

## t.SYAT1 - System- und Automatisierungstechnik 1

**Person responsible for the course:** Urs Glauser, glsu

**Credits:** 4

**Valid for:** 2010/2011

**Last saved:** 20.08.2010 16:32

### Learning objectives:

To know

- Programming of a Programmable Logic Controller (PLC) with high level languages (C++ or similar languages)
- Communication by bus systems like Profibus, Profinet, actuator-sensor-interface (ASi), etc.
- Processing and visualisation of process data

### Course content:

- Extending PLC knowledge
- Setting up of PLC projects including different data types, number formats, mathematical functions etc.
- Measuring methods
- high level PLC programming languages
- Sequential programming languages
- Setting up distributed PLC-equipment, handling of data transmission

### Previous knowledge:

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### Teaching method:

Type of lesson:	Number of lessons per week:
Lecture	
Tutorial/Practicum	14x2L
Group teaching	
Block instruction	
Seminar	

### Assessment:

According to the table or as specified in writing by the lecture at the beginning of the semester!

Number	Type	Weighting
1	End of term exam	60%
1	Exam during the semester	20%
2	Further assessments	20%

### Language of instruction:

Deutsch

### Instruction material:

Skript

Automatisieren mit SPS - Theorie und Praxis, Zastrow Dieter, Wellenreuther, Günter; Vieweg 4. Aufl. 2008

Einführung in die Regelungstechnik, Mann Heinz, Schiffelgen Horst, Froiep Rainer, Hanser 11. Aufl. 2009

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**Comments:**

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