Module name	**Sound design**
Module number	CMS-TRK-SD
Senior Lecturer	Prof. Dr. Ercan Altinsoy ercan.altinsoy@tu-dresden.de
Qualification objectives	Students are familiar with and understand the technological foundations, basic principles and technical language of sound design, in particular the design of sounds and sounds, as well as generative AI tools for audio applications. They are able to shape audible signals, make environmental phenomena and events audible, convey messages and provoke or amplify affective, cognitive and/or psychomotor reactions through audible signals. They are able to understand acoustics and sound design issues and understand how to develop solutions that incorporate computing approaches. Students can lead and work in interdisciplinary projects and teams.
Contents	The content of the module is sound design methods, in particular the relationship between sound signals as carriers of information and the associated hearing perceptions and, in this context, the consideration of perception aspects of sound.
Forms of teaching and learning	The module includes lectures of 2 SWS, 20-hour projects and self-study. The language of the lectures and the projects will be English.
Eligibility for participation	No knowledge is required.
Usability	In the Computational Modeling and Simulation Masters Course, the module is a compulsory voting module in the Track Applied Artificial Intelligence, to be selected in accordance with Annex 2 to the Specific Examination Regulations. The module cannot be chosen in the Master's Course Computational Modeling and Simulation if this or a module with substantially the same content from a Course with which the entry conditions under § 3 of the Studienordnung have been met has already been completed. The module provides the pre-requisites for the modules it designates under the pre-requisites for participation.
Conditions for the award of credits	Credits are awarded when the module test is passed. The module test consists of a complex performance of 20 hours. The language of the test will be English.
Credits and marks	The module allows 5 credit points to be obtained. The module score corresponds to the test performance score.
Frequency of the module	The module is offered every winter semester.
Workload	The total workload is 150 hours.

Duration of the module	The module covers 1 semester.