



課 綱 Course Outline

管理學院管理科學與財金國際學士學位學程學士班

中文課程名稱 Course Name in Chinese	生產與作業管理				
英文課程名稱 Course Name in English	Production and Operations Management				
科目代碼 Course Code	MSF_10430	班 別 Degree	學士班 Bachelor' s		
修別 Type	學程 Program	學分數 Credit(s)	3.0	時 數 Hour(s)	3.0
先修課程 Prerequisite					
課程目標 Course Objectives					
<p>Any firm, no matter in the manufacturing or service sector, transforms resources to outputs by carrying out various operations. While the detailed operations are sector and even firm dependent, there are general principles depending neither on sector nor firm that lead to quality, timely, and value-added outputs. Production and operations management is the study of such general principles.</p> <p>To do so, the course introduces the concepts, scope, strategy, design and operations of manufacturing firms and service organizations. Essential operations decisions in forecasting, product design, process design and control, quality assurance, location analysis, project management, and supply chain management are discussed topic by topic.</p>					
系教育目標 Dept.' s Education Objectives					
1	培育具備良好數量分析能力之管理人才。 Cultivating management professionals with outstanding ability in quantitative analysis.				
2	培育具備財務金融專業知識之人才。 Cultivating professionals with finance-specific knowledge.				
3	培育具備國際視野與外語溝通能力之人才。 Cultivating professionals with a global vision and the ability in foreign-language communication.				
4	培育具備決策分析與問題解決之技能的管理人才。 Cultivating management professionals with knowledge and skills in decision analysis and problem solving.				

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	能以數量方法分析與解決問題。 Using quantitative methods to analyze and solve problems.	●
B	具備財務金融領域之分析能力。 Equipped with the ability to analyze finance.	
C	能善用資訊科技進行資料分析、統整與呈現。 Using information technology to analyze, integrate, and present data.	○
D	具備國際視野與專業外語能力。 Equipped with a global vision and specialized foreign language proficiency.	○
E	具備掌握財經時事議題及研判財經趨勢之能力。 Equipped with the ability to master topics of finance and economy, and other current news, and to diagnose financial and economic tendencies.	
F	具備一般管理的基礎知識。 Equipped with basic knowledge of management in general.	●

圖示說明 Illustration : ● 高度相關 Highly correlated ○ 中度相關 Moderately correlated

課程大綱
Course Outline

- Operations and Productivity
- The Global Environment & Operations Strategy
- Forecasting
- Product Design
- Process Design
- Aggregate Planning
- Material Requirement Planning
- Scheduling for the Short-Term
- Quality Management and International Standards
- JIT, Lean Operations, and the Toyota Production System
- Supply Chain Management
- Management Inventory
- Location Decisions
- Layout Strategies
- Project Management

資源需求評估 (師資專長之聘任、儀器設備的配合 . . . 等)
Resources Required (e.g. qualifications and expertise, instrument and equipment, etc.)

Any instructor should better hold a Ph.D. degree in Industrial Engineering or related fields with experience in production and service operations.

課程要求和教學方式之建議
Course Requirements and Suggested Teaching Methods

Teaching methods: lecture, case study, group discussion, and presentation

其他
Miscellaneous

