



Course syllabus

Faculty Board of Science and Engineering
School of Engineering

1SE004 Informationssystem i producerande företag, 7,5
högskolepoäng

Information Systems in Manufacturing Companies, 7.5 credits

Main field of study

Total Quality Maintenance

Subject Group

Industrial Engineering and Management

Level of classification

First Level

Progression

G1N

Date of Ratification

Approved by Organisational Committee 2009-07-24

The course syllabus is valid from spring semester 2010

Prerequisites

General entry requirements. Basic eligibility

Expected learning outcomes

After completing the course the students are expected to be able to

- give an account of basic concepts like data, information, information technology (IT) and information systems
- give an account of common IT systems in manufacturing companies
- understand the relations between information systems and industrial activities
- choose a suitable IT system on the basis of the needs of an activity

Content

The course comprises the following elements:

- The information concept and closely related concepts
- The structure of IT systems
- The functionality and areas of use of various information systems; communication systems, decision support systems, etc.
- IT and industrial activities
- IT as support for industrial processes; business solutions,

ERP, MRPII, CIM, etc.

- IT as a strategic tool
- IT organization
- IT system selection
- IT security; internal and external threats in manufacturing companies

Type of Instruction

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

Examination

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

The examination is based on submitted reports and the oral or written presentation of compulsory assignments

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 course elements may involve costs that have to be defrayed by the course participant. The course is offered in English if there are international participants.

Required Reading and Additional Study Material

Required reading

Beynon-Davies, Paul Information systems – An introduction to informatics in Organisations. ca 300 p.

Material supplied by the department (in the form of compendiums and references to current websites on commercial IT systems) c.150 p.

Reference literature

Beekman, George Computer Confluence –Exploring Tomorrow's Technology, New Jersey/Prentice Hall, latest edition