



COURSE SYLLABUS **Innovation Project, 7.5 credits**

Innovation Project, 7,5 högskolepoäng

Course Code: HIPR21	Education Cycle: Second-cycle level
Confirmed by: Utbildningsrådet Nov 17, 2020	Disciplinary domain: Technology
Revised by: Utbildningsrådet May 14, 2024	Subject group: MA2
Valid From: Jan 20, 2025	Specialised in: A1N
Version: 2	Main field of study: Product Development

Intended Learning Outcomes (ILO)

Upon completion of the course the student should have the ability to:

Knowledge and understanding

- demonstrate basic knowledge of legislation on intellectual property rights
- demonstrate comprehension of methods to evaluate conceptual designs
- demonstrate knowledge of different design methods.

Skills and abilities

- create requirement specifications for new products
- critically evaluate conceptual designs
- demonstrate enhanced creativity and innovation in design.

Judgement and approach

- demonstrate an understanding of how to conduct an innovation project towards a desired goal.

Contents

The course includes the following elements:

- requirements specification
- innovation support
- creative thinking
- Intellectual property rights (IPR)
- innovation project management
- conceptual design evaluation
- innovation projects in assistive technologies

Type of instruction

The course is implemented through lectures, case studies, written assignments and group tutorials.

The teaching is conducted in English.

Prerequisites

The applicant must hold a minimum of a Bachelor degree or equivalent (i.e. the equivalent of 180 ECTS credits at an accredited university) in prosthetics and orthotics or mechanical engineering. Proof of English proficiency is required.

Examination and grades

The course is graded A, B, C, D, E, FX or F.

Examination of the course will be based upon one individual written assignment including group seminars and submission of personal reflection assignments. Examination elements include workshops and laboratory sessions which will only be provided once per group of students during the course, due to the complexity and one-off nature, and required sequence of this content.

A university senior lecturer serves as examiner for the course.

Registration of examination:

Name of the Test	Value	Grading
Assignment	7.5 credits	A/B/C/D/E/FX/F

Course literature

Ulrich, K. T., Eppinger, S. D., & Yang, M. C. (2020). *Product design and development* (Seventh edition (international student edition)). McGraw-Hill Education.