

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

2026/5/5

<p>課程代號： IM3407302 Course Code</p> <p>學分數： 3 Credits</p>	<p>必選修：必修/半學年 Required/Electve:Required/Half Yr.</p> <p>先修課程： Prerequisites</p>
<p>節次教室： W2(MA-101) W3(MA-101) W4(MA-101) Time/Location</p>	
<p>專業核心能力： Core Professional Competencies</p>	
<p>課程網址： Course Website</p>	
<p>課程宗旨： 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. Course Objectives</p>	
<p>課程大綱： Week 1: Intro. to POM course Outline of Lectures 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</p>	
<p>授課方式： 講授 Lecture：80% Method of Instruction 分組討論 Group discussion：10% 案例研討 Case study：0% 操做練習 Practical exercises：10% 講授 Lecture：%</p>	
<p>教科書： Stevenson, W. J. and Kull, T. J. Operations and Supply Chain Management, 15e, McGraw-Hill Education, New York, USA, 2024. Textbooks</p>	
<p>參考書目： None References</p>	

修課須知： TA: Sean and Jerry
Notice

評量方式： 1. Attendance: 10%.
Grading 2. Midterm exam: 30%.
3. Final exam: 30%.
4. Final project presentation: 30%.

備註說明： Prerequisites:
Notes Statistics and Introduction to Industrial Management.