



Course syllabus

Produktutveckling Product Development

MMKA20, 4 credits, G1 (First Cycle)

Valid for: 2023/24

Faculty: Faculty of Engineering, LTH

Decided by: PLED M

Date of Decision: 2023-04-11

General Information

Main field: Industrial Design.

Compulsory for: KID2

Language of instruction: The course will be given in English

Aim

The course provides the student with tools to facilitate communication and collaboration with different categories of members in a product development team such as mechanical engineers, electrical engineers, marketing specialists, manufacturing experts, etc. The course provides basic knowledge of strategies, terminology and methods utilized in product development and how advanced techniques are utilized in creating rapid prototyping. The course should also provide basic understanding in the form of procedures, methods and techniques utilized in systematic development work.

Learning outcomes

Knowledge and understanding

For a passing grade the student must

- given the mission project statement, structure, plan and carry through some parts of the conceptual development phase within the product development process.
- be able to communicate the results from a development / design project orally and in writing.

Competences and skills

For a passing grade the student must

- in the form of a team work, be able to carry through that part of the product development project focusing on some parts in the conceptual development phase.
- have obtained such insights into methods, techniques and terminology, that the student is able to communicate his/her results.

Contents

The course objective is set on product development, with focus on the conceptual development phase. After introducing the theory on product development, a product development project is carried out. Focus in this project is set on the conceptual development phase. The project work is presented in a common report and presented orally by all the group members

Examination details

Grading scale: TH - (U,3,4,5) - (Fail, Three, Four, Five)

Assessment: The course includes a compulsory industrial project, which is carried out in groups of 4-6 students. The project work is graded with the TH scale (Fail, 3, 4 or 5). The project grade corresponds to the final grade of the course.

The examiner, in consultation with Disability Support Services, may deviate from the regular form of examination in order to provide a permanently disabled student with a form of examination equivalent to that of a student without a disability.

Admission

The number of participants is limited to: No

The course overlaps following course/s: MMKA01

Reading list

- Ulrich, K. & Eppinger, S.: Product Design and Development. McGraw-Hill International Edition, 2012, ISBN: 978-007-108695-0. 5th edition. Alternatively 4th edition (2008), 6th edition (2015) or 7th edition (2020). The 5th edition is available as an e-book at the UK McGrawHill homepage only: <http://www.mheducation.co.uk/> (<http://www.mheducation.co.uk/9780077143961-emea-ebook-product-design-and-development>).

Contact and other information

Course coordinator: Damien Motte, damien.motte@design.lth.se

Director of studies: Elin Olander, elin.olander@design.lth.se

Course homepage: <http://www.product.lth.se/education/>