Ider	ntification number	Workload	Credits	Frequency of occurrence	Duration
		Workload	Credits	rrequency of occurrence	Duration
		180h	6	WS	1 Semester
1	Type of lessons	Cont	act times	Self-study times	Intended group size
	a) lecture b) exercises	'	20 h 53 h	107h (Preparation and post-processing of lectures, practical and exam)	<ul><li>a) 8 students</li><li>b) 8 students/advisor</li></ul>
2	Aims of the modu	le and acqu	ired skills		
	to understand psy become familiar w hearing-impaired	chophysical vith basic sul patients with	performanc bjective and h focus to ne	e and pathophysiological ch objective hearing testing pr	tral auditory processing in order anges in hearing. They should ocedures that can be applied to athophysiological changes of the
3	Contents of the module				
	The basic knowledge of normal and disturbed peripheral and central hearing processing should be acquired by developing the essential sensory, neurophysiological and psychophysical processes, also taking into account aspects of maturation. The knowledge will be deepened by the application of selected subjective and objective hearing test methods including the registration of otoacoustic emissions as well as evoked early and late evoked potentials (incl. P300, MMN).				
4	Teaching/Learning Methods Seminar; Instructions for independent practical work, specialist presentation				
5	Requirements for participation Enrollment in the Master's degree course "Experimental and Clinical Neurosciences" at the University of Cologne Content: Basic knowledge of anatomy, physiology and pathophysiology of the eye and visual pathway as well as of the peripheral and central auditory organ. Basic knowledge of sensory and nerve physiology as well as psychophysics. If applicable, knowledge of peripheral hearing disorders as well as				
	auditory processing and perception disorders.				
6	Type of module examination  Preliminary Examinations: Regular participation and active collaboration  Final examination: paper				
7	Requirement for the allocation of credits Successful submission of the paper				
8	Compatibility with other Curricula no				
9	Significance of the module mark for the overall grade				
	In the Master's de also appendix of t	-	•		es": 6 % of the overall grade (se
10	Teacher: Prof. Dr. r	t <b>or:</b> Prof. Dr. er. nat. Marti	rer.nat. Ma in Walger; Pro		in.walger@uni-koeln.de ster (Jean Uhrmacher Institute); 7832969; pascale.sandmann@uk-

## 11 Additional information

## Literature:

- Hellbrück J: Hören, Physiologie, Psychologie und Pathologie. Hogrefe Publishing 1993
- Hoth S, Mühler R, Neumann K und Walger M: Objektive Audiometrie im Kindesalter, Springer Publishing 2014
- Picton T: Human Auditory Evoked Potentials. Plural Publishing 2011