COURSE SYLLABUS

Introduction to cyber security G1N

1 Name, Scope and Level of the Course

The course is provided by the University of Skövde and is named Introduction to cyber security G1N. It comprises 15 credits and is on basic level. The level of progression of the course is G1N.

2 Objectives

After completed course the student should be able to:

- describe common security threats to client and server operating systems,
- describe common security threats to networks,
- describe security functions for networks and operating systems,
- describe principles for structured cyber security work,
- perform basic configuration of, and use tool for analysis of network traffic,
- perform basic configuration of, and use tool for detection of incidents in computer systems,
- perform basic penetration testing.

3 Course Content

The course covers the content in Cisco CCNA Cybersecurity Operations and provides an introduction to cyber security. The course begins with fundamental concept of the Windows and Linux operating systems and fundamental networking concepts. The course continues with a discussion on different threats, threat actors and attack types that are common. The course ends with techniques and mechanisms used to protect against those threats and principles for how to work with cybersecurity in a structured way.

4 Forms of Teaching

The teaching comprises lectures and supervision.

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>Practical assignments</td>
<td>5 credits</td>
<td>G/U</td>
</tr>
<tr>
<td>Assignments</td>
<td>5 credits</td>
<td>G/U</td>
</tr>
<tr>
<td>Electronic written exam¹</td>
<td>5 credits</td>
<td>A/B/C/D/E/F</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

General requirements for university studies (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 20 January 2020. This course syllabus was approved by the Curriculum Committee for Informatics on 20 January 2020. It is valid from 1 June 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, e.g. Information Security - Introduction G1N 7.5 credits

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**

Literature is provided to the students, in electronic form, at the start of the course.