

Course Manual AVW

Visual and Auditive Perception

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– General information

Long name Visual and Auditive Perception

Approving CModule [AVW BaMT](#),
[AVW BaOPT](#)

Responsible Prof. Dr. Dietmar Kunz
Professor Fakultät IME im Ruhestand

Valid from winter semester
2020/21

Level Bachelor

Semester in the year winter semester

Duration Semester

Hours in self-study 36

ECTS 3

Professors Prof. Dr. Dietmar Kunz
Professor Fakultät IME im Ruhestand
Prof. Dr.-Ing. Christoph Pörschmann
Professor Fakultät IME

Requirements none

Language German

Separate final exam No

Literature

Christoph von Campenhausen: „Die Sinne des Menschen“

David H. Hubel: „Auge und Gehirn – Neurophysiologie des Sehens“

Zwicker, E., Feldtkeller, R. (1967). „Das Ohr als Nachrichtenempfänger,“ S. Hirzel Verlag, Stuttgart.

Blauert, J. (1999), „Spatial Hearing,“ MIT Press, Cambridge, Mass.

Blauert, J., Xiang, N. (2008). „Acoustic for Engineers – Troy Lectures,“ Springer Verlag, Heidelberg.

Weinzierl, Stefan (2008). „Handbuch der Audiotechnik,“ Springer Verlag, Berlin.

– Lecture / Exercises

Learning goals

Goal type	Description
Knowledge	visual perception structure of the visual system perception of brightness perception of contrast spatial resolution temporal resolution colour perception perception of spatial depth
Knowledge	auditory perception human auditory system loudness perception pitch perception spatial hearing mechanisms of localisation distance perception cocktail-party effect precedence effect / sum localisation spectral and temporal masking
Knowledge	audiovisual interaction audiovisual precedence effect Mc Gurk effect
Skills	specify requirements for audiovisual media systems
Skills	assess performance of audiovisual systems with respect to human perception

Expenditure classroom teaching

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

Special requirements

none

Accompanying material	electronic presentation sheets, electronic tutorials literature videos (in prep.)
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Separate exam	Yes
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Separate exam

Exam Type	EN Übungsaufgabe mit fachlich / methodisch eingeschränktem Fokus unter Klausurbedingungen lösen
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Details	regular short written exams (5 min) at the end of the lecture
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Minimum standard	at least 50% of points after subtraction of the number of points that ist achievable on average by pure random guess.
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