JÖNKÖPING UNIVERSITY
School of Engineering

COURSE SYLLABUS
IT in Supply Chains, 7.5 credits

IT i försörjningskedjor, 7,5 högskolepoäng

Course Code:	TSCN11	**Education Cycle:**	First-cycle level
Confirmed by:	Dean Mar 1, 2021	**Disciplinary domain:**	Technology
Revised by:	Director of Education Jun 28, 2022	**Subject group:**	TE9
Valid From:	Aug 1, 2022	**Specialised in:**	G2F
Version:	3	**Main field of study:**	Industrial Engineering and Management

Intended Learning Outcomes (ILO)

After a successful course, the student shall

Knowledge and understanding
- Demonstrate comprehension of concepts in the context of IT-enabled supply chain management such as Business and IT-alignment, Enterprise architecture, Enterprise modeling, Business process management, and digitalization
- Demonstrate comprehension of the concept of enterprise systems (ES) and how they can support supply chain management and display knowledge about contemporary ES platforms

Skills and abilities
- Demonstrate ability to, through modeling, describe and represent an enterprise from a supply chain management perspective
- Demonstrate ability to, through modeling, describe and represent supply chain taking into account both business and technology dimensions
- Demonstrate an understanding of modelling and visualizing various aspects of an enterprise using modern standards and tools
- Demonstrate ability to implement basic supply chain management processes in ES
- Demonstrate ability to use approaches for ES implementation

Judgement and approach
- Demonstrate ability to identify and describe how IT can enable supply chain management

Contents

The course provides knowledge and skills of applying a holistic perspective on IT-enabled changes supply chain management. This will be done via modeling to capture, describe and structure different dimensions of an enterprise related to supply chain management also including business objectives, technology and humans. In order to achieve this the focal areas below will be elaborated on and applied in the course. This will be done both individually and in different combinations.

- Use and support of information systems
- Business and IT-alignment
- Enterprise architecture
- Enterprise modeling
- Business process management
- Digitalization and digital transformation
- Out of the box business support in a standard ES, implementation models and how to realize/implement business processes in ES

Type of instruction

The course consists of lectures, seminars, labs and assignments with tutoring.

The teaching is conducted in English.

Prerequisites

General entry requirements and completed courses 60 credits in first cycle within industrial engineering and management (or the equivalent).

Examination and grades

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

The final grade for the course is based on a balanced set of assessments. The final grade will only be issued after satisfactory completion of all assessments.

Registration of examination:

Name of the Test	Value	Grading
Written examination	3.5 credits	5/4/3/U
Project	3 credits	5/4/3/U
Group assignments and seminars	1 credit	U/G

Course literature

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

A list articles will be supplied at the course introduction.