

GLOBAL SUPPLY CHAIN MANAGEMENT

Number of credits: 2 ECTS

Course period: Fall second half-semester / 4 classes (2 lectures + 2 seminars) per week

Language of Instruction: English

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Course description

This course is developed in order to provide general information about supply chain management.

Prerequisites

Logistics, International Logistics

Course outline

Lecture 1. Supply chain management concept and basic notions. 1st and 2nd tiers of suppliers and customers, bullwhip effect.

Lecture 2. Supply chain reference models. SCOR-model.

Lecture 3. Supply chain process KPI.

Lecture 4. Planning Demand and supply in a supply chain: demand forecasting, aggregate planning, master production scheduling.

Lecture 5. Planning and managing inventories in a supply chain: cycle inventory, safety inventory, determining the optimal level of product availability.

Lecture 6. Sourcing in supply chain management. Risk management.

Lecture 7. Automation in supply chain management. SCM-class software. Supply chain modeling software (using AnyLogistix as an example).

Assignments

- Successful supply chain description (presentation)
- Supply chain failure case (presentation)

- Demand forecasting (calculations)
- Master production scheduling (calculations)
- SCM ERP-module or SRM-class application description (presentation)
- Creating supplier evaluation model

Examination

3 hours, written

Course evaluation

10% attendance, 30% group project, 10% test, 50% final exam

Core reading

1. Bowersox D.J. Logistical Management. The Integrated Supply Chain Process / Donald J. Bowersox, David J. Closs. – MacGrow-Hill, 2002. – 656 p.
2. Chopra Sounil. Supply Chain Management. Strategy, planning and operation. – Prentice-Hall, Upper Saddle River, 2007. –536 p
3. Hugos M. Essentials of Supply Chain Management. – John Wiley and Sons, Ltd, 2011. – 352 p.
4. Jimmy Anklesaria, The Supply Chain Cost Management: Aim and Drive Eight Steps to Managing the Cost of the Supply Chain. – AMACOM, 2008. – 230 p.
5. Pawar K. Developments in logistics and supply chain management. – Palgrave Macmillan, 2016. –295 p.