



MG2037 Industrial Adhesive Bonding 6.0 credits

Industriell limningsteknik

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

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

Establishment

Course syllabus for MG2037 valid from Autumn 2019

Grading scale

A, B, C, D, E, FX, F

Education cycle

Second cycle

Main field of study

Language of instruction

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

Intended learning outcomes

After passing the course, the student will be able to:

- account for different types of adhesive joints and their function and characteristics

- apply theory of adhesive bonding to select a proper adhesive for a given problem and estimate the cost
- describe the adhesive bonding process from preparation to verification and quality assurance
- account for health and safety legislation related to industrial adhesive bonding and apply it for a given case
- motivate the choice of adhesive joints for simple industrial applications

Course contents

- Survey of adhesives and different adhesive bonding solutions
- Selection of adhesives for different materials and applications
- Practical bonding theory (treatment of bonding surfaces, dosage, blending, application of bonds, joint formation and strength)
- Estimation of bonding costs
- Quality assurance
- Work hygiene, risks and protection
- Work environment legislation

Specific prerequisites

180 credits within Engineering and Swedish B/Swedish 3 and English A/English 6

plus

MG1016/MG1026 Manufacturing Technology or the equivalent

Examination

- INL1 - Assignment, 1.0 credits, grading scale: P, F
- STU1 - Study Visit, 1.0 credits, grading scale: P, F
- TEN1 - Written exam, 4.0 credits, grading scale: A, B, C, D, E, FX, 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.

Other requirements for final grade

Oral presentation of homework assignment

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.