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：蕭偉文

Instructor:Wei-Wen Hsiao

課程名稱：環境工程(二)

Course Title：Environmental Engineering (II)

2026/11/3

課程代號：CH4413702 Course Code 學分數：3 Credits	必選修：選修/半學年 Required/Electve:Elective/Half Yr. 先修課程： Prerequisites
節次教室：R6(華夏恆毅樓D402) R7(華夏恆毅樓D402) R8(華夏恆毅樓D402) Time/Location	
專業核心能力： Core Professional Competencies	
課程網址： Course Website	
課程宗旨： Course Objectives	Environmental Engineering II focuses on the fundamental aspects of environmental engineering by examining how chemical industrialization and energy use contribute to air and solid pollution. Topics covered in the course include air pollution control (e.g., the greenhouse effect, acid precipitation, and ozone depletion), solid waste management, noise pollution, ionizing radiation, sustainable development, and green engineering. Upon successful completion of this course, students should be able to understand emerging environmental issues related to air and solid pollution and develop strong problem-solving skills in air pollution control and solid/hazardous waste management.
課程大綱： Outline of Lectures	1. Air Pollution (Fundamentals, Standards, Effects and Fate of Pollutants) 2. Air Pollution (Control) 3. Air Pollution (Dispersion of Pollutants) 4. Solid Waste Management 5. Hazardous Waste Management 6. Sustainability and Green Engineering
授課方式： Method of Instruction	講授 Lecture：70% 分組討論 Group discussion：20% 案例研討 Case study：10% 操做練習 Practical exercises：0% 講授 Lecture：%
教科書： Textbooks	Davis and Cornwell, Introduction to Environmental Engineering, 5th edition, McGraw-Hill, 2012.
參考書目： References	Additional reading materials will be made available in class.
修課須知： Notice	
評量方式： Grading	

1. Attendance: 10%
2. Participation: 10%
3. Assignments: 20%
4. Final Exam: 40%
5. Final Presentation (Group): 20%

備註說明： Notes	Lectured in English