UNIVERSITY OF SKÖVDE

TRANSLATION FROM SWEDISH

COURSE SYLLABUS

Wireless Networks G1N

7.5 credits

Course code: IT151G
Version number: 7
Valid from: 1 July 2020
Ratified by: Curriculum Committee for Informatics
Date of ratification: 5 March 2020

1. General information about the course

The course is provided by the University of Skövde and is named Wireless Networks G1N (Trådlösa nätverk G1N). It comprises 7.5 credits and is a first-cycle course. The level of progression is G1N.

The course is a part of the main field of study in Informatics. The disciplinary domain of the course is Technology.

2. Entry requirements

General entry requirements (or the equivalent).

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. 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.

5. Examination

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

The examinations of the course consist of the following modes of assessment:

- **Written examination**
  6 credits, grades: A/B/C/D/E/F (determines the final grade)
- **Laborations and assignments**
  1.5 credits, grades: G/U

Students with a permanent disability who have been approved for directed educational support may be offered adapted modes of assessment.

6. Types of instruction and language of instruction

The teaching is comprised of laboratory sessions and lectures.

The teaching is conducted in English.

7. Course literature and other educational materials

Coleman, D. & Westcott, D. (2018). *CWNA Certified Wireless Network Administrator Study Guide*. Wiley-Sybex. ISBN 9781119425786.

Other literature according to the teachers' instructions.

8. Student influence

Student influence in the course is ensured by means of course evaluation. The students are informed about the results of the evaluation and potential measures that have been taken or are planned, based on the course evaluation.

9. Additional information

Further information about the course, as well as national and local governing documents for higher education, is available on the website of the University of Skövde.