

Course

ASS - Analogue signals and systems

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^ General information

Long name	Analogue signals and systems
Approving CModule	ASS_BaET
Responsible	Prof. Dr. Andreas Lohner Professor Fakultät IME
Level	Bachelor
Semester in the year	winter semester
Duration	Semester
Hours in self-study	78
ECTS	5
Professors	Prof. Dr. Andreas Lohner Professor Fakultät IME
Requirements	basic courses mathematics and electrical engineering
Language	German
Separate final exam	Yes

Final exam

Details

study-accompanying tests and a final exam

Minimum standard

50 % of the maximum score

Exam Type

study-accompanying tests and a final exam

^ Lecture / Exercises

Learning goals

Knowledge

Introduction to signals and systems
convolution in time domain
Fourier transform of analog signals
correlation functions
system representation in frequency domain; frequency response
Laplace transform; transfer function; stability of a system
Bode diagram
ideal analogue filter
sampling of analog signals

Skills

Analysis and modeling of electrical networks

Expenditure classroom teaching

Type	Attendance (h/Wk.)
Lecture	3
Exercises (whole course)	0
Exercises (shared course)	1
Tutorial (voluntary)	1

Separate exam

Exam Type

solving exercises within limited functional / methodical scope

Details

There are at max. three unannounced practice appointments with one exercise each for the current substance. There are max. two points per test achievable, which will be credited to the candidate at the exam, if at least the grade 4.0 (without test points) would have been achieved.

Minimum standard

At the exam, at least 50% of the points are to pass.