



MG1216 Industrial Operational Reliability II 7.5 credits

Industriell driftssäkerhet II

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

Establishment

The official course syllabus is valid from the autumn semester 2026 as decided by the Faculty Board decision HS-2025-2588. Date of decision: 2025-10-08.

Grading scale

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

Education cycle

First cycle

Main field of study

Technology

Specific prerequisites

Completed course MG1211

Intended learning outcomes

1. Analyze and integrate strategies to improve operational reliability
2. Apply tools and methods to plan and improve operational reliability

3. Apply methods to identify and prevent operational downtime
4. Analyze issues related to the introduction of maintenance management systems
5. Assess risks and develop proposed solutions to maintain operational reliability
6. Analyze system life cycles and apply theories about how they affect operational reliability

Course contents

- Theoretical review of operational reliability, including methods and models
- Case studies focusing on optimizing operational reliability
- Identifying and managing risks that affect operational reliability
- Study visits
- Problem solving related to challenges in operational reliability

Examination

- INL1 - Assignments, 2.0 credits, grading scale: P, F
- PRO1 - Project work, 2.5 credits, grading scale: A, B, C, D, E, FX, F
- SEM1 - Seminar, 0.5 credits, grading scale: P, F
- TEN1 - Written examination, 2.5 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. 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.