

國立東華大學
教學計劃表 Syllabus

課程名稱(中文) Course Name in Chinese	生產計劃與排程			學年/學期 Academic Year/Semester	114/1
課程名稱(英文) Course Name in English	Production Planning and Scheduling				
科目代碼 Course Code	GSLM51900	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/馬綱廷				
先修課程 Prerequisite					
課程描述 Course Description					
The course introduces to students basic concepts of production planning (i.e., forecasting, aggregate planning, MPS, MRP, capacity planning) and representative topics in scheduling (i.e., single machine scheduling, parallel machine scheduling, job-shop scheduling, flow-shop scheduling, and open-shop scheduling). The course material provides students typical concepts of and tools for planning and scheduling in industrial settings.					
課程目標 Course Objectives					
提供對生產管理進一步研究之課程。					
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 Production Planning and Scheduling				
2	Forecasting				
3	Forecasting/ Capacity Planning				
4	Capacity Planning				
5	Aggregate Planning (AP)				
6	Master Production Scheduling (MPS)				

7	Master Production Scheduling (MPS)/ Material Requirement Planning (MRP)	
8	Material Requirement Planning (MRP)	
9	Scheduling	
10	Scheduling	
11	Midterm Project Presentation	
12	期中考試週 Midterm Exam	
13	Inventory Management (EOQ)	
14	Inventory Management (Newsboy Vendor)	
15	Theory of Constraints (TOC)	
16	Production Activity Control (PAC)/ Advanced Planning and Scheduling (APS)	
17	Exam II	
18	Final Project Presentation	

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:

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)									
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 1st : 5% Class Participation, 10% Homeworks, 20% Midterm Project Presentation, 25% Midterm Exam 2nd : 5% Class Participation, 5% Homeworks, 20% Final Project Presentation, 10% Exam II									
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.) 生產計畫與管理，第二版，林則孟著，華泰文化，2012.									
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.) 1. Sule, Dileep R. (2008) Production Planning and Industrial Scheduling: Examples, Case Studies and Applications, 2nd edition, CRC Press. 2. Pinedo, Michael L. (2016) Scheduling: Theory, Algorithms, and Systems, 5th edition, Springer.									
其他補充說明 (Supplemental instructions)									