

## Course

# AVT - Audio and Video Technologies

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### ^ General information

<b>Long name</b>	Audio and Video Technologies
<b>Approving CModule</b>	<a href="#">AVT MaMT</a> , <a href="#">AVT MaTIN</a>
<b>Responsible</b>	Prof. Dr.-Ing. Klaus Ruelberg Professor Fakultät IME
<b>Level</b>	Master
<b>Semester in the year</b>	winter semester
<b>Duration</b>	Semester
<b>Hours in self-study</b>	78
<b>ECTS</b>	5
<b>Professors</b>	Prof. Dr.-Ing. Klaus Ruelberg Professor Fakultät IME
<b>Requirements</b>	none
<b>Language</b>	German, English if necessary
<b>Separate final exam</b>	Yes

## Final exam

### Details

Standard case (with large number of examinations sK)

In a final examination (oral, optionally written), the students demonstrate their competences in summary form. The examination comprises exemplary subareas of the course

### Minimum standard

50 % of the maximum score

### Exam Type

Standard case (with large number of examinations sK)

In a final examination (oral, optionally written), the students demonstrate their competences in summary form. The examination comprises exemplary subareas of the course

## ^ Lecture / Exercises

### Learning goals

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#### Knowledge

Audio and video source coding

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Channel models, channel coding (FEC & digital modulation principles)

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Broadcast transmission systems (DVB - Digital Video Broadcasting)

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#### Skills

implement audio and video coding methods in hard and software

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develop algorithms and methods for audio and videocoding

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develop and implement digital broadcasting systems

### Expenditure classroom teaching

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

### Separate exam

none

