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

Module name	**Team Assignment Computational Metrology**
Module number	CMS-TRK-TEA-CM
Senior Lecturer	Prof. Dr. Jürgen Czarske juergen.czarske@tu-dresden.de
Qualification objectives	Students are able to work on a complex research-related project that requires competences from several fields of computer-based measurement technology and to solve a larger, typically interdisciplinary, task within a group, from the field of computer-based measurement technology intelligence. Students are proficient in literature research and the use of scientific sources of information, and have both in-depth expertise and wide-ranging methodological and interpersonal skills in project management and teamwork.
Contents	The content of the module is to analyse and solve a problem in the field of computer-based measurement research, for example by means of physical or numerical experiments using deep neural networks to solve the inverse problem.
Forms of teaching and learning	The module includes 8 SWS projects and self-study. The language of 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 60 hours. The language of the test will be English.
Credits and marks	The module allows for the award of 10 credit points. The module score corresponds to the test performance score.
Frequency of the module	The module is offered every semester.
Workload	The total workload is 300 hours.
Duration of the module	The module covers 1 semester.