



## 教學計劃表 Syllabus

課程名稱(中文) Course Name in Chinese	倉儲規劃與營運系統		學年/學期 Academic Year/Semester	112/2
課程名稱(英文) Course Name in English	Warehouse Planning and Operations Systems			
科目代碼 Course Code	GSLM52700	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	/陳怡君			
先修課程 Prerequisite				
課程描述 Course Description				
<p>Modern warehouses have been turned from passive stock-keepers to active distributors and value generators on supply chains. This course will introduce to students the different roles of warehouses, and methods to benchmark and analyze them. Students are expected to spend time on searching information and giving presentations.</p> <p>The contents of the course are summarized below. Note that the two terms warehouse and distribution center are used as if they are interchangeable.</p> <ul style="list-style-type: none"> <li>• functionalities of warehouses</li> <li>• material handling equipment in warehouses</li> <li>• case studies on successive world-class warehouses</li> <li>• the design, benchmarking, and management of warehouses</li> <li>• the effect of modern technologies such as IOT, big data, automation on warehouses</li> </ul>				
課程目標 Course Objectives				
討論倉庫佈置與規劃如何因應不同物料之作業環境需求，以達到並符合效率化以及支持現代管理策略之發展。				
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			
2	Holiday			
3	Types of warehouses			

4	Amazon and Walmart	Assignment 1 assigned
5	Containerization and container terminals	
6	Automated warehouse	Presentation and Turn in Assignment 1
7	Failures of material handling systems	
8	Distribution Centers (DC)	Assignment 2 assigned
9	Project Proposal Presentation	
10	Measuring and Benchmarking	
11	Auto-detection and auto-recognition	Presentation and Turn in Assignment 2
12	Internet of Things	
13	Big data and trends in logistics	Assignment 3 assigned
14	Automation and robotics/ Benefit Analysis and Justification	
15	Order picking	Presentation and Turn in Assignment 3
16	Warehouse layout	
17	Project Final Presentation	
18	The 18th week for alternative curriculum	Turn in project written report

#### 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:

#### 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:

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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									
期末考成績 Final Exam									
作業成績 Homework and/or Assignments									
其他 Miscellaneous (_____)									
評量方式補充說明 Grading & Assessments Supplemental instructions									
Class Participation	10%								
Assignments	10%								
Project Proposal Presentation	20%								
Project Final Presentation	30%								
Written Project Report	30%								
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.)									
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)									