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：鄭逸琳

Instructor:Yih-Lin Cheng

課程名稱：積層製造概論

Course Title：Introduction to Additive Manufacturing

2026/11/3

課程代號： ME4339701 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： M3(T3-304) W3(T3-304) W4(T3-304) Time/Location	
專業核心能力： Core Professional Competencies	
課程網址： N/A Course Website	
課程宗旨： Course Objectives	Introduction to Additive Manufacturing Processes: Principles and Practice
課程大綱： Outline of Lectures	Course Outline: 1. Introduction 2. Basic Principle of Additive Manufacturing 3. Commercial Additive Manufacturing Processes & Systems (3D Printers) 4. Rapid Tooling 5. Practices on 3D Printing and Rapid Tooling
授課方式： Method of Instruction	講授 Lecture：50% 分組討論 Group discussion：30% 案例研討 Case study：10% 操做練習 Practical exercises：10% 講授 Lecture：N/A%
教科書： Textbooks	N/A
參考書目： References	1. Class Notes and Handouts. 2. “Additive Manufacturing Technologies, 3rd edition” by Ian Gibson, David Rosen, Brent Stucker, and Mahyar Khorasani, 2021.
修課須知： Notice	N/A
評量方式： Grading	Midterm & Final: 50% Projects: 30% In-class assignment: 10% Class participation: 10%
備註說明： Notes	N/A