

NATIONAL UNIVERSITY OF SINGAPORE
School of Business

DOS3701 Supply Chain Management

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Course Objectives

This module builds on DSC2006/DAO2703 Operations Management / Operations and Technology Management, is companion to DOS3702 Purchasing & Materials Management, DOS3703 Service Operations Management, DOS3718 Physical Distribution Management, DOS3704 Operations Strategy, and prepares for continuation into DSC4211 Seminars in Ops & Supply Chain Management and Field Service Projects. Our objectives of this course are to allow the students to:

- Develop a systematic framework for analyzing the behavior of large and complex supply chain networks.
- Understand the relationship and motivations of suppliers and distributors to ensure supplies of raw materials and markets for finished goods.
- Discover the state of the art technologies and approaches that reduce production, inventory and transportation costs as well as supply lead time.
- Integrate production and inventory control methods in multi-plant distribution strategies.
- Understand supply chain sourcing, tax planning, and trade management issues in global supply chain Management.
- Leverage Information Technology & SCM Systems
- Understand export controls, sanctions and ethical laws
- Understand sustainable and green supply chains, economic & political trends in Asia

Prerequisites

Knowledge of basic calculus, elementary probability and the Normal Distribution.

Syllabus

Fierce competition in today's global markets has forced manufacturing enterprises to invest heavily in logistics systems. In such systems, items are produced at one or more factories, shipped to warehouses for intermediate storage, and then shipped to retailers. Consequently, to reduce cost and improve service levels, logistics strategies must account for the interactions of the various levels in the supply chain. This, together with the changes in communications and transportation technologies, e.g., mobile communication and overnight delivery, has motivated continuous evolution in logistics systems. In recognition of these developments, the program offers a course on the design and management of the supply chain. In this course we review state of the art planning models and practical tools for inventory control, distribution management and multi-plant coordination.

In particular we address issues such as:

- Optimal design of the logistics network.
- Adequate safety stock levels and the risk pooling concept.
- Cost effective distribution strategies.
- Strategic alliances and Outsourcing.
- The effect of e-business on supply chain strategy
- Supply chain integration and coordination
- Integrate production and inventory control methods in multi-plant distribution strategies.
- Supply chain sourcing, tax planning, and trade management in global supply chain Management.
- Information Technology & SCM Systems
- Export controls, sanctions and ethical laws
- Sustainable and green supply chains, economic & political trends in Asia

Main Text

Designing and Managing the Supply Chain: Concepts Strategies and Case Studies, Simchi-Levi, Kaminsky and Simchi-Levi, 2007, Third Edition, Irwin/McGraw-Hill.

Reference Text

Logistics & supply chain management, Martin Christopher, 4th ed. / 2011

Supply Chain Management: Strategy, Planning, and Operation, Sunil Chopra and Peter Meindl, 2012, Fifth Edition, Pearson.

Evaluation

Group Homework	30%
Final Exam	40%

Individual Homework	20%
Class Participation	10%

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Academic integrity and honesty is essential for the pursuit and acquisition of knowledge. The University and School expect every student to uphold academic integrity & honesty at all times. Academic dishonesty is any misrepresentation with the intent to deceive, or failure to acknowledge the source, or falsification of information, or inaccuracy of statements, or cheating at examinations/tests, or inappropriate use of resources.

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