



## Course syllabus

Faculty Board of Science and Engineering  
School of Computer Science, Physics and Mathematics

1DV442 Grundläggande IT-säkerhet, 7,5 högskolepoäng  
IT - Security, 7.5 credits

**Main field of study**  
Computer Science

**Subject Group**  
Informatics/Computer and Systems Sciences

**Level of classification**  
First Level

**Progression**  
G1N

**Date of Ratification**  
Approved by the Board of the School of Computer Science, Physics and Mathematics  
2009-11-19

Revised 2010-09-24. Revision made for English translation of the syllabus and course evaluation.

The course syllabus is valid from spring semester 2011

**Prerequisites**  
NO VALUE DEFINED

### Expected learning outcomes

After completing this course the student should have basic knowledge in the following areas:

- the concept of ITsecurity
- PCsecurity
- network security
- the external and internal threats that can affect a system
- personal firewalls and antivirus software
- physical and environmental security related to SS-ISO/IEC 27002
- threats against wireless networks WLAN
- how security is planned and controlled.

## Content

The course contains both theoretical aspects with practical. Laboratory work are carried out on the theoretical aspects of the course. In these lab works the students faces problem that must be solved either in group or individual.

Covered areas within the course:

- PCsecurity
- network security
- internet security
- hackers and their methods
- malicious software – types and consequences
- physical security
- information security.

## Type of Instruction

The course is offered entirely at a distance without physical meetings.

## Examination

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

The final grade is given for completion of the course and based on the weighted result from written assignments.

On request, students may have their credits translated to ECTSmarks. Such request must be sent to the examiner before the grading process starts.

The student should be offered a new examination within six weeks, under the regular semester periods. The number of examinations is limited to five times.

## Course Evaluation

A course evaluation will be carried out at the end of the course in accordance with the guidelines of the University. The result of the course evaluation will be filed at the department.

## Required Reading and Additional Study Material

Mitrovic, P. (2005) *Handbok i IT-säkerhet*. (4.th edition) Sundbyberg: Pagina förlags AB. ISBN 9163608413.

### Reference literature

Lundblad, N. (2005) *Informationssäkerhet för chefer och ledare. Säkra ditt företag*. (1) Solna: Liber. ISBN 9789147073788.

Mitnick, K. D., Simon, W. L. & Wozniak, S. (2003) *Controlling the Human Element of Security. The Art of Deception*. (1) Indianapolis: JOHN WILEY & SONS. ISBN 076454280X.

Syrén, A. (2005) *En handbok om informationssäkerhet. På egen risk*. Stockholm: SIS Förlag AB. ISBN 9171626468.