南臺科技大學 106 學年度第 1 學期課程資訊

課程代碼	N0M00801
課程中文名稱	生產與作業管理
課程英文名稱	Production and Operations Management
學分數	3.0
必選修	必修
開課班級	碩商管國際二甲
任課教師	朱大中
上課教室(時間)	週四第 2 節(E0604) 週四第 3 節(E0604) 週四第 4 節(E0604)
課程時數	3
實習時數	0
授課語言 1	英語
授課語言 2	
輔導考照 1	
輔導考照 2	
課程概述	The objective of this course is to introduce students the principles and concepts of operations management. Questions and discussions are welcome in the class.
先修科目或預備能力	
課程學習目標與核心能力之對應	
中文課程大綱	Topics for this course include, but not limited to: 1. Introduction a. Operations management b. Competitiveness, strategy, and productivity 2. Forecasting a. Weighted-average forecast b. Exponential smoothing forecast c. Linear trend forecast d. Seasonal relatives e. Control charts to monitor forecast errors 3. Product Design a. Quality Function Deployment 4. Capacity planning a. Measuring capacity b. Calculating processing requirements

	c. Cost volume analysis 5. Process Selection and Facility Layout a. Basic processing layouts b. Line-balancing problems 6. Location Planning a. Cost-profit-volume analysis 7. Quality Management a. Determinants of quality b. TOM c. Six sigma 8. Quality control a. Control charts b. Run tests c. Process capability 9. Master Scheduling & MRP 10. Inventory management a. EOQ b. EPQ c. Reorder point d. Safety stock e. Fixed-quantity vs. Fixed-interval ordering f. Single-Period Model 11. Scheduling a. Hungarian method b. Johnson's rule
英/日文課程大綱	Topics for this course include, but not limited to: 1. Introduction a. Operations management b. Competitiveness, strategy, and productivity 2. Forecasting a. Weighted-average forecast b. Exponential smoothing forecast c. Linear trend forecast d. Seasonal relatives e. Control charts to monitor forecast errors 3. Product Design a. Quality Function Deployment 4. Capacity planning a. Measuring capacity b. Calculating processing requirements

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課程進度表	Week 1:Introduction Week 2-4:Forecasting Week 5-6:System Design Week 7-8:Quality Management Week 9: Midterm Exam week 10-11:Quality Control Week 12:Inventory management week 13-15:Inventory Control Week 15:MRP Week 16:JIT and Lean production Week 17:Scheduling & Supply chain management Week 18:Final Exam
教學方式與評量方法	

指定用書	書名：Operations Management 作者：William J. Stevenson 書局：McGraw-Hill 年份：2014 ISBN：9789863411482 版本：12
參考書籍	Operations Management, 10th Edition, by Chase, Jacobs and Aquilano, McGraw Hill 2.
教學軟體	
課程規範	