



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	113/1
課程名稱(英文) Course Name in English	Production and Operations Management			
科目代碼 Course Code	GSLMM0010	系級 Department & Year	碩士	開課單位 Course-Offering Department
運籌管理研究所				
修別 Type	必修 Required	學分數/時間 Credit(s)/Hour(s)	3.0/3.0	
授課教師 Instructor	/黃郁文			
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.				
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.				
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	基礎供應鏈與運籌管理知識 Foundations on supply chain and logistics management	●		
B	供應鏈與運籌之系統管理知識 Knowledge on managing systems in supply chain and logistics	●		
C	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	○		
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	Operations and Productivity (Ch 1)/The Global Environment and Operations Strategy (Ch 2)			
2	No class			
3	Project Management (Ch 3)/ Forecasting Demand (Ch 4)			
4	Managing Quality (Ch 6); Statistical Process Control (Supplement 6)			

5	Process Design (Ch 7); Capacity and Constraint Management (Supplement 7)	
6	Location Strategies (Ch 8); Layout Strategies (Ch 9)	
7	Rescheduled The schedule of all the class meetings is 2:10~3:30 and 3:40~5:00; the duration of each meeting (15 of them including two exams) is 160 mins instead of 150 mins (as normal).	
8	Human Resources, Job Design and Work Measurement (Ch 10)	
9	Midterm Exam	
10	Supply Chain Management (Ch 11); Supply Chain Management Analytics (Supplement 11)	
11	Managing Inventory_1 (Ch 12)	
12	Managing Inventory_2 (Ch 12)	
13	Aggregate Scheduling and S&OP (Ch 13)	
14	Material Requirements Planning and ERP (Ch 14)	
15	Scheduling for the Short Term (Ch 15)	
16	Lean Operations (Ch 16)	
17	Final Exam	
18		

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: Case Studies

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 General Performance									
期中考成績 Midterm Exam	20%	✓							
期末考成績 Final Exam	20%	✓							
作業成績 Homework and/or Assignments	25%						✓		
其他 Miscellaneous (Cases)	35%			✓	✓		✓		

評量方式補充說明

Grading & Assessments Supplemental instructions

The course will be in a mixed lecture-discussion orientation led by the instructor. All the course materials including homework assignments, case arrangements and announcements will be released through NDHU students' email accounts.

Exams: Midterm and Final

Homework Assignments: Students should submit individual work (hard copy) toward the assignments unless otherwise specified. Assignment will be announced one week before the due date or earlier.

Cases: The material of the cases will be based on, but not limited to, the textbook. Each student will be randomly designated as the presenter of an assigned case. Each assigned case is required to have a 10-15 minute in-class presentation; other students will be the discussants. As a discussant, each student should prepare your individual report within 2 pages. Students need to email your case/discussant's report to the instructor one day before the case is going to be discussed in the class. Take Case 1 as an example: The due date for the case/discussants' report of Case#1 is 2024/10/07 (before 11pm). The file name of your discussant's report has to be saved as "student ID_student name_Case#1" in a format of PDF.

Case preparation: Student is to extend the case to include relevant industry/company information for updated discussion. Quality of case report is assessed based on the analysis of the case itself (1/2) and the extended material (1/2).

Late assignments/cases will be accepted with only partial credits.

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, Heizer, Render and Munson, 13th ed., 2020, Pearson.

References:

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

Operations and Supply Chain Management, Jacobs and Chase, 15th ed., 2018, McGraw Hill.

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:

Monday and Tuesday 10:00-11:00 am or by appointment

Room: C318; Ext: 3021; Email: hjw