

Automatic Control

Programme course

6 credits

Industriella styrsystem

TSIU06

Valid from: 2017 Spring semester

Determined by

Board of Studies for Mechanical
Engineering and Design

Date determined

2017-01-25

Main field of study

Electrical Engineering

Course level

First cycle

Advancement level

G1X

Course offered for

- Mechanical Engineering, B 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

Basic course in Automatic Control

Intended learning outcomes

The course is to give basic knowledge of sequence control techniques and modern industrial control systems.

Course content

Sequence control: Logic functions. Functional diagrams (GRAFCET).
Programmable logic controllers. Common components.
Process controllers: Supervision and control

Teaching and working methods

Mostly laboratory work.

Examination

| | | | |
|------|-----------------|-----------|------|
| PRA1 | Project work | 2 credits | U, G |
| LAB1 | Laboratory work | 4 credits | U, G |

Grades are given as 'Fail' or 'Pass'.

Grades

Two-grade scale, U, G

Department

Institutionen för systemteknik

Director of Studies or equivalent

Johan Löfberg

Examiner

Svante Gunnarsson

Course website and other links

Education components

Preliminary scheduled hours: 32 h

Recommended self-study hours: 128 h

Course literature

Kompendium och manualer från institutionen (ISY)

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://styrdokument.liu.se/Regelsamling/Innehall/Utbildning_pa_grund-_och_avancerad_niva.