

**SYLLABUS**

# **Product-and Manufacturing Design 7.5 credits A0013A**

**Produkt- och produktionsdesign**

**Course syllabus admitted: Autumn 2023 Sp 1 - Present**

DECISION DATE  
**2021-02-17**

# Product-and Manufacturing Design 7.5 credits A0013A

## Produkt- och produktionsdesign

### First cycle, A0013A

Education level	Grade scale	Subject	Subject group (SCB)
First cycle	G U 3 4 5	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 60 credits in the subject area Industrial design with at least the grade Pass. This must include the following courses; Design: process and method (D0030A) 15 credits, Ergonomics 1 (A0015A) 7,5 credits, Industrial Production Environment (A0011A) 7,5 credits, Industrial Management with a Sustainability Perspective (G0010N) 7,5 credits, or equivalent knowledge.

## Selection

The selection is based on 1-165 credits.

## Course Aim

The course aims to give students the opportunity to:

- Demonstrate the ability to critically analyze product and production design from a social, ecological and economic sustainability perspective.
- Demonstrate the ability to critically analyze and motivate how design and material choices affect product and production design.
- Demonstrate the ability to apply knowledge about project planning, explore context, create ideas and prototype product and production design in an applied project.

## Contents

The course focuses on the interaction between product and production design, the materials and design affects production methods. The course teaches an approach where market research, product development and manufacturing is done in parallel.

The course is a project course in which students on the basis of a mission statement to develop / improve a product from a user perspective, in terms of design, ergonomics and manufacturing.

## Realization

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

Project work in groups where students are expected to plan their own time and work in a project that will focus on development / improvement of a product from the mission statement. During the course students are expected to contact the appropriate companies to acquire the necessary knowledge to the project.

## 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. To pass the course on the course the project work with written reports and oral presentations been successfully performed. Attendance is mandatory for interim and final reports. Project work is done in groups.

Grade scale: Fail, 3, 4, 5

## 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](mailto: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.

## Course offered by

Department of Social Sciences, Technology and Arts

## Modules

Code	Description	Grade scale	Cr	Status	From period	Title
0003	Project work	G U 3 4 5	7.5	Mandatory	A12	

## 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 2021-02-17

## Syllabus established

by Stig Karlsson 2012-03-06