

Microprocessor Project

Programme course

2 credits

Mikrodatorprojekt

TNE100

Valid from: 2017 Spring semester

Determined by

Board of Studies for Electrical
Engineering, Physics and Mathematics

Date determined

2017-01-25

Main field of study

Computer Science and Engineering, Electrical Engineering

Course level

First cycle

Advancement level

G2X

Course offered for

- Electronics Design Engineering, M Sc in Engineering

Entry requirements

Note: Admission requirements for non-programme students usually also include admission requirements for the programme and threshold requirements for progression within the programme, or corresponding.

Prerequisites

Micro Computer Systems

Intended learning outcomes

After the course students should be able to:

- design digital systems with microprocessors or microcontrollers
- develop software in C/C++ for microprocessors or microcontrollers for various applications
- develop and implement different algorithms to utilize available hardware resources in the systems

Course content

Digital system design with microprocessors or microcontrollers on system and algorithm level. Software development for implementation of various algorithms. Debugging and testing skills

Teaching and working methods

Education in form of project work

Examination

PRA2 Oral and written examination 2 credits U, G

The examination of the course includes writing a project report and oral presentation of the project.

Grades

Two-grade scale, U, G

Department

Institutionen för teknik och naturvetenskap

Director of Studies or equivalent

Adriana Serban

Examiner

Qin-Zhong Ye

Education components

Preliminary scheduled hours: 8 h

Recommended self-study hours: 45 h

Course literature

Additional literature

Other

Common rules

Regulations (apply to LiU in its entirety)

The university is a government agency whose operations are regulated by legislation and ordinances, which include the Higher Education Act and the Higher Education Ordinance. In addition to legislation and ordinances, operations are subject to several policy documents. The Linköping University rule book collects currently valid decisions of a regulatory nature taken by the university board, the vice-chancellor and faculty/department boards.

LiU's rule book for education at first-cycle and second-cycle levels is available at http://stydokument.liu.se/Regelsamling/Innehall/Utbildning_pa_grund-_och_avancerad_niva.