



Course syllabus

Faculty of Technology

Department of Informatics

5IK505 Systemiskt perspektiv på digital transformation, 7,5
högskolepoäng

Systemic Perspectives on Digital Transformation, 7.5 credits

Main field of study

Informatics

Subject Group

Informatics/Computer and Systems Sciences

Level of classification

Second Level

Progression

A1F

Date of Ratification

Approved by Faculty of Technology 2019-11-08

The course syllabus is valid from autumn semester 2020

Prerequisites

30 credits of completed courses in Informatics at advanced level or equivalent.

Objectives

Knowledge and understanding

after completing the course students should be able to:

- Demonstrate familiarity with the Systems Thinking concepts and models
- Identify and describe systems thinking approaches and methods that are useful for digital transformation of organizations and businesses.
- Identify and explain organisational and technological complexities of digital transformation

Skills and abilities

after completing the course students should be able to:

- Analyse strategic use of digital technologies for different types of organisations.
- Analyse and identify challenges, opportunities and practices associated with the formulation of organizational digital strategies.
- Design process models for planning, managing and leading organizational digital transformation.

Evaluation ability and attitude

after completing the course students should be able to:

- From a holistic perspective, critically analyse and reflect on the organizational

- from a nonsic perspective, critically analyse and reflect on the organizational, political and social dimensions of digital transformation.
- Reflect on ethical issues in relation design processes of digital transformation.

Content

The course focuses on the systemic interplay between organisational and IS strategies from one hand and the context in which such straggles emerge to create, deliver and capture value.

The course includes the following elements:

- systems thinking models and methods, including a holistic perspective of digital and organizational strategies
- Methods and techniques for analysing organisational structures and processes
- Project work

Type of Instruction

Teaching consists of live and recorded lectures, tutorials, supervised group work and seminars.

Examination

The course is assessed with the grades A, B, C, D, E, Fx or F.

The grade A constitutes the highest grade on the scale and the remaining grades follow in descending order where the grade E is the lowest grade on the scale that will result in a pass. The grade F means that the student's performance is assessed as fail (i.e. received the grade F).

Assessment of student performance is made through:

1. Written answers to provided questions. 1.5 credits
2. Rich picture: group assignment in which students investigate the context for a specific organization in detail and provide a rich picture. 3 credits
3. CATWOE and PQR analysis: individual analysis. 3 credits

To pass the course, grade E or higher is required for all parts. The final grade is decided from: Written answers to provided questions (20%), Rich picture: group assignment (40%) and CATWOE and PQR analysis: individual analysis (40%).

Förnyad examination ges i enlighet med Lokala regler för kurs och examination på grundnivå och avancerad nivå vid Linnéuniversitetet.

Om universitetet beslutat att en student har rätt till särskilt pedagogiskt stöd på grund av funktionsnedsättning, har examinator rätt att ge ett anpassat prov eller att studenten genomför provet på ett alternativt sätt.

Course Evaluation

During the course or in close connection to the course, a course evaluation is to be carried out. The result and analysis of the course evaluation are to be communicated to the students who have taken the course and to the students who are to participate in the course the next time it is offered. The course evaluation is carried out anonymously. The compiled report will be filed at the Faculty.

Other

Grade criteria for the A–F scale are communicated to the student through a special document. The student is to be informed about the grade criteria for the course by the start of the course at the latest.

Required Reading and Additional Study Material

Informatics Compendium and digital material, Linnaeus University, app. 300 pages