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：武德勝

Instructor:VO DUC THANG

課程名稱：物理化學(下)

Course Title：Physical Chemistry II

2026/11/3

課程代號： TE201B001 Course Code 學分數： 3 Credits	必選修：必修/全學年 Required/Electve:Required/Full Yr. 先修課程： Prerequisites
節次教室： Time/Location	F9(IB-508) T10(IB-508) T9(IB-508)
專業核心能力： Core Professional Competencies	運用數學、科學及工程知識的能力與執行工程實務所需技術、技巧及使用現代化工具的能力。
課程網址： Course Website	
課程宗旨： Course Objectives	1. This course is the second semester of a year-long course intended primarily for interdisciplinary program students who are required to complete a one-year course. 2. The main themes of this semester include: Quantum Theory, Atomic and Molecular Structure, Chemical Kinetics, Molecular Interactions, and Solid-State Chemistry.
課程大綱： Outline of Lectures	1. Pre-Quantum Mechanics. 2. Introduction to Quantum Mechanics 3. Quantum Mechanics: Model Systems and the Hydrogen Atom 4. Atoms and Molecules 5. The Kinetic Theory of Gases 6. Kinetics 7. Molecular Interactions 8. The Solid State: Crystals
授課方式： Method of Instruction	講授 Lecture：0% 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	David W. Ball. Physical Chemistry, 2E. Second Edition. Cengage Learning.
參考書目： References	Peter Atkins et al. Atkins' Physical Chemistry. International Edition.
修課須知： Notice	
評量方式： Grading	Quiz: 40% Mid-term Exam: 30% Final Exam: 30%
備註說明： Notes	None