Linnæus University

Course syllabus

Faculty Board of Science and Engineering
School of Computer Science, Physics and Mathematics

4ED014 Antennteori, 7,5 högskolepoäng
Antenna Theory, 7.5 credits

Main field of study
Electrical Engineering

Subject Group
Electrical Engineering

Level of classification
Second Level

Progression
A1N

Date of Ratification
Approved by Organisational Committee 2009-08-11

The course syllabus is valid from spring semester 2010

Prerequisites
Admission to the course requires a bachelors degree (180 higher education credits) in electrical engineering, or the equivalent, and the course, Antenna technology, 7,5 higher education credits or the equivalent.

Expected learning outcomes
The course gives a specialization in antenna technology. The student is expected to combine knowledge of mathematics and antenna technology to obtain an overview of the design and computation problems of the field.

Content
The course comprises the following topics:

- Antenna synthesis, Schelkunoff's polynomial
- Integral equations for the computation of current distributions
- An orientation on antenna types
- Aperture antennas, spectral analysis
- Microstrip antennas

Type of Instruction
Teaching consists of lectures and laboratory sessions.

Examination
The course is assessed with the grades U,3,4 or 5.
On request, students may have their credits translated to ECTS-marks. Such a request

must be sent to the examiner before the grading process starts. Assignments and exam.

Course Evaluation

A written course evaluation will be carried out at the end of the course in accordance with the guidelines of the University. The course evaluation will be filed at the department

Required Reading and Additional Study Material

Required reading

Balanis C. A., *Antenna theory*, 3rd ed., Wiley, 2005. Pages 300 (1100).