Course Description – Winter 2020/21

Title | Automation Control
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Faculty | Electrical Engineering
Professor | Prof. Dr. Silvio Bachmann
ECTS | 5
Level | Master
Requirements | Basic knowledge in system control
Add. Information | Lecture include discussion, examples, exercises

Students understand structure and functionality of flexible automation systems. You learn design methods for such technical systems and solutions and could practice it in development process.

Lesson is divided in:
- Technical information 40 %
- Method knowledge 50 %
- System competence 10 %

Content
1. Introduction
2. Project management
3. Methods in development processes
4. Process analyzing
5. Sensors and actors
6. Automation devices
7. Software Development
8. Communication in Automation
9. SCADA
10. Decentral structures
11. Integration of robots