



## Course syllabus

Faculty Board of Science and Engineering  
School of Engineering

4SE602 Underhållsledning: informationsteknik, 6 högskolepoäng  
Maintenance Management: Information technology, 6 credits

**Main field of study**

Total Quality Maintenance

**Subject Group**

Industrial Engineering and Management

**Level of classification**

Second Level

**Progression**

A1F

**Date of Ratification**

Approved by Organisational Committee 2009-07-24

The course syllabus is valid from spring semester 2010

**Prerequisites**

To be admitted to the course basic eligibility for studies on advanced level is required as well as knowledge corresponding to English B and the courses Maintenance Systems 7,5 hp and Engineering Economics 7,5 hp. Corresponding knowledge could be many years of experience within maintenance management and high ability to read and speak English.

**Expected learning outcomes**

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

- account for areas of use, functionality and structure of frequently used IT systems for maintenance management
- briefly account for data and information related to maintenance
- account for frequently used performance indicators within maintenance
- account for the use of IT systems as a support for maintenance decision-making on strategic, tactical and operational level
- interpret and analyse output data from maintenance management IT systems
- understand the effects of common limitations within IT systems on functionality and utility
- choose IT solution for maintenance management based on defined requirements

## Content

The course comprises the following elements:

- IT systems for maintenance management: definitions, structure, history, areas of use, and advantages and disadvantages
- Methods and tools for evaluation of requirements and IT solutions
- Maintenance related data and information
- The concept IT integration from a maintenance perspective

## Type of Instruction

Distance learning through a learning management environment, Internet and seminar meetings.

Teaching consists of distance education by individual studies, group exercises and jointly meetings with lectures and seminars. Participation in the meetings is mandatory.

## Examination

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

The examination is based on oral and/or written presentation of compulsory assignments and participation in web-based discussions.

## Course Evaluation

When the course has finished, an evaluation is compiled. The results are reported to the students and then archived according to the rules of the school.

## Other

Some elements of the course may entail costs that are to be defrayed by the course participant. The course is offered in English if there are international student participants

## Required Reading and Additional Study Material

### **Required reading**

Bagadia, K., Computerized maintenance management systems made easy: how to evaluate, select, and manage CMMS, New York : McGraw-Hill, 2006 (e-bok).

Kans, M., On the Utilisation of Information Technology for the Management of Profitable Maintenance, Växjö: Växjö University Press, 2008

Current articles and standards.