COURSE SYLLABUS

Dataskydd och anonymitet A1N
Privacy A1N
7.5 credits

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 kandidatexamen) within the fields of informatics or computer science or the equivalent.
A further requirement is proof of skills in English equiva-
ient 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 TO-
EFL.

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 Commit-
tee for Informatics on 4 October 2018. This course sy-
labus 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’ experi-
ences and views constitute one of the criteria for the
follow-up and are gathered by means of course evalua-
tions. 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 Ma-
terials
Developments and the Big Data Challenge. Cham:
Springer International Publishing. ISBN 978-3-319-
86141-8.

Scientific papers indicated on the course website.