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：高夢瑤

Instructor:Mengyao Gao

課程名稱：專題討論(二)

Course Title：Seminar(II)

2026/11/4

課程代號： CH4905302 Course Code 學分數： 0 Credits	必選修：必修/半學年 Required/Electve:Required/Half Yr. 先修課程： Prerequisites
節次教室： Time/Location	W8(IB-511-2) W9(IB-511-2)
專業核心能力： Core Professional Competencies	
課程網址： Course Website	NONE.
課程宗旨： Course Objectives	The seminar aims to cultivate students' ability to critically analyze, synthesize, and communicate advanced topics in chemical engineering and related disciplines. Through structured presentations, guided discussions, and scholarly exchange, students will deepen their understanding of current research trends and industrial developments.
課程大綱： Outline of Lectures	Speaker Affiliation Title 2/25 (Wed) Course introduction 3/4 (Wed) Prof. Tzu-Ho Wu NTUST-CHE Design Strategies for High-Performance Zn-Ion batteries 3/11 (Wed) Prof. Shu-Yuan Pan NTU-BSE TPD 3/18 (Wed) Prof. Yan-Ling Yang NTUST-CHE TPD 3/25 (Wed) Prof. Bor-Yih Yu NTU-CHE Towards a net-zero economy: Application of rigorous simulation and multi-aspect evaluation in chemical process development 4/1 (Wed) Prof. Tzu-Sen Su NTUST-INNC Perovskite Solar Cells: A Chemical Engineering Perspective from Lab to Market 4/8 (Wed) Dr. Tien-Yeh Wu Skytech TPD 4/15 (Wed) Midterm exam week 4/22 (Wed) Prof. Tsai-Wei Wu NCKU-CHE 系統邊界定義對程序系統工程研究的重要性 4/29 (Wed) Prof. Ardila Hayu Tiwikrama NTUT-CHE TPD 5/6 (Wed) Prof. Jui-Yuan Lee NCKU-CHE TPD 5/13 (Wed) Dr. Shu-Po Yang ITRI-MCL TPD 5/20 (Wed) Prof. Tse-Lun Chen NSYSU-IEE Aerosol Particle Size Distribution Associated with Air Pollution 5/27 (Wed) Prof. Kuan-Yu Lin NCKU-CHE TPD 6/3 (Wed) Prof. Chih-Yu Ko NTUT-CHE TPD 6/10 (Wed) Final exam week
授課方式： Method of Instruction	講授 Lecture：80% 分組討論 Group discussion：0% 案例研討 Case study：20% 操做練習 Practical exercises：0% 講授 Lecture：NONE.%
教科書： Textbooks	NONE.

參考書目： References	NONE.
修課須知： Notice	NONE.
評量方式： Grading	Component Percentage Attendance & Professional Conduct 40% Post-Seminar Reflection 40% Question Quality & Participation 20%
備註說明： Notes	Students are recommened to ask questions: (1) Experimental or methodological design. (2) Theoretical assumptions. (3) Data interpretation and reliability. (4) Engineering feasibility or scalability. (5) Future research directions. Academic Etiquette: During the Q&A session: Introduce yourself (name and department) before asking a question. Use clear and complete sentences. Maintain a professional and respectful tone.