

Course Manual VAE

Virtual Acoustic Environments (VAE)

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– General information

Long name Virtual Acoustic Environments (VAE)

Approving CModule [VAE MaCSN](#),
[VAE MaMT](#), [VAE MaTIN](#)

Responsible Prof. Dr.-Ing. Christoph Pörschmann
Professor Fakultät IME

Valid from summer semester 2021

Level Master

Semester in the year summer semester

Duration Semester

Hours in self-study 114

ECTS 5

Professors Prof. Dr.-Ing. Christoph Pörschmann
Professor Fakultät IME
wissenschaftliche Mitarbeiter Akustik
(derzeit: Arend, Lübeck, Dziwis, Bau)

Requirements Know-how on Acoustics and audio signal processing

Language English

Separate final exam Yes

Literature

Rozinska, A. "Immersive Sound"

Blauert, J. "Spatial Hearing"

Final exam

Details The results of the student project, the presentation and of the demonstration play a relevant role.

Minimum standard A simple system from the field of virtual acoustic environments could be set up, put into operation and tested with the help of the following tools (with assistance)

Exam Type EN mündlicher Ergebnisbericht (Vortrag / Präsentation)

– Lecture / Exercises

Learning goals

Goal type	Description
Knowledge	The basic concepts of headphone-based or loudspeaker-based VR-systems are introduced

Special requirements

none

Expenditure classroom teaching

Type	Attendance (h/Wk.)
Lecture	1
Tutorial (voluntary)	0

Accompanying material undefined

Separate exam No

– Lecture / Exercises

Learning goals

Goal type	Description
Knowledge	In one specific topic of Virtual Acoustic Environments the students shall get deep know-how on the technology and apply it to a practical problem and present the results

Special requirements

none

Accompanying material	lecture slides, further literature
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Separate exam	No
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Expenditure classroom teaching

Type	Attendance (h/Wk.)
Project	1
Tutorial (voluntary)	0