



## COURSE SYLLABUS

### Master Thesis, 30 credits

*Master Thesis, 30 högskolepoäng*

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<b>Course Code:</b> HMTV22	<b>Education Cycle:</b> Second-cycle level
<b>Confirmed by:</b> Utbildningsrådet Nov 9, 2021	<b>Disciplinary domain:</b> Technology
<b>Valid From:</b> Jan 24, 2022	<b>Subject group:</b> TE9
<b>Version:</b> 1	<b>Specialised in:</b> A2E
<b>Reg number:</b> Avdelning för Rehabilitering	<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:

#### Skills and abilities

- critically evaluate research relevant to a defined topic within the main field of study
- integrate theoretical knowledge and demonstrate deeper methodological understanding in the main field of study
- discuss and debate how ethical principles affect research processes
- analyse complex phenomena, issues, and situations, even when limited information is available
- critically, independently, and creatively formulate issues pertaining to the work at hand
- initiate and independently conduct a research or design project within the main field of study, using appropriate scientific methods
- relate one's own research to current research within the field
- effectively communicate and defend project results in both oral and written formats.

#### Judgement and approach

- critically evaluate one's own work and identify areas requiring improvement or development
- apply knowledge and skills acquired during the programme and identify the need of further knowledge
- critically evaluate scientific strengths and weaknesses of their own and other projects
- reflect on the results of research from the perspective of the end user of the product/s.

### Contents

- project planning
- searching scientific literature
- collect, process and analyse data
- development work (if applicable)
- writing a scientific thesis
- oral presentation and opposition

### Type of instruction

The final project work is performed and reported within the main field of study individually. A supervisor and an examiner will be appointed to each project.

The teaching is conducted in English.

### Prerequisites

The student must hold a minimum of a Bachelor degree (equivalent of 180 ECTS credits at an accredited university) in Prosthetics and Orthotics or Mechanical Engineering or equivalent. The students must also have successfully completed all courses in the first year of study. Participation in Research methods and evidence-based practice (7,5hp).

### 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 thesis as well as an oral presentation defence of this work. Furthermore the students must also conduct an oral opposition to an other student project.

An associate professor will serve as examiner for the course.

Registration of examination:

Name of the Test	Value	Grading
Individual written thesis	28 credits	A/B/C/D/E/FX/F
Oral presentation	1 credit	U/G
Oral opposition	1 credit	U/G

### Course literature

Creswell, J.W. (2018). *Research design: Qualitative, quantitative, and mixed methods approaches*. SAGE Publications Inc.

Evans, D., Gruba, P., & Zobel, J. (2011). *How to write a better thesis*. Melbourne Univ. Publishing.

Gruba, P., & Zobel, J. (2017). *How to write your first thesis*. Springer.

Relevant literature related to the topic selected by each student will be identified together with individual supervisors.