

## Co-creating Digital Solutions and Automation

Samskapande av digitala lösningar

7.5 credits

Programme course

726G33

Valid from: 2024 Autumn semester

<b>Determined by</b>	<b>Main field of study</b>	
Course and Programme Syllabus Board at the Faculty of Arts and Sciences	Information Systems	
<b>Date determined</b>	<b>Course level</b>	<b>Progressive specialisation</b>
2024-04-09	First cycle	G2F
<b>Revised by</b>	<b>Disciplinary domain</b>	
	Social sciences	
<b>Revision date</b>	<b>Subject group</b>	
	Informatics/Computer and Systems Sciences	
<b>Offered first time</b>	<b>Offered for the last time</b>	
Autumn semester 2024		
<b>Department</b>	<b>Replaced by</b>	
Institutionen för ekonomisk och industriell utveckling		

## Course offered for

- Master Programme in IT and Management
- Bachelor's programme in Information Systems Analysis

## Entry requirements

Grundläggande behörighet på grundnivå  
samt

Samhällskunskap 1b eller 1a1 och 1a2

samt

Matematik 2a/2b/2c eller Matematik B

and

at least 95 ECTS credits from year 1 and 2 on the Bachelor's programme in  
Information Systems Analysis

## Intended learning outcomes

On completion of the course, the student should be able to:

- identify and explain different perspectives on co-creation and responsible innovation
- apply co-creation as an approach to the design of digital solutions and automation
- apply concepts from Science and Technology Studies (STS) in the co-creation of digital solutions
- critically analyze the societal impact of digital solutions and automation
- assess the value of including external users in the design and testing of digital solutions and automation

## Course content

The course aims to introduce the student to theories and concepts from social sciences with a focus on Science and Technology Studies (STS), such as Actor Network Theory (ANT), Social Construction of Technology (SCoT), Agential Realism and Sociotechnical Imaginaries (STIs). The course covers how these can be used for co-creation and in the design and testing of digital solutions and automation. The course also covers the effects of digital technologies and automation on a societal level with a focus on responsible innovation.

## Teaching and working methods

The teaching consists of lectures, workshops, seminars, supervision and project work. In addition, the student should conduct self-study.

Teaching and examination language: English

## Examination

The course is examined through:

- individual written essay, grading scale: UV
- written group project, grading scale: UG
- active participation in seminars: UG
- active participation in workshops: UG

For a final grade of G (Pass), at least G (Pass) is required in all examinations.

For a final grade of VG (Pass with distinction), in addition to the requirements for G, a grade of VG is required in the individually written essay.

Detailed information can be found in the study guide.

If special circumstances prevail, and if it is possible with consideration of the nature of the compulsory component, the examiner may decide to replace the compulsory component with another equivalent component.

If the LiU coordinator for students with disabilities has granted a student the right to an adapted examination for a written examination in an examination hall, the student has the right to it.

If the coordinator has recommended for the student an adapted examination or alternative form of examination, the examiner may grant this if the examiner assesses that it is possible, based on consideration of the course objectives.

An examiner may also decide that an adapted examination or alternative form of examination if the examiner assessed that special circumstances prevail, and the examiner assesses that it is possible while maintaining the objectives of the course.

Students failing an exam covering either the entire course or part of the course twice are entitled to have a new examiner appointed for the reexamination.

Students who have passed an examination may not retake it in order to improve their grades.

## Grades

Three-grade scale, U, G, VG

## Other information

Planning and implementation of a course must take its starting point in the wording of the syllabus. The course evaluation included in each course must therefore take up the question how well the course agrees with the syllabus.

The course is conducted in such a way that there are equal opportunities with regard to sex, transgender identity or expression, ethnicity, religion or other belief, disability, sexual orientation and age.

If special circumstances prevail, the vice-chancellor may in a special decision specify the preconditions for temporary deviations from this course syllabus, and delegate the right to take such decisions.