes	