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：李強笙

Instructor:Lee, Chiang-She

課程名稱：存貨理論

Course Title：Inventory Theory

2026/11/3

課程代號： IM3121701 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： Time/Location	W2(MA-419) W3(MA-419) W4(MA-419)
專業核心能力： Core Professional Competencies	具備解決工業工程與管理問題之能力 管理專業知識(Comprehensive management knowledge) 研究商管議題之能力(Research capability in practical business discipline)
課程網址： Course Website	
課程宗旨： Course Objectives	Inventory includes products, semi-products and raw materials. Inventory management refers to the management for inventory of unsold goods and raw materials. The main purpose of this course is to introduce how to effectively control the inventory within a company or enterprise so as to minimize the total cost per unit or maximize the profit per unit. And through the knowledge of inventory theory, students are taught how to use mathematical methods to establish the best inventory model. Students can apply their previous knowledge of calculus and homework research to models that build inventory theory.
課程大綱： Outline of Lectures	The following materials are contained in this class. (1) What is inventory theory? (2) Review of Calculus for function of one variable. (3) Review of Calculus for function of two variables. (4) The introduction of EOQ (Economic Ordering Quantity) model. (5) The introduction of EPQ (Economic Production Quantity) model. (6) EOQ model for random demand. (7) EOQ model under shortage allowed. (8) EOQ model with deteriorating units. (9) The role of inventory theory in supply chain.
授課方式： Method of Instruction	講授 Lecture：70% 分組討論 Group discussion：0% 案例研討 Case study：0% 操做練習 Practical exercises：0% 講授 Lecture：Lecture 70%, Group Discussion + Case Study + Practice Training = 30%.%
教科書： Textbooks	Using Notes
參考書目： References	N/A
修課須知： Notice	

評量方式： Grading	30%	Homework
	20%	Report
	25%	Midterm
	25%	Final

備註說明： Notes	Basic Calculus