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：江佳穎

Instructor:Chia-Ying Chian

課程名稱：質能均衡

Course Title：Material and Energy Balances

2026/11/3

課程代號：CE2110301 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：F8(IB-502) F9(IB-502) W1(IB-502) Time/Location	
專業核心能力：運用數學、科學及化學知識的能力 發掘、分析及處理問題的能力 Core Professional Competencies	
課程網址： Course Website	
課程宗旨：This course will introduce the basic calculations in chemical engineering involving material and energy balances, thermodynamic properties of pure substances, and chemical reactions. The course represents the foundation for subsequent chemical engineering courses. Additionally, problem-solving methodologies will be emphasized and students will be exposed to realistic chemical engineering applications. Course Objectives	
課程大綱：導論 質量平衡 氣液與相平衡 能量平衡 Outline of Lectures	
授課方式：講授 Lecture：% 分組討論 Group discussion：% 案例研討 Case study：% 操做練習 Practical exercises：% 講授 Lecture：% Method of Instruction	
教科書： Textbooks	
參考書目： References	
修課須知： Notice	
評量方式： Grading	
備註說明： Notes	