

Only the german version of the module description as part of the study regulations is legally binding.

Module name	Acoustics specialization - Psychoacoustics
Module number	INF-25-Ma-NSP-AKU2
Responsible lecturer	Prof. Dr. Ercan Altinsoy ercan.altinsoy@tu-dresden.de
Qualification objectives	Students have in-depth knowledge of methodology and can independently plan applications using typical computer science methods, assess the corresponding challenges and implement them successfully. They are able to understand problems in psychoacoustics and understand how to develop solutions using computer science approaches and are qualified to work and lead in interdisciplinary projects and teams.
Content	Contents of the module are psychoacoustics, in particular the hearing organ as a sound transducer, auditory perception characteristics, regular relationships between acoustic and auditory events as well as aurally appropriate examination of acoustic signals such as speech, product sounds and noise.
Teaching and learning methods	The module comprises lectures of 2 SWS, exercises of 1 SWS and the self-studium. The language of instruction for the lectures and exercises may be German or English and will be determined by the lecturer at the beginning of each semester and announced in the usual manner.
Prerequisites for participation	The competences to be acquired in the module INF-25-Ma-NGR-AKU Acoustics Basics are a prerequisite for the Diploma program in Computer Science.
Applicability	The module is a compulsory module of the non-computer science supplement Acoustics in the Diplom degree program in Computer Science. The module fulfills the prerequisites for the modules listed under prerequisites for participation.
Requirements for earning credit points	The credit points are earned if the module examination is passed. The module examination consists of a written examination lasting 90 minutes. The examination language may be German or English and will be specified by the lecturer at the beginning of each semester and announced in the usual manner.
Credit points and grades	6 credit points can be earned through the module. The module grade corresponds to the grade of the examination.
Module frequency	The module is offered every winter semester.
Workload	The total workload is 180 hours.
Module duration	The module comprises one semester.