

t.ET2 - Elektrotechnik 2

Person responsible for the course: Jakob Lattmann, latj

Credits: 3

Valid for: 2010/2011

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Learning objectives:

- Knowing the distribution und the application of three phase current
- Knowing the principle and properties of asynchronous and synchronous motors
- Knowing the concurrence of converters and AC motors and its related characteristics
- Knowing state of the art drives and being able to select them
- Overview of signal electronics

Course content:

- Generation and transmission of three phase current
- Three phase machines, frequency equations
- Structure and behavior of asynchronous machines, operational characteristic curves
- Synchronous machines as servo drives
- Principle and application of frequency converters in connection with asynchronous and synchronous motors
- Signal electronics: diodes, operational amplifiers and its programming of functions

Previous knowledge:

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Teaching method:

Type of lesson:	Number of lessons per week:
Lecture	14x2L
Tutorial/Practicum	4x3.5L
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	80%
1	Exam during the semester	20%
	Further assessments	

Language of instruction:

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Instruction material:

Gemäss Vorgabe des Dozierenden (z.B. Vorlesungsscript oder Buch)
Aktuelle Bücher (Bekanntmachung während der Lehrveranstaltung)

Comments:

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