# Course: Automation & Control — credits: 5

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| **Course code** | WBVB25AR |
| **Name** | Automation & Control |
| **Study year** | 2026-2027 |
| **ECTS credits** | 5 |
| **Language** | English |
| **Coordinator** | H. Akkerman |
| **Modes of delivery** | Education |
| **Assessments** | Automation & Control - Assignment |

**Learning outcomes**

The student:

- can develop, build and debug digital control programs for simple industrial installations using Boolean algebra
- analyses a simple industrial installation and develop a control logic for that
- uses different logical functions for the control program such as and-, or-, not-, memory-, time- and counter-functions
- can draw control diagrams and defend the design
- programs PLC’s using ladder logic and sequential function chart and/or structured text language
- can make a sequential function chart program for a simple industrial installation

**Content**

In this 5 EC-course the student learns about digital control programs for industrial installations. The student learns the fundamentals of digital electronics and programming, digital input and output devices, programming methods, ladder logic and other control diagrams. The theory will be enhanced with programming exercises at industrial plc’s.

**Included in programme(s)**

Mechanical Engineering VWO a 3-year variant
Mechanical Engineering
Exchange Research, Design & Engineering (spring)

**School(s)**

Engineering, Life Sciences & ICT

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