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：Adhimoorthy

Instructor:Adhimoorthy Pra

課程名稱：化學(下)

Course Title：Chemistry (II)

2026/11/3

課程代號：TX165B003 Course Code	必選修：必修/全學年 Required/Electve:Required/Full Yr.
學分數：3 Credits	先修課程： Prerequisites
節次教室：F2(TR-309) F3(TR-309) R5(TR-309) W8(TR-309) Time/Location	
專業核心能力： Core Professional Competencies	
課程網址： Course Website	

課程宗旨： Course Objectives

Students will learn fundamental introductory concepts of chemistry, including those for chemical engineering, and apply this knowledge to the qualitative and quantitative analysis of organic, inorganic, and biochemical materials during class. Communicating effectively and clearly, using scientific terminology, notation, and conventions in chemistry, is the prime focus. which including

Chemical Kinetics
Chemical Equilibrium
Acids and Bases
Aqueous Ionic Equilibrium
Free Energy and Thermodynamics
Electrochemistry
Radioactivity and Nuclear Chemistry
Organic Chemistry
Biochemistry
Chemistry of the Nonmetals
Metals and Metallurgy
Transition Metals and Coordination Compounds

課程大綱： Outline of Lectures

Chemical Kinetics
Chemical Equilibrium
Acids and Bases
Aqueous Ionic Equilibrium
Free Energy and Thermodynamics
Electrochemistry
Radioactivity and Nuclear Chemistry
Organic Chemistry
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授課方式： Method of Instruction

講授 Lecture：60%

分組討論 Group discussion：15%

案例研討 Case study：15%

操做練習 Practical exercises：10%

講授 Lecture：%

教科書： Textbooks	
參考書目： References	
修課須知： Notice	
評量方式： Grading	Assessment I and II - 70 Marks (Written examination—multiple choice, short-answer, and structured questions) Assignments - 20 Marks Attendance: 10 Marks.
備註說明： Notes	