

SYLLABUS

Date/ Revision April 10, 2017

Faculty Business and Social Sciences

Approval Dr. Samuel Prasetya

SUBJECT: SUPPLY CHAIN MANAGEMENT

1. Identification of Subject:

Name of Subject : Supply Chain Management

Code of Subject : SUCM-2000

SKS / ECTS : 3 SKS Semester : 4/5/6

Study Program : B-AVM/B-IBA/B-MGT

Lecturer : Ficky Alkarim, MSc, Dr. Samuel Prasetya, Dr. Satiri & Dr. Firdaus Basbeth

2. Competency

After having the course, students are expected to:

- a) understand what is the Supply Chain
- b) understand the Supply Chain Performance: Achieving Strategic Fit and Scope
- c) understand the Supply Chain Drivers and Metrics
- d) understand the Network Design in the Supply Chain
- e) have the ability to analyze the Pricing and Revenue Management in a Supply Chain
- f) understand the Information Technology and the Supply Chain
- g) understand the Coordination in a Supply Chain

3. Description of Subject:

This course bring together the strategic role of the supply chain, key strategic drivers of supply chain performance, and the underlying tools and techniques for supply chain analysis. Students are able to articulate the strategic importance of supply chain thinking and support their ideas with evidence that can be built using models.

4. Learning Approach

Approach : Combination of expository - inquiry and collaborative
Method : Discussions, questions/answers, sample problems/cases

Student Task : Quizzes and group projects

Media : LCD projector

5. Evaluation

a) Non-attendance maximum : 25%
b) Homework/Projects : 20 points
c) Presentation, Simulation : 10 points
d) Quiz : 10 points
e) Final Examination : 60 points
Total : 100 points

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6. Contents/Topics of Lecturing:

Week	Content / Topics of Lecturing	Text Book Chapter	Remark
1	Understanding the Supply Chain & Supply Chain Performance: Achieving Strategic Fit and Scope What Is a Supply Chain? The Objective of a Supply Chain The Importance of Supply Chain Decisions Decision Phases in a Supply Chain Process View of a Supply Chain Examples of Supply Chains Competitive and Supply Chain Strategies Achieving Strategic Fit Expanding Strategic Scope	Chapter 1 & 2	
2	Supply Chain Drivers and Metrics Drivers of Supply Chain Performance Framework for Structuring Drivers Facilities Inventory Transportation Information Sourcing Pricing Obstacles to Achieving Fit	Chapter 3	
3	Designing Distribution Networks and Applications to e-Business The Role of Distribution in the Supply Chain Factors Influencing Distribution Network Design Design Options for a Distribution Network E-Business and the Distribution Network Distribution Networks in Practice	Chapter 4	
4	 Network Design in the Supply Chain The Role of Network Design in the Supply Chain Factors Influencing Network Design Decisions Framework for Network Design Decisions Models for Facility Location and Capacity Allocation The Role of IT in Network Design Making Network Design Decisions in Practice 	Chapter 5	Quiz 1 Draft 1
5	 Network Design in an Uncertain Environment The Impact of Uncertainty on Network Design Discounted Cash Flow Analysis Representations of Uncertainty Evaluating Network Design Decisions Using Decision 	Chapter 6	





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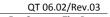




Week	Content / Topics of Lecturing	Text Book Chapter	Remark
	 Trees AM Tires: Evaluation of Supply Chain Design Decisions Under Uncertainty Risk Management and Network Design Making Supply Chain Decisions Under Uncertainty in Practice 		
6	 Demand Forecasting in a Supply Chain The Role of Forecasting in a Supply Chain Characteristics of Forecasts Components of a Forecast and Forecasting Methods Basic Approach to Demand Forecasting Time-Series Forecasting Methods Measures of Forecast Error Forecasting Demand at Tahoe Salt The Role of IT in Forecasting Risk Management in Forecasting Forecasting in Practice 	Chapter 7	
7	Review	Chapter 1- 7	Quiz 2 Draft 2
8	Semester Break: Only Make-Up Classes		
9	Aggregate Planning in a Supply Chain & Planning Supply and Demand in a Supply Chain: Managing Predictable Variability The Role of Aggregate Planning in a Supply Chain The Aggregate Planning Problem Aggregate Planning Strategies Aggregate Planning Using Linear Programming Aggregate Planning in Excel The Role of IT in Aggregate Planning Implementing Aggregate Planning in Practice Responding to Predictable Variability in a Supply Chain Managing Supply Managing Demand Implementing Solutions to Predictable Variability in Practice	Chapter 8 & 9	
10	Managing Economies of Scale in a Supply Chain: Cycle Inventory & Managing Uncertainty in a Supply Chain: Safety Inventory The Role of Cycle Inventory in a Supply Chain Economies of Scale to Exploit Fixed Costs Economies of Scale to Exploit Quantity Discounts	Chapter 10 & 11	

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Week	Content / Topics of Lecturing	Text Book Chapter	Remark
	 Short-Term Discounting: Trade Promotions Managing Multi-echelon Cycle Inventory Estimating Cycle Inventory-Related Costs in Practice The Role of Safety Inventory in a Supply Chain Determining Appropriate Level of Safety Inventory Impact of Supply Uncertainty on Safety Inventory Impact of Aggregation on Safety Inventory Impact of Replenishment Policies on Safety Inventory Managing Safety Inventory in a Multi-echelon Supply Chain The Role of IT in Inventory Management Estimating and Managing Safety Inventory in Practice 		
11	 Determining the Optimal Level of Product Availability & Transportation in a Supply Chain The Importance of the Level of Product Availability Factors Affecting Optimal Level of Product Availability Managerial Levers to Improve Supply Chain Profitability Setting Product Availability for Multiple Products Under Capacity Constraints Setting Optimal Levels of Product Availability in Practice The Role of Transportation in a Supply Chain Modes of Transportation and Their Performance Characteristics Transportation Infrastructure and Policies Design Options for a Transportation Network Trade-Offs in Transportation Design Tailored Transportation The Role of IT in Transportation Risk Management in Transportation Making Transportation Decisions in Practice 	Chapter 12 & 13	
12	Sourcing Decisions in a Supply Chain The Role of Sourcing in a Supply Chain In-House or Outsource Third- and Fourth-Party Logistics Providers Supplier Scoring and Assessment Supplier Selection-Auctions and Negotiations Contracts and Supply Chain Performance	Chapter 14	Quiz 3 Draft 3









Week	Content / Topics of Lecturing	Text Book Chapter	Remark
	Design Collaboration		
	The Procurement Process		
	 Sourcing Planning and Analysis 		
	The Role of IT in Sourcing		
	 Risk Management in Sourcing 		
	 Making Sourcing Decisions in Practice 		
	Pricing and Revenue Management in a Supply Chain		
	 The Role of Pricing and Revenue Management in a Supply Chain 		
	 Pricing and Revenue Management for Multiple 		
	Customer Segments		
	 Pricing and Revenue Management for Perishable 	Chapter 15	
13	Products		
	 Pricing and Revenue Management for Seasonal 		
	Demand		
	 Pricing and Revenue Management for Bulk and Spot 		
	Contracts		
	The Role of IT in Pricing and Revenue Management		
	 Using Pricing and Revenue Management in Practice 		
	Information Technology and the Supply Chain		
	The Role of IT in a Supply Chain		
	The Supply Chain IT Framework		
	 Customer Relationship Management 		
	Internal Supply Chain Management	Chapter 16	
14	Supplier Relationship Management		
	The Transaction Management Foundation		
	The Future of IT in the Supply Chain		
	Risk Management in IT		
	Supply Chain IT in Practice		
	Coordination in a Supply Chain		
	Lack of Supply Chain Coordination and the Bullwhip		
	Effect		
	The Effect on Performance of Lack of Coordination Obstacles to Coordination in a Swaphy Chair.		
	Obstacles to Coordination in a Supply Chain		
1 -	Managerial Levers to Achieve Coordination Nullding Strategie Bortographing and Trust Within a	Chantar 17	Quiz 4
15	 Building Strategic Partnerships and Trust Within a Supply Chain 	Chapter 17	Draft 4
	Continuous Replenishment and Vendor-Managed		
	Inventories		
	 Collaborative Planning, Forecasting, and 		
	Replenishment (CPFR)		
	The Role of IT in Coordination		







Week	Content / Topics of Lecturing	Text Book Chapter	Remark
	Achieving Coordination in Practice		
16	Semester Break: Only Make-Up Classes		
		All	
17	Final Examination	Chapters	
		(1-17)	

7. Book Reference:

a) Main Textbook

Sunil Chopra and Peter Meindl, Supply Chain Management: Strategy, Planning, and Operation, 3th Edition, New Delhi: Dorling Kindersley (India) Pvt. Ltd

b) Supplement Articles

Various online journal articles





