



## COURSE SYLLABUS

# Design of Smart Enterprises, 7.5 credits

*Design av smarta företag, 7,5 högskolepoäng*

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<b>Course Code:</b>	TSF428	<b>Education Cycle:</b>	Second-cycle level
<b>Confirmed by:</b>	Dean Oct 12, 2017	<b>Disciplinary domain:</b>	Technology (95%) and social sciences (5%)
<b>Valid From:</b>	Jan 1, 2018	<b>Subject group:</b>	DT1
<b>Version:</b>	1	<b>Specialised in:</b>	A1N
<b>Reg number:</b>	JTH 2017/3948-313	<b>Main field of study:</b>	Informatics

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### Intended Learning Outcomes (ILO)

After a successful course, the student shall:

Knowledge and understanding

- demonstrate comprehension of the principle for enterprise design and enterprise architecture
- demonstrate comprehension of the concept of smart enterprises
- display knowledge of research trends in the areas relevant for smart enterprises in connection to future demands

Skills and abilities

- demonstrate the ability to describe an enterprise design and enterprise architecture taking into account business and technology dimensions
- demonstrate an understanding of modelling and visualizing various aspects of an enterprise using modern standards and tools

Judgement and approach

- demonstrate an understanding of how enterprise design and EA can enable smart enterprises

### Contents

The course provides knowledge and skills of applying a holistic perspective on enterprise design. This will be done via capturing, describing and structuring different dimensions of an enterprise such as business objectives, technology developments and human needs. The course will also address the process of conducting such type of development. The course will describe ways of dealing with opportunities and challenges connected to Industry 4.0. A framework for enterprise design will be introduced and used in the course.

### Type of instruction

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

The teaching is conducted in English.

### Prerequisites

Passed courses 180 credits in first cycle, at least 90 credits within the major subject in Informatics, Computer Science, Computer Engineering, Interaction Design (with relevant courses in web programming) or equivalent. Proof of English proficiency is required (or the equivalent).

### Examination and grades

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

The final grade for the course is based upon 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 credits	5/4/3/U
Assignments	4.5 credits	5/4/3/U

### Course literature

Literature

Title: Intersection: How Enterprise Design Bridges the Gap Between Business, Technology and People.

Author: Milan Guenther

Publisher: Morgan Kaufmann