

Course

ELE - Electronics

Version: 3 | Last Change: 29.09.2019 14:28 | Draft: 0 | Status: vom verantwortlichen Dozent freigegeben

^ General information

Long name	Electronics
Approving CModule	ELE_BaMT
Responsible	Prof. Dr.-Ing. Dirk Poggemann Professor Fakultät IME
Level	Bachelor
Semester in the year	winter semester
Duration	Semester
Hours in self-study	60
ECTS	5
Professors	Prof. Dr.-Ing. Dirk Poggemann Professor Fakultät IME Prof. Dr.-Ing. Klaus Ruelberg Professor Fakultät IME
Requirements	none
Language	German, English if necessary
Separate final exam	Yes

Final exam

Details

Written exam with arithmetic and comprehension exercises, can also be held as Multiple Choice Test

Minimum standard

50% of maximum points

Exam Type

^ Lecture / Exercises

Learning goals

Knowledge

Basics in Electronics (Voltage, Current, Resistance, Sources, Kirchhoffs Laws, Alternating Current, Passive Devices, Highpass, Lowpass, Oscillator,

Transformator, Measurement of electronic Values)

Active Devices (Diode, Transistor, Operational Amplifier)

Digital Technology

A/D- and D/A-Conversion elektrischer Stromkreis

Semiconductor Memory

Transmission on Wires

Expenditure classroom teaching

Type	Attendance (h/Wk.)
Lecture	3
Exercises (whole course)	1
Exercises (shared course)	1
Tutorial (voluntary)	2

Separate exam

none