# ML1600 Introduction to Industrial Technology and Production Maintenance 6.0 credits

## Introduktion till industriell teknik och produktionsunderhåll

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

## Establishment

Course syllabus for ML1600 valid from Autumn 2018

## Grading scale

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

## Education cycle

First cycle

## Main field of study

Technology

## Specific prerequisites

## Language of instruction

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

## Intended learning outcomes

On completion of the course the student should be able to:

- account for basic concepts in industrial production
- explain basic principles for industrial maintenance and reliability
- explain what a maintenance engineer works with
- explain on a basic level the concept of ecological, social and economic sustainable development from an engineering perspective
- discuss sustainable development in some technical areas from an introductory perspective

## Course contents

- The course provides basic knowledge of how industrial production works, with special focus on industrial maintenance and reliability
- Study visits in the manufacturing industry and contact with professional engineers
- Sustainable development: introduction to sustainability, definitions and key basic concepts; the role of engineering for sustainable development; physical resource management and complex systems; perspective and normative approach to dilemmas in sustainable development; a series of lectures, active seminars and a written exam

## Course literature

Meddelas tiio veckor före start.

## Examination

- ÖVN1 - Exercise, 1.5 credits, grading scale: P, F
- TEN2 - Written examination, 3.0 credits, grading scale: A, B, C, D, E, FX, F
- ANN1 - Sustainable development, 1.5 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.

## Other requirements for final grade

Examination

Written assignments

Shop floor project

## 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.