

Automation Systems, 6 HE credits

Automationssystem, 6 hp

Established: 2018-12-21

Established by:

Applies from: H19

Learning outcomes

The student shall demonstrate knowledge and understanding of:

- how modern automation systems including human machine interfaces, control systems in networks and fieldbuses work
- structure, function and development trends of modern control systems
- how larger control applications, according to IEC 61131-3, are constructed

The student must demonstrate skills and ability to:

- independently construct control applications, according to IEC 61131-3, based from a given specification.

Entry requirements

Minimum 120 HE credits from a bachelor program including 90 HE credits in electrical, computer science or mechanical engineering or similar fields and RBK600 Robot Certificate 1.5 HE credits.

The forms of assessment of student performance

Individual PLC labs with oral presentation. A project for an automation system with individual oral presentation.

Other regulations

Course grading: F/Fx/E/D/C/B/A - Insufficient, Insufficient- more work required before the credit can be awarded, Sufficient, Satisfactory, Good, Very Good, Excellent

Course language: The teaching is conducted in English.

General rules pertaining to examination at University West are available at www.hv.se.

If the student has a decision/recommendation on special support due to disability, the examiner has the right to examine the student in a customized examination form.

Cycle

Second cycle

Progressive specialization

A1F - second cycle, has second-cycle course/s as entry requirements

Main field of study

Automation, Mechanical Engineering, Production Technology