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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	103/1
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	必修 Required	學分數/時間 Credit(s)/Hour(s)	3.0/3.0		
授課教師 Instructor	/吳政翰				
先修課程 Prerequisite					

課程描述 Course Description

Description:

This course will give a broad outlook on the area of within-plant operations and optimization.

Objective:

This course will give a broad outlook on the area of within-plant operations and optimization. This course is taught to let the students familiar with the basic concepts of production planning and industrial scheduling. This course will cover several key topics of production planning, such as forecasting, Aggregate planning, MPS, MRP, Capacity planning. It will also include basic topics of production scheduling, such as single machine scheduling, parallel machine scheduling, job-shop scheduling, flow-shop scheduling, and open-shop problems. Besides the textbook, the theory of the constraints and the bottleneck management are also discussed in class.

Instructor 吳政翰 (Wu, Gen-Han)
Room: 管C308
Phone: 03-863-3167
Email: genhanwu@mail.ndhu.edu.t

課程目標 Course Objectives

提供對生產管理深一步研究之課程。

	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	1. 課程說明 2. Intro to Production Planning and Scheduling	09/18
2	Forecasting and Aggregate Planning	09/2
3	Forecasting and Aggregate Planning	10/0
4	Master Production Scheduling and Material Requirement Planning	10/09
5	Inventory (I)	10/16
6	Inventory (II) & Capacity Planning	10/23
7	Single Machine Scheduling (I)	10/3
8	Single Machine Scheduling (II)	11/06
9	Midterm Exam	11/1
10	Shop Scheduling and Flow Shop Scheduling	11/20
11	Parallel Machine Scheduling	11/27
12	Network-based Scheduling	12/04
13	Job Shop Scheduling	12/11
14	Open Shop Scheduling	12/1
15	1. Production and Scheduling in Service 2. Theory of Constraints and Bottleneck Managemen	12/25
16	元旦放	01/01
17	Case Presentatio	01/08
18	Paper Presentation	01/15

教 學 策 略 Teaching Strategies

- [x] 課堂講授 Lecture
- [x] 分組討論Group Discussion
- [ ] 參觀實習 Field Trip
- [x] 其他Miscellaneous: paper presentation, case studies

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	35%	✓							
期末考成績 Final Exam									
作業成績 Homework and/or Assignments	15%		✓						商業小說(目標)閱讀心得
其他 Miscellaneous (paper presentation 30% case presentation 20%)	50%			✓					

評量方式補充說明 Grading & Assessments Supplemental instructions
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.)
Textbook: 1. Production Planning and Industrial Scheduling: Examples, Case Studies and Applications, 2nd edition, SULE, Dileep R., CRC Press, 2008.(科大文化代理) References: 1. 生產計畫與管理, 第二版, 林則孟著,華泰文化, 2012.= 2. 目標:簡單而有效的常識管理, 高德拉特著, 齊若蘭譯,天下文化, 2006.
課程教材網址（教師個人網址請列在本校內之網址） Teaching Aids & Teacher's Website (Personal website can be listed here.)
其他補充說明 (Supplemental instructions)