



COURSE SYLLABUS

Supply Chain Design, 7.5 credits

Utformning av försörjningskedjor, 7,5 högskolepoäng

Course Code: TFKS22	Education Cycle: Second-cycle level
Confirmed by: Dean Mar 1, 2021	Disciplinary domain: Technology
Valid From: Aug 1, 2021	Subject group: IE1
Version: 1	Specialised in: A1F

Intended Learning Outcomes (ILO)

After a successful course, the student shall:

Knowledge and understanding

- demonstrate comprehension of the supply chain, its components and contribution to company goals
- demonstrate comprehension of the balance between efficiency requirements and the need for renewal
- demonstrate knowledge of performance measurement for supply chains including sustainability aspects

Skills and abilities

- demonstrate skills of evaluating strategic options for the supply chain
- demonstrate skills of operationalizing design options in the supply chain
- demonstrate the ability to evaluate the effect of coordination on supply chain performance

Judgement and approach

- demonstrate the ability to evaluate different design alternatives with respect to economic, social and ecological sustainability
- demonstrate the ability to evaluate the performance of a supply chain locally and globally

Contents

The course covers the design and management of supply chains and the impact on company structure and performance. It also covers the relations between in-house operations and the supply network.

The course includes:

- The relationship between the supply chain and the company strategy
- Drivers and processes in the supply chain and performance measurement
- Supply chain design; the relation between external and internal supply chains, sourcing and distribution
- The impact of globalization on the supply chain

- Supply chain coordination and performance
- Process technology: the impact developments in technology have on the effectiveness of operations
- Sustainability in supply chains (economic, social and ecological)

Type of instruction

Lectures, seminars, course work.

The teaching is conducted in English.

Prerequisites

Passed courses comprising at least 150 credits in the program and completed courses including Logistics, 7,5 credits, Industrial Production Systems, 7,5 credits and Industrial marketing and purchasing, 7,5 credits (or equivalent)

Examination and grades

The course is graded 5,4,3 or Fail.

The final grade of the course is decided by weighting the result of the tests and is issued only when all course units have been passed.

Registration of examination:

Name of the Test	Value	Grading
Examination	4 credits	5/4/3/U
Course Works	3.5 credits	5/4/3/U

Course literature

The literature list for the course will be provided 8 weeks before the course starts.