IK252U Ericsson Radio School 4.5 credits

Ericsson radioskolan

This is a translation of the Swedish, legally binding, course syllabus.

Establishment

Course syllabus for IK252U valid from Spring 2016

Grading scale

P, F

Education cycle

Second cycle

Main field of study

Electrical Engineering

Specific prerequisites

Language of instruction

The language of instruction is specified in the course offering information in the course catalogue.

Intended learning outcomes

The aim of this course is to increase Ericsson's engineers skills in the radio area to facilitate efficient work, individually and in teams, with technical development that maintains Ericsson's industrial leadership.

On completion of the course, the participants should be able to

- explain the principles of wireless communication
- use professional skills in the design of passive and active microwave components
- explain the design of radio transmitters and receivers.

Course contents

Radio system technology and radio electronics.

Course literature

Principles of Wireless Communications by Lars Ahlin, Jens Zander, Ben Slimane.

Microwave Engineering by David M. Pozar.

RF Microelectronics" by Behzad Razavi.

Examination

- SEM1 - Seminar, 3.0 credits, grading scale: P, F
- INL1 - Assignment, 1.5 credits, grading scale: P, F

Based on recommendation from KTH's coordinator for disabilities, the examiner will decide how to adapt an examination for students with documented disability.

The examiner may apply another examination format when re-examining individual students.

If the course is discontinued, students may request to be examined during the following two academic years.

INL1- Four written assignments passed.

SEM1- At least 90 percent participation is required.

Ethical approach

- All members of a group are responsible for the group's work.
- In any assessment, every student shall honestly disclose any help received and sources used.
- In an oral assessment, every student shall be able to present and answer questions about the entire assignment and solution.