Course Manual GE2

Fundamentals of Electrical Engineering 2

Version: 4 | Last Change: 25.09.2019 11:34 | Draft: 0 | Status: vom verantwortlichen Dozent freigegeben

- General information

Long name	Fundamentals of Electrical Engineering 2	
Approving CModule	<u>GE2 BaET</u>	
Responsible	Prof. Dr. Eberhard Waffenschmidt Professor Fakultät IME	
Valid from	summer semester 2021	
Level	Bachelor	
Semester in the year	summer semester	
Duration	Semester	
Hours in self-study	60	
ECTS	5	
Professors	Prof. Dr. Eberhard Waffenschmidt Professor Fakultät IME	
Requirements	Basic Electrical Engineering Part 1	
Language	German, English if necessary	
Separate final exam	Yes	

Literature

Gert Hagman, "Grundlagen der Elektrotechnik", AULA-Verlag, ISBN 978-3-89104-747-7

Final exam	
Details	Written exam: The exam consists of three parts A, B, C: Part A ask for basic skills (knowlege and simple application) Part B ask for required skills (application and evaluation) Part C saks for extended skills (creativity and combination of the aquired knowlede) Shortly after the first exam date follwowing the lecture an additional (3rd.) written exam is scheduled.
Minimum standard	Grade 4,0
Exam Type	EN Klausur

- Lecture / Exercises

Special rec
none
Accompany material
Separate ex

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

irements

Accompanying material	- Lecture presentaions (pdf format) - Script for exercises
Separate exam	No

earning go	als	Special requirement	S
Goal type	Description	none	
Knowledge	The students perform project-like experiments in the lab. The experiments relate to each other. The aim of the pre-defined experiments is to understand and evaluate the function of a wireless	Accompanying material	- Explanations of the lab expereiments and report templates
	power transmission system. For this purpose the students build themselves from simple materials the components, which are	Separate exam	Yes
	investigated, e.g. planar inductor coils.	Separate exam	
Expenditure	classroom teaching	Exam Type	EN praxisnahes Szenario bearbeiten (z.B. im Praktikum)
Туре	Attendance (h/Wk.)	Details	- Final discussion afte each lab date
Practical train	ing 1		- Writing of lab report
Tutorial (volu	ntarv) 0	Minimum standard	Succesful participation

© 2022 Technische Hochschule Köln