



MG1012 Non-Destructive Testing 3.0 credits

Oförstörande provning

This is a translation of the Swedish, legally binding, course syllabus.

Establishment

Course syllabus for MG1012 valid from Spring 2020

Grading scale

P, F

Education cycle

First cycle

Main field of study

Mechanical Engineering, Technology

Specific prerequisites

General entry requirements and a minimum of 120 credits in technology.

Language of instruction

The language of instruction is specified in the course offering information in the course catalogue.

Intended learning outcomes

After completing the course with a passing grade the student should be able to:

- account for and understand the application of common methods for non-destructive testing (NDT) of welded joint
- describe which types of defects that can be detected with different NDT methods
- suggest an appropriate NDT method or combination of NDT methods for quality assurance

Course contents

Non-destructive testing is a course that mainly gives you theoretical, but also certain practical knowledge of this field. The course is carried out in close cooperation with the industry, which gives a foundation in reality. Labs in NDT.

Course literature

Kompedium "Oförstörande provning", KTH.

Nondestructive testing of welds, Raj Subramanian Jayakumar.

Studenten väljer själv vilken av ovanstående litteratur han/hon vill använda.

Examination

- LAB1 - Laboratory work, 0.5 credits, grading scale: P, F
- TEN2 - Written exam, 2.5 credits, grading scale: A, B, C, D, E, FX, F
- DEL1 - Participation, 0.0 credits, grading scale: P, F

Based on recommendation from KTH's coordinator for disabilities, the examiner will decide how to adapt an examination for students with documented disability.

The examiner may apply another examination format when re-examining individual students.

If the course is discontinued, students may request to be examined during the following two academic years.

Ethical approach

- All members of a group are responsible for the group's work.
- In any assessment, every student shall honestly disclose any help received and sources used.
- In an oral assessment, every student shall be able to present and answer questions about the entire assignment and solution.