



UNIVERSITY
OF SKÖVDE

COURSE SYLLABUS

Network Security Operations A1N

7.5 credits

Course code: IT760A

Version number: 5

Valid from: 1 January 2020

Ratified by: Curriculum Committee for Informatics

Date of ratification: 29 May 2019

1. General information about the course

The course is provided by the University of Skövde and is named Network Security Operations A1N (Säker nätverksdrift A1N). It comprises 7.5 credits and is a second-cycle course. The level of progression is A1N.

The course is a part of the main field of study in Informatics. The disciplinary domain of the course is Technology.

2. Entry requirements

A Bachelor degree (equivalent to a Swedish Kandidatexamen) within the fields of Informatics or Computer science or similar.

A further requirement is proof of skills in English equivalent of studies at upper secondary level in Sweden, known as English course 6 / English course B. This is normally demonstrated using an internationally recognized test, e.g. IELTS, TOEFL or the equivalent.

3. Course content

The course is divided into a theoretical and a practical part. The theoretical part aims to provide the students with deeper knowledge about the methods and tools that are common in Intrusion Detection. The practical part aims to give students the opportunity to apply their knowledge in intrusion detection, such as practically secure a system and to detect malicious traffic. The students will also give presentations at seminars to deepen and discuss achieved knowledge of current research directions in the field.

4. Objectives

After completed course the student should be able to:

- explain the basic concepts in Intrusion Detection,
- explain common network based attacks,
- describe and discuss the content of research directions in the field,
- autonomously critically review reports and orally presented materials from intrusion detection research and
- install, operate and maintain an intrusion detection system.

5. Examination

TRANSLATION FROM SWEDISH

The course is graded A (Excellent), B (Very good), C (Good), D (Satisfactory), E (Sufficient) or F (Fail).

The examinations of the course consist of the following modes of assessment:

- **Seminar assignments**
5 credits, grades: A/B/C/D/E/F (determines the final grade)
- **Practical assignment**
2.5 credits, grades: G/U

Students with a permanent disability who have been approved for directed educational support may be offered adapted or alternative modes of assessment.

6. Types of instruction and language of instruction

The teaching is comprised of seminars/group discussions, laboratory sessions and lectures.

The teaching is conducted in English.

7. Course literature and other educational materials

Selected materials will be announced by the lecturers during the course. This includes recent research articles, whitepapers, and technical reports.

8. Student influence

Student influence in the course is ensured by means of course evaluation. The students are informed about the results of the evaluation and potential measures that have been taken or are planned, based on the course evaluation.

9. Additional information

Further information about the course, as well as national and local governing documents for higher education, is available on the website of the University of Skövde.