

SYLLABUS

Product Development Processes 7.5 credits M7014T

Produktutvecklingsprocesser

Course syllabus admitted: Autumn 2023 Sp 1 - Present

**DECISION DATE
2023-02-15**

Product Development Processes 7.5 credits M7014T

Produktutvecklingsprocesser

Second cycle, M7014T

Education level
Second cycle

Grade scale
U G VG *

Subject
Produktinnovation

Subject group (SCB)
Mechanical Engineering

Entry requirements

BSc degree or completed courses of at least 120 credits, with a specialization in a technical subject area, with at least the grade Pass. Good knowledge in English, equivalent to English 6.

Selection

The selection is based on 30-285 credits

Course Aim

The overall purpose of the course is an increased understanding of product development processes and their application. The goal is for the student to increase the understanding for how development processes relate to the activities and roles of the actors and how a process can support integrated and cross-functional product development, and to increase their insight into how these processes relate to the innovation and business strategies or organisations.

Contents

The course clarifies how product development processes are initiated both from technical requirements and human needs. The focus is on strategies and methods to connect these aspects in early product development phases. Central themes, such as needfinding, market intelligence, creative and innovative methods, brand- and business strategies, are introduced in lectures and discussion seminars. Students reflect on, explain, and reason about the central themes of the course both individually and in groups.

Realization

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

The education takes the form of scheduled lectures and discussion seminars. We also invite guest lectures from industry to offer a reality related perspective on the theoretical contents of the course.

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. Grading is based on hand-ins. The students are requested to hand in three individual and two group assignment reports. To obtain the grade G, the student must show an ability to describe and apply the central methods of the course. To obtain the grade VG, the student must show an ability to describe, apply, reflect on and suggest adaptations to the central methods of the course. Oral presentations are included as part of the examination.

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. Canvas will be used for course communication as well as deliverables

Course offered by

Department of Social Sciences, Technology and Arts

Modules

Code	Description	Grade scale	Cr	Status	From period	Title
0007	Individual work	U G VG *	2.5	Mandatory	A15	
0008	Group work	U G VG *	4	Mandatory	A15	
0009	Individual work: personal reflection	U G VG *	1	Mandatory	A15	

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 Business Administration, Technology and Social Sciences 2023-02-15

Syllabus established

The syllabus was established by the Department of Applied Physics and Mechanical Engineering 2007-02-28, and remains valid from autumn 2007.