

SYLLABUS

Degree project in Material Engineering, specialization Metallurgy, Bachelor of Science in Engineering 15 credits Q0054B

Examensarbete i Materialteknik, inriktning Metallurgi, högskoleingenjör

Course syllabus admitted: Spring 2017 Sp 3 - Present

DECISION DATE

2016-01-14

Degree project in Material Engineering, specialization Metallurgy, Bachelor of Science in Engineering 15 credits Q0054B

Examensarbete i Materialteknik, inriktning Metallurgi, högskoleingenjör

First cycle, Q0054B

Education level	Grade scale	Subject	Subject group (SCB)
First cycle	U G#	Materialteknik	Materials Technology

Entry requirements

In order to meet the general entry requirements for first cycle studies you must have successfully completed upper secondary education and documented skills in English language and At least 135 credits from completed courses required for the degree of which at most 15 credits may be remaining from base and core courses. The examiner appointed decides if the student has the depth of knowledge required for the proposed degree project.

Selection

The selection is based on 1-165 credits.

Examiner

Individual examiner appointed.

Course Aim

Course Aim

The overall goal of the course is that the student practices, develops and is able to apply theory and methods to solve problems in a scientific manner that are relevant to work as a Bachelor of Science in Engineering in Material Engineering within the area of Metallurgy.

This means that on completion of the course the student is able to:

- Formulate a relevant problem for investigation from a chosen subject within the subject area of Material Engineering.
- Apply knowledge and proficiency that has been acquired during the period of study to an investigation, development or smaller research project in an independent and systematic manner.
- Choose and justify the study methods for an investigation.
- Analyse and defend the problem formulated in a correct manner with respect to engineering.
- Locate and critically review information and summarise this in a manner appropriate to engineering.
- Plan, structure and execute an investigation or development project.
- Judge the relevance of the results obtained.
- Work to a timetable.
- Express themselves well in writing in a linguistically and scientifically correct manner.
- Create and execute a presentation of the results of the project, defending the conclusions.
- Critically review the work of others in a constructive manner.

Contents

The content of the degree project is designed in collaboration with the supervisor. The degree project always contains a theoretical foundation in the form of a literature survey that highlights the area of technology and the methodology, summarised in a scientific manner.

Realization

Each course occasion's language and form is stated and appear on the course page on Luleå University of Technology's website.

The student independently plans and executes the degree project; the supervisor is available for assistance. A timetable for the entire project is included in the degree project, which is continuously reviewed.

Examination

Examination

If there is a decision on special educational support, in accordance with the Guideline Student's rights and obligations at Luleå University of Technology, an adapted or alternative form of examination can be provided.

– Written presentation of individual work.

In the report the student shows the ability to:

- o Justify the chosen problem of study
- o Select and justify the study methods
- o Collect information relevant to the problem formulation with an explicit connection to the chosen theory/methods

- o Present the information collected in writing in a relevant manner
- o Analyse and defend the formulated problem from the chosen theory and methods
- o Critically review the relevance of the results obtained from a scientific and engineering point of view
- o Express themselves in writing in a correct linguistic and scientific manner.
- Oral presentation of own work
- Public discussion of the work of others
- Attendance at presentations of the degree project work of others.

Remarks

The department provides active supervision for a period of one term from the start of the project.

The degree project is performed individually; only in exceptional cases may at most two students carry out the degree project together.

In cases in which the degree project is carried out by two students, this shall be clearly visible in the scope and depth of the report.

Literature. Valid from Spring 2017 Sp 3

Not set, depends on the project

Course offered by

Department of Civil, Environmental and Natural Resources Engineering

Items/credits

No items/credits available

Study guidance

Study guidance for the course is to be found in our learning platform Canvas before the course starts. Students applying for single subject courses get more information in the Welcome letter. You will find the learning platform via My LTU.

Syllabus established

by Eva Gunneriusson 2016-01-14