



IV2025 IT-Management I 30.0 credits

IT-Management I

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

Establishment

Grading scale

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

Education cycle

Second cycle

Main field of study

Specific prerequisites

Language of instruction

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

Intended learning outcomes

On succesfull completion of this course the student should be able to;Define and exemplify basic systems theory concepts using a systemic approachCompare systems models and their

diverse areas of application Understand, analyse and apply a business perspective to IT Describe the role of IT systems and IT management in organisations with focus on communication Identify and analyse key components in an organisation's IT platform from a customer perspective Assess the value and alignment of IT-platforms to corporate goals and business need S Propose an IT platform design that meets the needs of an organisation Show practical skills in analysis and change of corporate business processes through the innovative use of Information and Communication Technologies (ICT) Use rationalistic and non-rationalistic methods for analysis, design and automation of work processes/workflows Understand basic concepts in IT economics Carry out business scans of companies or industries

Course contents

The basic idea of the course is to give system scientists and students from other IT-programs an academic framework that will help them to place their technical knowledge in a business, organisational and future-oriented perspective. This purpose is accomplished through the development of the analytical and practical capabilities on the role and use of Information and Communication Technology (ICT) in the transformation of organisations, businesses and decision makers. The starting point is the analysis of how organisations, their directors and managers use ICT in practice to end up with propositions about how it should be done. From this perspective we discuss what IT has done and is doing to business and working processes. This creates prerequisites to successfully construct and develop systems.

Disposition

The course includes four sub courses; "Systems Theory" (IV1012), "Organisation, IT-system and management" (IV2004), "IT-platform: Strategy, architecture and design" (IV2005) and "IT-management" (IV2006). Lectures, laborations and seminars are given.

Course literature

Beer, Stafford: Diagnosing the System for Organizations Peter G. W. Keen, J. Michael Cummins : Networks in Action: Business Choices and Telecommunications Decisions ISBN 978-0534177666 Terry Winograd & Fernando Flores: Understanding Computers and Cognition: A new foundation for design Upplaga : 14 ISBN 0-201-11297-3 Don Tapscott/David Ticoll/Alex Lowy: DIGITAL CAPITAL Harnessing the power of business webs Upplaga : 2000 Charles Handy: The Age of Unreason Upplaga : Senaste Schoderbek, Schoderbek, Kefalas: Management Systems, Conceptual Considerations Upplaga : Specialutg, kap 1-10 Stephen P. Robbins: Essentials of Organizational Behavior Upplaga : edition 6, 7 or 8 ISBN 0-13-035309-4

Equipment

None, but personal computer/laptop is recommended.

Examination

- TEN4 - Examination, 4.5 credits, grading scale: A, B, C, D, E, FX, F
- TEN3 - Examination, 6.0 credits, grading scale: A, B, C, D, E, FX, F
- TEN2 - Examination, 6.0 credits, grading scale: A, B, C, D, E, FX, F
- TEN1 - Examination, 4.5 credits, grading scale: A, B, C, D, E, FX, F
- UPP5 - Assignment, 3.0 credits, grading scale: A, B, C, D, E, FX, F
- UPP4 - Assignment, 1.5 credits, grading scale: A, B, C, D, E, FX, F
- UPP3 - Assignment, 1.5 credits, grading scale: A, B, C, D, E, FX, F
- UPP2 - Assignment, 1.5 credits, grading scale: A, B, C, D, E, FX, F
- UPP1 - Assignment, 1.5 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.

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

Other requirements for final grade

The final marks for the whole course is based on the average results of each sub course.

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.