

# Course Manual TST

Audio Engineering

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## – General information

**Long name** Audio Engineering

**Approving CModule** TST BaMT

**Responsible** Prof. Dr.-Ing. Ulrich  
Reiter  
Professor Fakultät IME

**Valid from** summer semester 2022

**Level** Bachelor

**Semester in the year** summer semester

**Duration** Semester

**Hours in self-study** 60

**ECTS** 5

**Professors** Prof. Dr.-Ing. Ulrich  
Reiter  
Professor Fakultät IME

**Requirements** - knowledge of the  
human hearing  
- basic mathematical  
skills, eg logarithmic  
representation of  
quantities

**Language** German, English if  
necessary

**Separate final exam** Yes

## Literature

Thomas Görne, Tontechnik, Hanser Verlag 2015

Stefan Weinzierl (Hrsg.), Handbuch der  
Audiotechnik, Springer Verlag 2008

Michael Dickreiter et al., Handbuch der  
Tonstudientechnik (Bd. 1 u. 2), K.G. Saur Verlag 2008

## Final exam

### Details

The exam consists of a technical discussion regarding topics dealt with in the lectures and practical lessons. Students will be confronted with typical recording and studio situations that require a solution for which knowledge and competences as described in Learning Outcomes LO1 and LO2 will be required.

**Minimum standard**

- students demonstrate an overview over workflows, methods and equipment as used in audio engineering and are able to describe them using the correct technical terms

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**Exam Type**

EN mündliche Prüfung, strukturierte Befragung

## – Lecture / Exercises

### Learning goals

<b>Goal type</b>	<b>Description</b>
Knowledge	<ul style="list-style-type: none"><li>- sound propagation / room acoustics</li><li>- signals and levels</li><li>- microphone technology</li><li>- studio equipment</li><li>- digital audio technology</li><li>- effects</li></ul>

### Special requirements

none

<b>Accompanying material</b>	electronic slides as presented during the lectures
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<b>Separate exam</b>	No
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### Expenditure classroom teaching

<b>Type</b>	<b>Attendance (h/Wk.)</b>
Lecture	3
Tutorial (voluntary)	0

## – Practical training

### Learning goals

Goal type	Description
Knowledge	- knowledge of typical workflows and organizational structures of audio recordings
Skills	- competent use of digital audio workstations (DAWs) - competent use of audio mixing desks - competent use and choice of suitable microphones for specific recording situations

### Expenditure classroom teaching

Type	Attendance (h/Wk.)
Practical training	2
Tutorial (voluntary)	0

### Special requirements

none

<b>Accompanying material</b>	- preparatory task sheets (downloadable electronic documents) - lab exercise manual (downloadable electronic documents)
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<b>Separate exam</b>	Yes
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### Separate exam

<b>Exam Type</b>	EN Projektaufgabe im Team bearbeiten (z.B. im Praktikum)
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<b>Details</b>	- online questionnaire before the lab exercise - written protocol for every lab exercise - presentation of sound recording project in front of fellow students at the end of the term
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<b>Minimum standard</b>	- students achieve at least 50% correct answers in online questionnaire before lab exercise - students turn in comprehensible written protocols - students successfully participate in at least 5 of 6 lab exercises
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