

Course

EM2 - Electronic Media 2

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^ General information

Long name	Electronic Media 2
Approving CModule	EM2_BaMT
Responsible	Prof. Dr.-Ing. Klaus Ruelberg Professor Fakultät IME
Level	Bachelor
Semester in the year	winter semester
Duration	Semester
Hours in self-study	60
ECTS	5
Professors	Prof. Dr.-Ing. Klaus Ruelberg Professor Fakultät IME
Requirements	Basic knowledge mathematics: Basic knowledge integral and differential mathematics, complex numbers Electronics, Electronic Media 1, Mathematics 1
Language	German
Separate final exam	Yes

Final exam

Details

Exam - The students apply their knowledge to several practical exercises. Furthermore, they describe and explain some of the technical concepts which were presented in the lecture.

Minimum standard

Simple calculations of SNR (Signal to Noise Ratio) and data rates of audio and video signals

Describe concepts of digitalization and compression of audio and video signals

Exam Type

Exam - The students apply their knowledge to several practical exercises. Furthermore, they describe and explain some of the technical concepts which were presented in the lecture.

^ Lecture / Exercises

Learning goals

Knowledge

Basic concepts of electronic communication techniques and signal theory

Basic concepts of electronic TV and image scanning/sampling

Analog video technology

Digital video technology

Skills

Analysis and description of analogue and digital systems for sampling and processing of audio and video signals

Expenditure classroom teaching

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

Separate exam

none

^ Practical training

Learning goals

Knowledge

Illustration of teaching content and technical phenomena

Skills

Exemplary application of the course contents to practical tasks

Expenditure classroom teaching

Type	Attendance (h/Wk.)
Practical training	3
Tutorial (voluntary)	0

Separate exam

none