1 Name, Scope and Level of the Course
The course is provided by the University of Skövde and is named Information Security - Network Security G1F. It comprises 7.5 credits and is on basic level. The level of progression of the course is G1F.

2 Objectives
The student should after completing the course be able to:

- describe the area of central concepts;
- describe and evaluate network security principles such as authentication, authorization, encryption, and maintenance of secured networks;
- use tools that is related to network security;
- apply advanced techniques for network security; and
- analyze and discuss complex network security vulnerabilities.

3 Course Content
The course contains two modules, one theoretical and one practical. The theoretical part provides extended knowledge in the field of network security with emphasis on authentication, authorization, encryption, and implementation of secured networks. The practical part develops specialized security skills that along with critical thinking develops the ability to solve complex problems in network security.

4 Forms of Teaching
The teaching comprises lectures and laboratory sessions.

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 examination¹</td>
<td>3 credits</td>
<td>A/B/C/D/E/F</td>
</tr>
<tr>
<td>Laboratory assignment</td>
<td>4.5 credits</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
Prerequisite courses for this course are: Passed courses: IT139G-Information Security - Introduction G1N and IT356G-Data Communication - Routing and Switching G1F (or the equivalent).

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 27 August 2020. This course syllabus was approved by the Curriculum Committee for Informatics on 27 August 2020. It is valid from 1 January 2021 and replaces the course syllabus approved 7 May 2020.

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


Other course material is provided by the course coordinator and lecturers during the course.