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：楊錦懷

Instructor:Young,Chin-Huai

課程名稱：鋼鐵材料微觀結構與巨觀行為

Course Title：Micro Mechanism and Macro-Properties of Steels

2026/11/3

課程代號：CT6200701 Course Code	必選修：選修/半學年 Required/Electve:Elective/Half Yr.
學分數：3 Credits	先修課程： Prerequisites
節次教室：R6(IB-602-2) R7(IB-602-2) R8(IB-602-2) Time/Location	
專業核心能力： Core Professional Competencies	
課程網址： Course Website	
課程宗旨： Course Objectives	金屬材料科學，波來鐵，麻田散鐵，肥粒鐵，熱處理，腐蝕，焊接，應用。 This course is based on teaching the relationship between micro-mecahnism and macro-properties of steels. In additons, the new technology steels are aslo introduced in this course in order to learn new steel design concept. Failure analysis of steels is also a significant part in this course because that it is so important to judge the correct reason of failure of steel structures.
課程大綱： Outline of Lectures	金屬材料科學，波來鐵，麻田散鐵，肥粒鐵，熱處理，腐蝕，焊接，應用。
授課方式： Method of Instruction	講授 Lecture：% 分組討論 Group discussion：% 案例研討 Case study：% 操做練習 Practical exercises：% 講授 Lecture：%
教科書： Textbooks	
參考書目： References	
修課須知： Notice	
評量方式： Grading	
備註說明： Notes	