

Course

GE1 - Electrical Engineering (Basics)

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^ General information

Long name	Electrical Engineering (Basics)
Approving CModule	<u>GE1_BaET</u>
Responsible	Prof. Dr. Rainer Kronberger Professor Fakultät IME
Level	Bachelor
Semester in the year	winter semester
Duration	Semester
Hours in self-study	132
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, power, circuits, analysis of circuits, capacitors, inductors, electrical field, magnetical field

Skills

learn the principles of electrical currents and voltages in circuits

learn to calculate curenents and voltages

learn

Expenditure classroom teaching

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

Separate exam

none

^ Practical training

Learning goals

Knowledge

Measurement of electric current, voltage, power, resistance

Design of electronic circuits consisting of resistors, capacitors and inductors

Skills

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

Learn how to design circuits

Learn how to analyse circuits

Learn how to use electronic measurement equipment

Learn how to display, analyse and compare measurement results

Expenditure classroom teaching

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

Separate exam

none