

*Course syllabus*

# Projekt i elektro- och informationsteknik Advanced Course in Electrical and Information Technology

**EITN35, 7,5 credits, A (Second Cycle)**

**Valid for:** 2023/24

**Faculty:** Faculty of Engineering, LTH

**Decided by:** PLED C/D

**Date of Decision:** 2023-04-18

## General Information

**Main field:** Nanoscience.

**Elective for:** C5, D5, E5, F5, MFOT1, MNAV2, MWIR2, N5

**Language of instruction:** The course will be given in English on demand

## Aim

The aim of the course is to give advanced knowledge and abilities in some scientific area within Electrical and Information Technology.

## Learning outcomes

### *Knowledge and understanding*

For a passing grade the student must

- have in-depth knowledge in the chosen scientific area
- have insight in the working procedure in a research project
- have insight in the work of a research group

### *Competences and skills*

For a passing grade the student must

- be able to independently plan, carry out and report a project
- be able to independently search, retrieve, work on and compile relevant information

- be able to systematically integrate and use knowledge from earlier courses in the study programme

### *Judgement and approach*

For a passing grade the student must

- carry out a research project in a research group
- be able to critically read, evaluate and draw conclusions from scientific literature

## Contents

- Supervised independent literature studies through databases and libraries
- Supervised independent work in close connection to an ongoing research project
- Written report in Swedish or English according to standards in international peer reviewed journals. Oral presentation in Swedish or English at a publicly announced seminar.

## Examination details

**Grading scale:** TH - (U,3,4,5) - (Fail, Three, Four, Five)

**Assessment:** Oral and written report.

The examiner, in consultation with Disability Support Services, may deviate from the regular form of examination in order to provide a permanently disabled student with a form of examination equivalent to that of a student without a disability.

## Admission

### **Admission requirements:**

- Students from the five year programmes shall have passed at least 120 credits. Students from the international master programmes shall have passed 45 credits

**Assumed prior knowledge:** Basic course in the chosen subject.

**The number of participants is limited to:** No

## Reading list

- Scientific papers or other literature related to the chosen topic.

## Contact and other information

**Course coordinator:** Anders J. Johansson , anders\_j.johansson@eit.lth.se

**Course homepage:** <http://www.eit.lth.se/course/eitn35>

**Further information:** The course can only be taken after a project has been agreed with an examiner at the department. Students are responsible for contacting an examiner well in advance of course start. An individual study plan is decided by the examiner. The course is given with a special focus for the I-programme during ht2, with industrial applications. In this instance, students do not need to contact an examiner in advance.