



## COURSE SYLLABUS **Innovation Project, 7.5 credits**

*Innovation Project, 7,5 högskolepoäng*

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<b>Course Code:</b> HIPR21	<b>Education Cycle:</b> Second-cycle level
<b>Confirmed by:</b> Utbildningsrådet Nov 17, 2020	<b>Disciplinary domain:</b> Technology
<b>Valid From:</b> May 10, 2021	<b>Subject group:</b> MA2
<b>Version:</b> 1	<b>Specialised in:</b> A1N
<b>Reg number:</b> Department of Rehabilitation	<b>Main field of study:</b> Product Development

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### **Intended Learning Outcomes (ILO)**

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

Knowledge and understanding

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

Skills and abilities

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

Judgement and approach

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

### **Contents**

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

### **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, group seminars and submission of personal reflection assignments.

A university senior lecturer serves as examiner for the course.

Registration of examination:

<b>Name of the Test</b>	<b>Value</b>	<b>Grading</b>
Individual written assignment	5.5 credits	A/B/C/D/E/FX/F
Seminars and reflection assignments	2 credits	U/G

### **Course literature**

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