

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
Hours	3 weekly
Courses	3 weekly
Number of positions	

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

30% Written exam

10% Class participation

Resources

Bibliography

Reading bulkpack

Websites

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