



# HI2009 IT-Security III: Computer Forensics Lab 7.5 credits

## IT-säkerhet III: Laborationer

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 HI2009 valid from Autumn 2009

## Grading scale

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

## Education cycle

Second cycle

## Main field of study

Electrical Engineering

## Specific prerequisites

Knowledge corresponding to HI119V IT-Sec II and documented proficiency in English corresponding to English B.

## Language of instruction

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

## Intended learning outcomes

The course goal is to enable the student to work with typical Computer Forensics tools, as a continuation to the Computer Forensics theory studied in the IT-Sec II Computer Forensics course.

## Course contents

How to use typical Computer Forensics tools and techniques. Hard disk analysis, Mobile phone analysis, Sniffers, Network Monitoring. Wireless Surveillance.

## Disposition

This is a distant learning course. All course material is in English. This course is the continuation of IT-Sec I and IT-Sec II Computer Forensics courses.

## Course literature

### **Investigation;**

### **Forensic Tools & Technology,**

Eoghan Casey, 2001, 448 pp

Academic Press,

ISBN-10: 0121631036

ISBN-13: 9780121631031

### **Real Digital Forensics,**

Jones, Bejtlich & Rose,

Addison-Wesley, 2005, 650 pp

ISBN-10: 0321240693

ISBN-13: 9780321240699

### **Digital Course Notes**

**IT-Sec III**, 3 CDs, 1.5 GB, L.O.Stromberg

# Equipment

You will need:

- \* A personal computer (PC) running Windows XP / Vista / 7
- \* Internet access
- \* two working email addresses (do not use free webmail clients, use POP3)
- \* A scientific pocket calculator

# Examination

- LAB1 - Laboratory Work, 1.5 credits, grading scale: P, F
- LAB2 - Laboratory Work, 1.5 credits, grading scale: P, F
- LAB3 - Laboratory Work, 1.5 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.

Examinations are offered three times a year: typically the first Saturday in May, August, and December.

Written examinations are four hours long, and consist of 68 questions; 60 of which are multiple choice (5 choices each) and 8 are in depth questions, including mathematical calculations. The Final examination in IT-Sec III is a lab project.

Written examinations worldwide can usually be arranged at other universities, as well as at Swedish embassies and consulates.

# 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.