

SYLLABUS

Design science 7.5 credits

D7018A

Designvetenskap

Course syllabus admitted: Autumn 2023 Sp 1 - Present

DECISION DATE
2022-02-11

Design science 7.5 credits D7018A

Designvetenskap

Second cycle, D7018A

Education level	Grade scale	Subject	Subject group (SCB)
Second cycle	U G VG *	Industriell design	Other Subjects within Technology

Entry requirements

Completed courses of at least 120 credits in the subject area industrial design engineering, with at least the grade Pass.

Selection

The selection is based on 30-285 credits

Course Aim

The aim of the course is to develop the student's competence to identify, apply, analyze and synthesize design studies, methodology and theory, thus contributing to the development of knowledge in the area of technical design.

The aim is that the student should:

- Demonstrate broad knowledge of Design science
- Demonstrate in-depth knowledge in one area within Design science
- Show ability to analyze, apply and describe design methodology
- Show ability to critically review and relate to user, corporate and social perspectives
- Show the ability to communicate verbally, in writing and visually

Contents

The course deals with the foundation and methodology within design science, current research and development work within the area, as well as visual, oral and written communication within the field of industrial design engineering.

Realization

Each course occasion's language and form is stated and appear on the course page on Luleå University of Technology's website.

The course is largely conducted as independent work, both individually and in collaboration with others. Seminars and exercises aim to provide an in-depth understanding of design science and design methodology. The course's tasks include: 1) Crash course in design research, an exercise in reading, analyzing and describing design science; 2) Design Research Methods, an exercise in identifying, analyzing, describing and synthesizing the use of design methodology, as well as 3) Design Theory Immersion, an exercise in identifying, deepening, describing, analyzing, synthesizing and communicating knowledge in the field of industrial design engineering. Seminars are conducted for formative feedback, ie. feedback where the student has opportunity to develop their work based on comments before final submission, as well as critical review of own and others' texts.

Examination

If there is a decision on special educational support, in accordance with the Guideline Student's rights and obligations at Luleå University of Technology, an adapted or alternative form of examination can be provided.

A1 Crash course in design research (group) 1.5 hp U G

A2 Design research methods (group) 2 hp U G

A3 Design theory immersion (individual) 4 hp U G VG

Unauthorized aids during exams and assessments

If a student, by using unauthorized aids, tries to mislead during an exam or when a study performance is to be assessed, disciplinary measures may be taken. The term "unauthorized aids" refers to aids that the teacher has not previously specified as permissible aids and that may assist in solving the examination task. This means that all aids not specified as permissible are prohibited. The Swedish version has interpretative precedence in the event of a conflict.

Remarks

Students must register for the courses themselves, or contact ETKS educational administration eduetks@ltu.se, not later than three days after the quarter commences. Failure to do so can result in the place being lost. This rule also applies to students with a guaranteed place.

Due to similar content, the course can not be included in a degree together with the course D7016A or other courses with similar content.

Overlap

The course D7018A is equal to D7016A

Course offered by

Department of Social Sciences, Technology and Arts

Modules

Code	Description	Grade scale	Cr	Status	From period	Title
0001	A1 Crash course in design research	U G#	1.5	Mandatory	A18	
0002	A2 Design research methods	U G#	2	Mandatory	A18	
0003	A3 Design theory immersion	U G VG *	4	Mandatory	A18	

Study guidance

Study guidance for the course is to be found in our learning platform Canvas before the course starts. Students applying for single subject courses get more information in the Welcome letter. You will find the learning platform via My LTU.

Last revised

by Director of Undergraduate Studies Daniel Örtqvist, Department of Social Sciences, Technology and Arts 2022-02-11

Syllabus established

by Director of Undergraduate Studies Daniel Örtqvist, Department of Business Administration, Technology and Social Sciences 2018-02-15