



## KURSPLAN

# Innovation Project, 7,5 högskolepoäng

*Innovation Project, 7.5 credits*

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<b>Kurskod:</b>	HIPR21	<b>Utbildningsnivå:</b>	Avancerad nivå
<b>Fastställt av:</b>	Utbildningsrådet 2020-11-17	<b>Utbildningsområde:</b>	Tekniska området
<b>Gäller fr.o.m.:</b>	2021-05-10	<b>Ämnesgrupp:</b>	MA2
<b>Version:</b>	1	<b>Fördjupning:</b>	A1N
<b>Diarienummer:</b>	Department of Rehabilitation	<b>Huvudområde:</b>	Produktutveckling

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### Lärandemål

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

#### Kunskap och förståelse

- display basic knowledge of legislation on intellectual property rights
- demonstrate comprehension of methods to evaluate conceptual designs
- show familiarity with set-based design.

#### Färdighet och förmåga

- create requirement specifications for new products
- understand and evaluate conceptual designs
- demonstrate skills for enhancing creativity design.

#### Värderingsförmåga och förhållningssätt

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

### Innehåll

In this course, innovation and the early phases of design are addressed. The course involves how to set the requirement for new product development (NPD) and how to support and enhance creative thinking to create product concepts that corresponds to the requirements. The course includes how to make early stage evaluation of conceptual design and how to take decisions on what conceptual design to bring forward to further elaboration. The course will also include Intellectual property rights (IPR) and the legislation around patents. In the course students will engage in innovation projects in assistive technologies.

Examples of course content:

- requirements specification
- innovation support
- creative thinking
- IPR
- innovation project management
- conceptual design evaluation

## Undervisningsformer

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

Undervisningen bedrivs på engelska.

## Förkunskapskrav

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 och betyg

Kursen bedöms med betygen A, B, C, D, E, FX eller F.

Examination of the course will be based upon one individual written assignment, group seminars and submission of personal reflection assignments.

A university senior lecturer serves as examiner for the course.

Poängregistrering av examinationen för kursen sker enligt följande system:

Examinationsmoment	Omfattning	Betyg
Individual written assignment	5,5 hp	A/B/C/D/E/FX/F
Seminars and reflection assignments	2 hp	U/G

## Kurslitteratur

Myrup Andreasen, M., Thorp Hansen, C., & Cash, P. (2015). *Conceptual Design: Interpretations, Mindset and Models*. Springer.