

MGT-528

**Operations: economics & strategy**

Weber Thomas

Cursus	Sem.	Type
Management, Technology and Entrepreneurship minor	H	Opt.
Managmt, tech et entr.	MA1, MA3	Opt.
Systems Engineering minor	H	Opt.

Language of teaching	English
Credits	4
Session	Winter
Semester	Fall
Exam	Written
Workload	120h
Weeks	14
<b>Hours</b>	<b>3 weekly</b>
Courses	3 weekly
<b>Number of positions</b>	

**Summary**

Supply-chain management within a firm is concerned with the flow of goods and services from firms to consumers. This course provides an overview of the economic drivers and technological possibilities for designing a successful supply-chain strategy, especially in view of information flows.

**Content**

Readings and cases are used to discuss the following topics:

1. Origin and Scope of Supply-Chain Management
2. Supply-Chain Coordination
3. Strategic/Tactical/Operational Decisions
4. Performance Metrics
5. Inventory Management: Basics
6. Dealing with Risk
7. Information Sharing and Enabling Information Technologies
8. Cooperation and Relational Contracts
9. Sourcing Decisions and Contracting
10. Recent & Special Issues

**Keywords**

Economic Models, Operations, Strategic Management

**Learning Prerequisites****Important concepts to start the course**

Basic calculus & economics & statistics

**Learning Outcomes**

By the end of the course, the student must be able to:

- Realize strategic significance of operational decisions
- Create a dynamic strategic plan
- Develop structural insights
- Solve basic quantitative models
- Construct performance metrics
- Optimize operational decisions in the presence of uncertainty and competition
- Transpose concepts to concrete application (project)

**Transversal skills**

- Set objectives and design an action plan to reach those objectives.
- Use a work methodology appropriate to the task.
- Communicate effectively with professionals from other disciplines.
- Assess one's own level of skill acquisition, and plan their on-going learning goals.
- Collect data.
- Make an oral presentation.
- Write a scientific or technical report.
- Access and evaluate appropriate sources of information.

### **Assessment methods**

Continuous assessment combining:

20% Homework

40% Team project

40% Take-home exam (during the official winter exam session)

### **Resources**

#### **Bibliography**

Reading bulkpack

#### **Websites**

- <http://econspace.net/MGT-528.html>