COURSE SYLLABUS

Dataskydd och anonymitet A1N
Privacy A1N
7.5 credits

Course Code: IT755A
The Course Syllabus is valid from: 1 July 2019
Date of Approval: 4 October 2018
Version Number: 2

Subject: Informatics
Main Field of Study: Informatics
Disciplinary Domain: Technology
Academic Level: Advanced level

1 Name, Scope and Level of the Course
The course is provided by the University of Skövde and is named Privacy A1N. It comprises 7.5 credits and is on advanced level. The level of progression of the course is A1N.

2 Objectives
After completed course the student should be able to:

- describe and critically reflect upon privacy from three different perspectives: anonymous communication, privacy preserving data mining, and statistical disclosure control;
- describe and critically reflect upon basic concepts including anonymity, disclosure, data utility, and privacy by design;
- describe and critically reflect upon privacy models;
- critically reflect upon social and ethical aspects related to privacy; and
- implement and critically evaluate a data privacy model.

3 Course Content
The course provides an overview and an understanding of the area of privacy. It presents privacy from three different perspectives: anonymous communications, privacy preserving data mining and disclosure control. It will present the main concepts of the area, which include anonymity, disclosure, data utility, and privacy by design. The course will study main privacy models (including re-identification, k-anonymity, differential privacy and secure multi-party computation) and present basic techniques for implementing these privacy models. The course will consider applications as anonymous communication, private information retrieval, data mining, and statistics.

4 Forms of Teaching
The teaching comprises lectures and seminars/group discussions.

The teaching is conducted in English.

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

Registration of examination results:

<table>
<thead>
<tr>
<th>Name of examination</th>
<th>Credits</th>
<th>Grading</th>
</tr>
</thead>
<tbody>
<tr>
<td>Written assignment</td>
<td>5.5</td>
<td>A/B/C/D/E/F</td>
</tr>
<tr>
<td>Seminar presentation</td>
<td>2</td>
<td>G/U</td>
</tr>
</tbody>
</table>

1 Determines the final grade of the course.

Students with a permanent disability who have been approved for special educational support may be offered adapted or alternative examinations.

6 Admission Requirements
A Bachelor’s degree (equivalent to a Swedish kandidategymnasiemål) within the fields of informatics or computer science or the equivalent.
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 (or the equivalent). This is normally demonstrated by means of an internationally recognized test, e.g. IELTS or TOEFL.

7 Subject, Main Field of Study and Disciplinary Domain
The course forms a part of the academic subject area of Informatics. The course is a part of the main field of study in Informatics at the University of Skövde. The disciplinary domain of the course is Technology.

Every course at the University of Skövde belongs to a subject. The division of subjects is used for follow-up and quality assurance. A main field of study is an area in which a degree can be awarded. Disciplinary domain is a division which is used by the government for the allocation of resources for studies at basic level and advanced level.

8 Approval of Course and Course Syllabus
The course was approved by the Curriculum Committee for Informatics on 4 October 2018. This course syllabus was approved by the Curriculum Committee for Informatics on 4 October 2018. It is valid from 1 July 2019.

9 Overlapping with Another Course
This course cannot constitute a part of a degree also containing a course the content of which is totally or partly equivalent to the content of this course.

10 Additional Information
Further information will be available on the university’s website before a course is given.

National and local regulations for higher education are available on the university’s website.

Upon completion of the course there will be a follow-up. The main purpose of this follow-up is to contribute to improvements of the course. The students’ experiences and views constitute one of the criteria for the follow-up and are gathered by means of course evaluations. The students will be informed of the results of the follow-up and any decisions regarding actions that are to be taken.

11 Course Literature and Other Educational Materials

Scientific papers indicated on the course website.