MF2086 Research Methodology in Management and Organization 6.0 credits

Forskningsmetodik i ledning och organisation

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

Establishment

Course syllabus for MF2086 valid from Spring 2017

Grading scale

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

Education cycle

Second cycle

Main field of study

Mechanical Engineering

Specific prerequisites

Degree of Bachelor in mechanical engineering or the equivalent.

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 should be able to:

- Describe various research methods of both qualitative and quantitative nature

- Apply various research methods of both qualitative and quantitative nature. Examples of these methods are mean value comparisons (t-test and ANOVA) and multiple regression analysis. Examples of methods for qualitative analysis are text analysis and open coding

- Choose research methods that are relevant for different types of research studies

- Explain and discuss the weaknesses and strengths of various research methods

- Demonstrate analytical and critical thinking

- Apply KTH ethics for copying and citation of others' work

Course contents

The participants will carry out a scientific work, where it is included to collect, describe and analyse data with appropriate research method. The results should be discussed in relation to earlier and future research, as well as analyse weaknesses and strengths in own and others' research.

The work should be presented orally and in writing.

Course literature

Will be announced at the beginning of the course.

Examination

- INL1 - Hand in Exercise, 2.0 credits, grading scale: A, B, C, D, E, FX, F
- ÖVN1 - Exercise, 2.0 credits, grading scale: P, F
- INL2 - Hand in Exercise, 2.0 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.

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.