



Course syllabus

Faculty Board of Science and Engineering
School of Engineering

1SE801 Introduktion till industriell verksamhet, 7,5 högskolepoäng
Introduction to industrial operations, 7.5 credits

Main field of study

Total Quality Maintenance, Mechanical Engineering

Subject Group

Industrial Engineering and Management

Level of classification

First Level

Progression

GIN

Date of Ratification

Approved by the Board of the School of Engineering 2010-11-29

Revised 2011-06-13. Review of the Literature

The course syllabus is valid from autumn semester 2011

Prerequisites

General entry requirements. Basic eligibility

Expected learning outcomes

After completing the course the student is expected to be able to:

- account for the concepts of quality, reliability and maintenance, production logistics and life cycle cost
- understand how quality, maintenance, logistics and economy can integrate and create synergy effects.
- understand the basics of project oriented way of work

Content

The course gives a survey description of concepts, tools, methods, applications and integration of the following:

- Total Quality Management
- Quality control
- Reliability and maintenance
- Logistics
- Quality control
- Technological/economic effectiveness
- basic project planning

Type of Instruction

The teaching consists of lectures, group work, laboratory work, written assignments and a case study.

Examination

The course is assessed with the grades U,3,4 or 5.

On request, students may have their credits translated to ECTS-marks. Such a request must be sent to the examiner before the grading process starts. The examination is based on submitted reports and oral or written presentation of compulsory assignments.

Course Evaluation

A written course evaluation will be carried out at the end of the course in accordance with the guidelines of the University. The course evaluation will be filed at the department.

Credit Overlap

Overlaps with 1SE001 Business driven Quality Maintenance.

Other

Some elements in the course may entail costs defrayed by the course participants.

The course language is English if international students attend the course.

Required Reading and Additional Study Material

Compulsory reading

Hill, Terry, Operations Management, Palgrave macmillan, 2nd. ed., 2005. 500/764 pages.

Additional reading

Christopher, Martin, Logistics and Supply Chain Management, Prentice Hall, latest ed.

Bergman, Bo, Klefsjö, Bengt, Kvalitet från behov till användning, Studentlitteratur, 1995.