Course Code: IT151G
The Course Syllabus is valid from: 1 July 2020
Date of Approval: 5 March 2020
Version Number: 1

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

1 Name, Scope and Level of the Course

The course is provided by the University of Skövde and is named Wireless Networks G1N. It comprises 7.5 credits and is on basic level. The level of progression of the course is G1N.

2 Objectives

After completing this course the student should be able to:

- define the main concepts within wireless networks,
- describe fundamental antenna principles,
- describe security problems and security mechanisms in wireless networks,
- plan and design wireless networks,
- describe troubleshooting and common problems in wireless networks.

3 Course Content

The course covers present and emerging technologies for wireless communications. This course also gives basic knowledge about wireless access methods and antennas. Students will plan and design wireless networks practically. The course also gives knowledge about security problems, security mechanisms and troubleshooting of wireless networks.

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>6 credits</td>
<td>A/B/C/D/E/F</td>
</tr>
<tr>
<td>Laborations and assignments</td>
<td>1.5 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

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 5 March 2020. This course syllabus was approved by the Curriculum Committee for Informatics on 5 March 2020. It is valid from 1 July 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 literature according to the teachers’ instructions.