

# Introduction to Supply Chain Management (공급 사슬망 관리)

Fall 2015

**Department:** Industrial & Systems Engineering  
**Course No. :** IE426  
**Class hours:** 9:00AM – 10:30AM T/R  
**Instructor:** Professor Youngjae Jang, [yjang@kaist.ac.kr](mailto:yjang@kaist.ac.kr)  
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## Course Overview

This course will provide an introduction to methods for managing production, inventory, and distribution systems. Topics covered include demand forecasting, capacity planning, facility location, production planning and scheduling, inventory control, and supply chain coordination. The objective of the course is to familiarize you with quantitative models that can be used to make decisions in each of these areas. **Special emphasis will be given to the link between theories and actual applications in industries. Various actual cases, including Amazon.com, Zara, BMW Automotive, Dell Computer, HP, Nike, and LG Electronics will be discussed.** This course is highly recommended to students who are pursuing a career in business consulting, project management, manufacturing engineering, business operations/planning, and other fields requiring strong analytical skills in Supply Chain Management.

## Prerequisite

- OR1
- Manufacturing Innovations (제조 프로세스 혁신)
- An introductory course in probability and statistics.

## Textbook (not required)

- Lecture materials and industry case studies prepared by the instructor will be provided.
- Some of the references include:
  - *Supply Chain Logistics Management*, 2nd edition, by Bowersox et al
  - *Design and Managing the Supply Concept, Strategies and Case Studies*, Simchi-Levi et al, McGraw-Hill, Third Edition
  - *Factory Physics*, Hopp, McGraw-Hill, Second Edition
  - *Manufacturing Systems Engineering*, Gershwin, Prentice Hall
  - *The Logic of Logistics: Theory, Algorithms, and Applications for Logistics and Supply Chain Management*. 2nd ed. New York, NY: Springer, 2004.

- *Harvard Business Review*, periodical, Harvard Business School Press.
- *MIT Sloan Management Review*, periodical, MIT Sloan Management Review Assoc.
- *Interfaces*, periodical, INFORMS.
- *The Logic of Logistics: Theory, Algorithms, and Applications for Logistics and Supply Chain Management*. 2nd ed. New York, NY: Springer, 2004.
- 동아 비즈니스 리뷰 (Dong-A Business Review)
- 경영학 콘서트, 비즈니스북스 2010.

## **Grading**

- \* 3 Quizzes (30%)
- \* +10 Pop-up Quizzes (10%)
- \* Assignments (30%)
- \* Project (20%)
- \* Class participant (10%)