

Course Manual 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 Löhner
Professor Fakultät IME

Valid from winter semester
2021/22

Level Bachelor

Semester in the year winter semester

Duration Semester

Hours in self-study 78

ECTS 5

Professors Prof. Dr. Andreas Löhner
Professor Fakultät IME

Requirements basic courses
mathematics and
electrical engineering

Language German

Separate final exam Yes

Literature

Carlson, G. E.: Signal and Linear System Analysis,
John Wiley & Sons, Inc.

Girod, B.: Einführung in die Systemtheorie, Teubner
Verlag

Lücke, H. D.: Signalübertragung, Springer-Verlag

von Grünigen, D. Ch.: Digitale Signalverarbeitung,
Fachbuchverlag Leipzig

Final exam

Details study-accompanying
tests and a final exam

Minimum standard 50 % of the maximum
score

Exam Type EN Klausur

– Lecture / Exercises

Learning goals

Goal type	Description
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

Special requirements

none

Accompanying material

Lecture slides as pdf document
Exercises with sample solution
Former exams
Literature on the topic

Separate exam

Yes

Separate exam

Exam Type

EN Übungsaufgabe mit fachlich / methodisch eingeschränktem Fokus lösen

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.