

Course

GE2 - Electrical Engineering 2 (Basics)

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^ General information

Long name	Electrical Engineering 2 (Basics)
Approving CModule	GE2_BaET
Responsible	Prof. Dr. Rainer Kronberger Professor Fakultät IME
Level	Bachelor
Semester in the year	summer semester
Duration	Semester
Hours in self-study	78
ECTS	5
Professors	Prof. Dr. Rainer Kronberger Professor Fakultät IME
Requirements	math, physics
Language	German
Separate final exam	Yes

Final exam

Details

written exam

Minimum standard

4.0

Exam Type

written exam

^ Lecture / Exercises

Learning goals

Knowledge

Voltage, current, resistance, inductance and capacitance power in AC circuits, analysis of AC circuits, capacitors, inductors, resonances

Skills

learn the principles of electrical currents and voltages in AC circuits

learn to calculate AC currents and voltages

learn how to analyse AC circuits

learn how to design AC circuits

Expenditure classroom teaching

Type	Attendance (h/Wk.)
Lecture	2
Exercises (whole course)	1
Exercises (shared course)	0
Tutorial (voluntary)	1

Separate exam

none

^ Practical training

Learning goals

Knowledge

Measurement of the complex electric current, voltage, power and impedance
Design of electronic AC circuits consisting of resistors, capacitors and inductors

Skills

Learn the complex interaction of voltage and current in/on electronic components in AC circuits

Learn how to design and analyse AC circuits

Learn how to use electronic measurement equipment for analysis, design and measurement of AC circuits

Learn how to display, analyse and compare measurement results

Expenditure classroom teaching

Type	Attendance (h/Wk.)
Practical training	1
Tutorial (voluntary)	0

Separate exam

none