

t.ET2 - Elektrotechnik 2

Person responsible for the course: Jakob Lattmann, latj

Credits: 3

Valid for: 2011/2012

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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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