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：郭人介

Instructor:Ren-Jieh Kuo

課程名稱：生產與作業管理

Course Title：Production and Operations Management

2026/11/3

課程代號： IM3407302 Course Code 學分數： 3 Credits	必選修：必修/半學年 Required/Electve:Required/Half Yr. 先修課程： Prerequisites
節次教室： W2(MA-101) W3(MA-101) W4(MA-101) Time/Location	
專業核心能力： Core Professional Competencies	
課程網址： Course Website	
課程宗旨： Course Objectives	This course intends to provide the concepts of production and operations management, so that students can have the management skills that managers should have in manufacturing or service sectors, and further guide students how to apply these skills in management in order to enhance the business competitiveness. Through this course, students are able to have a rough understanding of the production and management skills currently used in the industry, and can easily participate in the operations of the industry.
課程大綱： Outline of Lectures	Week 1: Intro. to POM course Week 2: Intro. to operations mgt. (Ch. 1) Week 3: Competitiveness, strategy, and productivity (Ch. 2) Week 4: Forecasting (Ch 3) Week 5: Lab practice Week 6: Product & service design (Ch. 4) Week 7: Capacity planning for products and services (Ch. 5) Week 8: Midterm exam Week 9: Process selection & facility layout (Ch. 6) Week 10: Aggregate planning & master scheduling (Ch. 11) Week 11: Inventory management (Ch. 12) Week 12: Industrial lecture Week 13: MRP, ERP, and SCM (Chs.13, 15) Week 14: Scheduling (Ch. 16) Week 15: Final exam Week 16: Final project presentation II
授課方式： Method of Instruction	講授 Lecture：80% 分組討論 Group discussion：10% 案例研討 Case study：0% 操做練習 Practical exercises：10% 講授 Lecture：%
教科書： Textbooks	Stevenson, W. J. and Kull, T. J. Operations and Supply Chain Management, 15e, McGraw-Hill Education, New York, USA, 2024.
參考書目： References	None

修課須知： Notice	TA: Sean and Jerry
評量方式： Grading	1. Attendance: 10%. 2. Midterm exam: 30%. 3. Final exam: 30%. 4. Final project presentation: 30%.
備註說明： Notes	Prerequisites: Statistics and Introduction to Industrial Management.