請尊重智慧財產權,合法影印資料並使用正版教科書。

Please consult Intellectual Property Rights before making a photocopy. Please use the textbook of copyrighted edition.

②图玄東華大學

教學計劃表 Syllabus

課程名稱(中文) Course Name in Chinese	生產與作業管理	1		學年/學期 Academic Year/Se	114/1		
課程名稱(英文) Course Name in English	Production and Operations Management						
科目代碼 Course Code	GSLMM0010	系級 Department 碩士 & Year		開課單位 Course-Offering Department	運	籌管理研究所	
修別 Type	必修 Required	學分數/時 Credit(s)/Hou		3.0/3.0			
授課教師 Instructor	/馬綱廷						
先修課程 Prerequisite							
課程描述 Course Description							

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

課程目標 Course Objectives

The course provides an introduction to the backgrounds, concepts, analytic methods, and application areas that are useful and important in managing the production and/or service operations of a firm.

operations. For domestic manufacturing companies, the course introduces some Industry Supply Chains

in Taiwan.

ar cas	that are abertal and important in managing the production and or service operation	Tono or a rirm.
	系專業能力	課程目標與系專業能 力相關性 Correlation between
	Basic Learning Outcomes	Course Objectives and Dept.'s Education Objectives
A	基礎供應鏈與運籌管理知識Foundations on supply chain and logistics management	•
В	供應鏈與運籌之系統管理知識Knowledge on managing systems in supply chain and logistics	•
С	供應鏈與運籌之分析工具知識Knowledge on logical and analytical tools for supply chain and logistics	•
D	語文表達能力Language and communication skills	0
圖示	説明Illustration :● 高度相關 Highly correlated ○中度相關 Moderately c	orrelated

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	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	Field Trip				
✓ 其他Mis	scellaneous: 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	로 웹 (SBL)				
翻轉教	室 Flipped Classroom					
社會責任(Social Responsibility)					
在地實施	踐Community Practice 產學合作 Industy-Academia Cooperati	on				
 	Transdisciplinary Projects)					
跨界教	學Transdisciplinary Teaching 跨院系教學Inter-collegiate Teaching	5				
業師合為	授 Courses Co-taught with Industry Practitioners					
其它 othe	r:					

學期成績計算及多元評量方式 Grading & Assessments									
配分項目	多元評量方式 Assessments								
Items	配分比例 Percentage	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)	20%								
期中考成績 Midterm Exam	20%	~							
期末考成績 Final Exam	35%		~	~					
作業成績 Homework and/or Assignments	25%	~							
其他 Miscellaneous									

評量方式補充說明

Grading & Assessments Supplemental instructions

Mid-Exam: 20%; Final-Exam: 35%; 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.