



# IV2031 Strategic Management of IT 7.5 credits

## Strategisk IT management

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 IV2031 valid from Spring 2009

## Grading scale

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

## Education cycle

Second cycle

## Main field of study

## Specific prerequisites

For "single course" students,

- Completed documented upper secondary education incl documented proficiency in English and
- 180 ECTS credits (hp) in information technology/ computer science/ computer and systems sciences are required.

## Language of instruction

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

## Intended learning outcomes

After the course the student will be able to:

- Identify the main issues in effective management and use of IT resources.
- Define the importance of the alignment of IT strategy with business strategies.
- Analyze the decisions taken in case of strategic information systems planning.
- Define the critical role that IT Governance plays in how much value an enterprise receives from IT.
- Assess the value of IT investments.
- Analyze the strategic issues regarding IT outsourcing.

The students will have also the opportunity to learn and enhance more their knowledge during their team project work by analyzing different case studies related to strategic use of information technology.

## Course contents

- The information systems strategy triangle
- The strategic use of information resources
- Strategic information systems for competitive advantage
- IT strategy
- Managerial considerations regarding IT architecture and IT infrastructure
- IT planning for strategic advantage
- Managing the IT function
- IT Governance
- Assessing the value of IT investments
- Strategic outsourcing

## Disposition

Teaching hours = 35 hours (20 hours for lectures+18 hours for team project). The lectures and seminars will be held in English.

## Course literature

Preliminary:

- Jerry N. Luftman: Managing the Information Technology Resource: Leadership in the Information Age, Prentice Hall, 2004, 0-13-035126-1
- Keri E. Pearlson and Carol. S. Saunders: Managing and Using Information Systems. A Strategic Approach (Upplaga: 3ed.), John Wiley & Sons, 2006, 0-471-71538-7

## Examination

- INL1 - Assignment, 3.0 credits, grading scale: A, B, C, D, E, FX, F
- PRO1 - Project, 4.5 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.

## Other requirements for final grade

The examination of the course consists in individual assignments and a team project. The final grade will be based upon the average grade of the individual assignments and the team project (report and presentation).

## 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.