

SYLLABUS

Automation 7.5 credits

T0014T

Automatisering

Course syllabus admitted: Autumn 2015 Sp 1 - Spring 2016 Sp 4

DECISION DATE
2015-06-18

Automation 7.5 credits T0014T

Automatisering

First cycle, T0014T

Education level	Grade scale	Subject	Subject group (SCB)
First cycle	G U 3 4 5	Produktionsteknik	Mechanical Engineering

Entry requirements

In order to meet the general entry requirements for first cycle studies you must have successfully completed upper secondary education and documented skills in English language and Basic knowledge in manufacturing engineering and technology equivalent to T0019T Manufacturing Methods or equivalent.

Selection

The selection is based on 1-165 credits.

Examiner

Jan Frostevarg

Course Aim

The students taking this course will obtain broad knowledge of machines and equipment used in automated and integrated manufacturing systems. Practical experience of automated systems will be provided through projects in the divisions robot cells and a small case study.

Contents

Automation equipment and technologies. PLC's industrial robots and automated transport and storage systems (60%). Machine tools, jigs and fixtures (20%). Case study (20%)

Realization

Each course occasion's language and form is stated and appear on the course page on Luleå University of Technology's website.

Lectures, seminars, case studies and group laboratory exercises. The lab.'s are compulsory.

Examination

If there is a decision on special educational support, in accordance with the Guideline Student's rights and obligations at Luleå University of Technology, an adapted or alternative form of examination can be provided. Successful completion of the lab.'s, exercises and project will give a pass grade. The grade can be improved by taking the written exam at the end of the course.

Overlap

The course T0014T is equal to MPR043, T0023T

Literature. Valid from Autumn 2013 Sp 1

Automation Technologies (E-bok) av Daniel E. Kandray, P.E.

Course offered by

Department of Engineering Sciences and Mathematics

Items/credits

Number	Type	Credits	Grade
0001	Laboratory work and Assignment report	7.5	G U 3 4 5
0002	Non-compulsory examination	0	G U 3 4 5

Last revised

by Mats Näsström 2015-06-18

Syllabus established

The syllabus was established by the Department of Applied Physics and Mechanical Engineering 2007-02-28, and remains valid from autumn 2007.