

SYLLABUS

Design: theory and practice 15 credits D0037A

Design: teori och praktik

Course syllabus admitted: Autumn 2023 Sp 1 - Present

**DECISION DATE
2022-06-14**

Design: theory and practice 15 credits D0037A

Design: teori och praktik

First cycle, D0037A

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

Main field of study

Industrial Design Engineering

Entry requirements

In order to meet the general entry requirements for first cycle studies you must have successfully completed upper secondary education and documented skills in English language and completed courses of at least 15 credits in the subject area Industrial design engineering, with at least the grade Pass, for example: Design: process and method (D0030A) 15 credits or Ergonomics 1 (A0015A) 7,5 credits and Industrial Production Environment (A0011A) 7,5, credits or equivalent knowledge.

Selection

The selection is based on 1-165 credits.

Course Aim

The overall objective of this course is to develop course participant's ability to integrate design theory with practical design work. The course participant is expected to have developed his or hers understanding of industrial design engineering and his or hers ability to use design methods and design techniques both in individual assignments and in a practice based project in groups. The course participant is expected to demonstrate ability to apply knowledge in the planning and conducting of exercises and tasks both individually and in cooperation with others, and take responsibility for visually, verbally and in writing communicate knowledge and abilities.

The course participant should:

1. Demonstrate basic knowledge of industrial design engineering
2. Demonstrate basic skills in collaborating in, planning of, and managing and implementing projects
3. Demonstrate basic skills in creating and developing user-centred solutions
4. Demonstrate basic problem-solving skills
5. Demonstrate basic skills in academic conduct
6. Demonstrate basic skills in communicating the design process and its results in writing, orally and visually
7. Demonstrate basic ability in acting professionally
8. Demonstrate basic ability of individual development with support of feedback
9. Demonstrate an understanding of norm-critical perspectives with regard to products, services and systems
10. Demonstrate ability to implement norm-critical and norm-creative perspectives in a design project
11. Show the ability to apply and reflect on this knowledge in design projects.

Contents

The course consists of design theory and its practical application in product design. The course contains of design history, form, colour, aesthetics, product semiotics, and user experience. The course participant should also get insight in relevant design research and a norm critical approach. The course contains a project assignment where the course participant practices his or hers ability to carry through a project with practical implementation of knowledge by the use of prototypes, mock-ups, and models in a relevant design process.

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 consists of lectures, tasks, and assignments to be carried out both individually and in groups. A large part of the course is carried out in the form of independent work, both individually and in collaboration with others. The course is based on learning-by-doing where the course participant practices and implements skills in order to develop his or hers independent skills within industrial design engineering. The course contains a project where project teams design concepts solutions and present them by using oral communication, visual communication by using models, and in written form in an individual workbook.

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.

Aim 1 is examined by the course tasks and assignments related to different aspects of design theory

Aim 2, 3, 4, 6 & 7 is examined by a workbook based on a project

Aim 5 is examined by the course assignments and labs as well as the parts of the workbook that deals with theory

Aim 6 is examined by assignments and as well as the parts of the workbook that deals with process and results

Aim 8 is examined by the parts of the workbook dealing with the course participant's reflections

Detailed descriptions of assignments as well as criteria for grades are available in the study guide for the course.

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

The course participants must register themselves, or contact ETKS educational administration eduetks@ltu.se, during the first three days of the term, to not lose their place in the course. This also applies to students with guaranteed place.

Due to similar content, the course can not be included in a degree together with the courses D0039A, D0003A and D0019A or other courses with similar content.

Transition terms

The course is equivalent D0003A Model Building and presentation technique 7,5hp and D0019A Design Theory 7,5hp

Course offered by

Department of Social Sciences, Technology and Arts

Modules

Code	Description	Grade scale	Cr	Status	From period	Title
0005	Exercises and laboratory work	U G#	5	Mandatory	A17	
0006	Workbook part 1	U G VG *	2.5	Mandatory	A17	
0007	Assignment reports	U G#	2.5	Mandatory	A17	
0008	Workbook part 2	U G VG *	5	Mandatory	A17	

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 2022-06-14

Syllabus established

by Director of Undergraduate Studies Bo Jonsson, Department of Business Administration, Technology and Social Sciences 2016-02-15