



IV1016 IT in Organizations 7.5 credits

IT i organisationer

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

If the course is discontinued, students may request to be examined during the following two academic years

Establishment

Course syllabus for IV1016 valid from Autumn 2008

Grading scale

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

Education cycle

First cycle

Main field of study

Technology

Specific prerequisites

Language of instruction

The language of instruction is specified in the course offering information in the course catalogue.

Intended learning outcomes

The aim of this course is to provide you with the understanding about how IT is used or can be used in organisations. It will provide an understanding about theories and methodologies that a business can use directly and/or choose to assist in the development of IT-systems.

At the end of this course you will be able to:

- Describe an organisation and its structure
- Describe modern business strategies
- Describe infrastructures of information systems
- Describe strategies, methodologies and techniques for system development
- Describe organisational perspectives of IT security
- Describe ethical rules of system development
- Describe life cycle models for systems development
- Define different types of information systems
- Structure work tasks and information according to how they are used in an organisation
- Extract and manipulate information in databases and other data sources
- Analyse organisations and change requirements with respect to the use of IT
- Design organisation, information and process models
- Design a system and IT architecture for an organisation and its business processes

Course contents

The course discusses how organisations use and can use IT to support its business and how these systems are developed.

The course will cover:

- Organisations and organisational structures
- Systems, work systems and information systems
- Structuring information and work tasks of operational and strategic business processes
- Business strategies
- Infrastructure of information systems, focusing on databases and hardware including networks
- IT security from an organisational perspective

- Strategies, methodologies and techniques for information system development
- How personal information can and may be used in information systems
- Ethical questions and other data sources
- The life cycle model for system development

Course literature

Information Systems: The Foundation of E-Business, Alter Steven

Edition: 4 Publisher: Prentice Hall Year: 2002

ISBN: 0-13-043242-3

Examination

- INL1 - Assignment, 4.5 credits, grading scale: P, F
- TEN1 - Examination, 3.0 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.

Other requirements for final grade

Examination 3 course credits, grades A/B/C/D/E/Fx/F

Assignment 4,5 course credits, grades P/F

The course grade is decided by the examination.

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.