Advanced Product Design 15 credits D7006A

Avancerad produktdesign

Course syllabus admitted: Autumn 2023 Sp 1 - Present

DECISION DATE
2022-02-11

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Advanced Product Design 15 credits D7006A

Avancerad produktdesign

Second cycle, D7006A

Education level	Grade scale	Subject	Subject group (SCB)
Second cycle	G U 3 4 5	Industriell design	Other Subjects within Technology

Entry requirements

Completed courses of at least 120 credits, with at least the grade Pass. This must include the following courses: Designing (D7007A) 7,5 credits and Interaction design (D7015A) 7,5 credits, or equivalent knowledge.

Selection

The selection is based on 30-285 credits

Course Aim

After the course, the student will have enhanced knowledge in the field of product development. The student will develop competence for formulating, planning and carry through a development project in collaboration with an external manufacturing company, in theory and practice with relevant information and useful methods recieve deepened skills for product development. The student will also learn how to manage a product development project in cooperation with companies from the industry. Show in-depth knowledge of inclusive design.
Demonstrate ability to identify a diversity of user needs and experiences in visual communication, symbols, design and interaction between humans and products, and ability to apply this in an advanced product design project. Demonstrate the ability to critically reflect on norm-creative and inclusive design in relation to the project's results and users.

Contents

Project planning: Selecting assignment, setting up the project. Gathering information: Different ways to get the right information. Needfinding: Identifying needs, analyzing market trends. Define the problem: Formulate the problem, defining problem level Problem investigation: Area analysis, function listing, function analysis, weighing of criteria. Primary design: Concept development, selection of concept. Design: Final design, component selection, material selection, visualization. Documentation: Produce a presentation of the work process and final result, write a project report, 3D CAD-model, oral presentation

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 classes where theory regarding the product development process is discussed. Parallel to that a project is carried out in cooperation with companies from the industry. Mandatory presence at classes and presentations.

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. Approved result on project assignment, approved documentation and approved oral presentation.

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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.

Overlap

The course D7006A is equal to D7002A

Course offered by

Department of Social Sciences, Technology and Arts

Modules

Code	Description	Grade scale	Cr	Status	From period	Title
0001	Approved project result,written report/ approved project pre	G U 3 4 5	15	Mandatory	S09	

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

Teh syllabus has been established by the Department of Human Work Sciences 2007-12-05

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