



Course syllabus

Faculty of Technology

Department of Mechanical Engineering

2SE39E Systemekonomi, examensarbete (kandidat), 15
högskolepoäng

Total Quality Maintenance, Degree Project (Bachelor), 15 credits

Main field of study

Total Quality Maintenance

Subject Group

Industrial Engineering and Management

Level of classification

First Level

Progression

G2E

Date of Ratification

Approved by Faculty of Technology 2015-05-13

The course syllabus is valid from spring semester 2016

Prerequisites

The student is expected to have successfully completed 60 higher education credits within the subject of Total Quality Maintenance, in which 1SE010 Quality Management, 1SE016 Maintenance planning and 1SE007 Facilities Planning and Production Management or similar are included.

Objectives

After completing the course the students are expected to:

- be able to apply and deepen the knowledge acquired during the time of study
- know the foundations of scientific methods
- define problems, plan and implement a task of research nature
- present and analyze an industrial problem
- present their results orally and in writing
- write a scientific thesis according to the requirements for internal reports
- critically examine different information sources

Content

During the course the student, in consultation with the examiner and supervisor, is to implement and present a task of research nature.

Work will be an industrial application of sub-systems within terotechnology (such as quality, logistics, maintenance, LCC). Focus is placed on an area treated for two additional areas.

The work is to be presented in a report which is either a scientific thesis or an investigation report on a scientific basis. The report also has to be defended in a

seminar.

Type of Instruction

The teaching consists of seminars and tuition.

Examination

The course is assessed with the grades A, B, C, D, E, Fx or F.

The examination is based on the submitted report of the degree project as well as on the opposition to another report.

The grade A constitutes the highest grade on the scale and the remaining grades follow in descending order where the grade E is the lowest grade on the scale that will result in a pass. The grade F means that the student's performance is assessed as fail (i.e. received the grade F).

Course Evaluation

During the course or in close connection to the course, a course evaluation is to be carried out. The result and analysis of the course evaluation are to be communicated to the students who have taken the course and to the students who are to participate in the course the next time it is offered. The course evaluation is carried out anonymously. The compiled report will be filed at the Faculty.

Credit Overlap

This course cannot be part of a degree in combination with another course in which the content fully or partly correspond to the content of this course: 2SE09E, 15 credits

Other

Grade criteria for the A–F scale are communicated to the student through a special document. The student is to be informed about the grade criteria for the course by the start of the course at the latest.

Required Reading and Additional Study Material

Reference Literature

American Psychological Association. Publication Manual of the American Psychological Association (4th ed), Washington DC : American Psychological Association, 1994

Day, R. A., How to write & publish a scientific paper (5th ed.), Cambridge: Cambridge University Press, 1988

Graziano, A. M., Raulin, M. L., Research methods: a process of inquiry, 4th ed. Boston : Allyn and Bacon, cop. 2000

Chalmers, A., What is This Thing Called Science?, University of Queensland Press, Australia, 1976

Järvinen, Pertti., On research methods, Opinpaja Oy, Tampere, 1999

Yin, Robert K., Case Study Research - Design and Methods 3d Ed., Sage Publications Inc., Thousand Oaks., 2003