



教學計劃表 Syllabus

課程名稱(中文) Course Name in Chinese	生產與作業管理		學年/學期 Academic Year/Semester	114/2
課程名稱(英文) Course Name in English	Production and Operations Management			
科目代碼 Course Code	GSLM53600	系級 Department & Year	碩士	開課單位 Course-Offering Department
運籌管理研究所				
修別 Type	選修 Elective	學分數/時間 Credit(s)/Hour(s)	3.0/3.0	
授課教師 Instructor	/馬綱廷			
先修課程 Prerequisite				
課程描述 Course Description				
<p>The course provides an introduction to the concepts, scope, strategy, design and operations of manufacturing firms and service organizations. The course integrates various areas in quality assurance, product/service design, facility layout, operations processes, material and time allocation, and considers the strategic, tactic, and operations activities of transforming resources into value-added outputs. The issue of competitiveness is addressed with a global perspective. The course also covers analytical methods that are useful in enhancing the management of a firm's operations. For domestic manufacturing companies, the course introduces some Industry Supply Chains in Taiwan. The course provides an introduction to the concepts, scope, strategy, design and operations of manufacturing firms and service organizations. The course integrates various areas in quality assurance, product/service design, facility layout, operations processes, material and time allocation, and considers the strategic, tactic, and operations activities of transforming resources into value-added outputs. The issue of competitiveness is addressed with a global perspective. The course also covers analytical methods that are useful in enhancing the management of a firm's operations. For domestic manufacturing companies, the course introduces some Industry Supply Chains in Taiwan.</p>				
課程目標 Course Objectives				
介紹生產與作業管理在企業管理研究中之背景概念、使用技術・應用範圍以及其重要性				
系專業能力 Basic Learning Outcomes				課程目標與系專業能力相關性 Correlation between Course Objectives and Dept.'s Education Objectives
A	基礎運籌、供應鏈管理知識 Foundations on logistics and supply chain management			●
B	運籌系統管理知識 Knowledge on logistics system management			○
C	運籌工具方法知識 Knowledge on analytical tools and methodologies in logistics			○
D	語文表達能力 Language and communication skills			○
圖示說明 Illustration : ● 高度相關 Highly correlated ○ 中度相關 Moderately correlated				
授課進度表 Teaching Schedule & Content				
週次 Week	內容 Subject/Topics			備註 Remarks
1	Introduction to Operations Management (Ch1)			

2	Competitiveness, Strategy, and Productivity (Ch2)	
3	採購作業(ppt)與Project Management (ch17)	
4	Forecasting (Ch3)	
5	Strategic Capacity Planning for Products and Services (Ch5); Decision Theory (Ch5s)	
6	Process Selection and Facility Layout (Ch6)	
7	Aggregate Planning (Ch11)	
8	Master Scheduling (Ch11)	
9	期中考試週 Midterm Exam	
10	Inventory Management (Ch12)	
11	MRP and ERP (Ch13)	
12	MRP and ERP (Ch13)	
13	JIT and Lean Operations (Ch14)	
14	Scheduling (Ch16)	
15	Scheduling (Ch16)	
16	Supply Chain Management (Ch15)	
17	期末考試週 Final Exam	
18	Self-learning	

教學策略 Teaching Strategies

- 課堂講授 Lecture
 分組討論 Group Discussion
 參觀實習 Field Trip
 其他 Miscellaneous: through your NDHU e-learning system.

教學創新自評 Teaching Self-Evaluation

創新教學(Innovative Teaching)

- 問題導向學習(PBL)
 團體合作學習(TBL)
 解決導向學習(SBL)
 翻轉教室 Flipped Classroom
 磨課師 Moocs

社會責任(Social Responsibility)

- 在地實踐 Community Practice
 產學合作 Industry-Academia Cooperation

跨域合作(Transdisciplinary Projects)

- 跨界教學 Transdisciplinary Teaching
 跨院系教學 Inter-collegiate Teaching

- 業師合授 Courses Co-taught with Industry Practitioners

其它 other:

學期成績計算及多元評量方式 Grading & Assessments

配分項目 Items	配分比例 Percentage	多元評量方式 Assessments							
		測驗 會考	實作 觀察	口頭 發表	專題 研究	創作 展演	卷宗 評量	證照 檢定	其他
平時成績(含出缺席) General Performance (Attendance Record)	10%								
期中考成績 Midterm Exam	20%	✓							
期末考成績 Final Exam	25%		✓	✓					
作業成績 Homework and/or Assignments	25%	✓							
其他 Miscellaneous (Reading+Quizzes)	20%								

評量方式補充說明

Grading & Assessments Supplemental instructions

Mid-Exam: 20%; Final-Exam: 25%; Assignments: 25%; Literature Reading: 10%; ; Quizzes: 10%

教科書與參考書目 (書名、作者、書局、代理商、說明)

Textbook & Other References (Title, Author, Publisher, Agents, Remarks, etc.)

Text:

Operations Management, Stevenson, 14th ed., 2020, McGraw Hill.

References:

Operations and Supply Chain Management, Jacobs and Chase, 16th ed., 2020, McGraw Hill.

Operations Management, Cachon and Terwiesch, 2017, McGraw.

Principles of Operations Management, Heizer, Render and Munson, 11th ed., 2020, Pearson.

課程教材網址(含線上教學資訊,教師個人網址請列位於本校內之網址)

Teaching Aids & Teacher's Website(Including online teaching information.

Personal website can be listed here.)

其他補充說明 (Supplemental instructions)

Office Hours:

Students are welcome to ask questions by appointments or during the office hours. The information of the office hours held by the instructor is

Kang-Ting Ma (Tel.890-3031, ktma@gms.ndhu.edu.tw): Tuesdays 10 AM-12 PM or by appointment in Room D317 of Management School Build.