

Course Syllabus

Thesis for master's degree (one year) in materials engineering 15 Credits*, Second Cycle Level 2

Learning Outcomes

The aim of the thesis is that the student should be able to apply advanced knowledge in the field of material technology by performing a research or industrial work. More specifically, the student should be able to:

- independently planning and carrying out a project in a scientific way
- document this work in a systematic way in a report
- demonstrate knowledge and understanding in materials technology, including both an overview of the area and in-depth knowledge in certain parts of the field as well as insight into current research and development work
- identify their need for further knowledge and take responsibility for their knowledge development
- present and defend your own work and oppose the work of others orally and in writing

Course Content

The course comprises an independent project, based on knowledge acquired in the courses of the programme as well as literature studies. Relevant existing knowledge is reviewed and on the basis of the problem set, relevant experimental methodology is chosen. A theoretical analysis is performed and the results obtained are discussed and own conclusions are drawn. Usually, the work is performed at a company or in a higher education institution. The project is documented in the form of a technical report in which the student presents scientifically based analyses and conclusions.

Assessment

A written report and an oral presentation at a seminar.

Forms of Study

Project work, tutorial and seminar.

Grades

The Swedish grades U, 3, 4, 5.

Prerequisites

30 credits at second level, of which at least 15 credits in Materials Technology

Subject:

Materials Technology

Group of Subjects:

Materials Technology

Disciplinary Domain:

Technology, 100%

This course can be included in the following main field(s) of study:

1. Materials Technology

Progression Indicator within (each) main field of study:

1. A1E

Approved:

Approved 15 February 2018

Valid from 8 May 2018