Module name	**Computational Environmental Science Teamproject**
Module number	CMS-TRK-TEA-CES
Senior Lecturer	Prof. Dr. Niels Schütze niels.schuetze@tu-dresden.de
Qualification objectives	Students are able to work on a complex research-related project that requires competences in several fields of environmental science. Students are able to solve a larger, typically interdisciplinary, challenge in the field of environmental science within a group of 2-4 people. They are proficient in literature research and the use of scientific information sources, and have in-depth expertise as well as extensive methodological and interpersonal skills in project management and teamwork.
Contents	The content of the module is the multidisciplinary editing, application and communication of a topic at the student's choice in the fields of environmental sensors, environmental data analytics, remote sensing, numerical and algorithmic modelling methods in environmental engineering and natural sciences, informatics methods for processing data and performing simulations, environmental data visualisation, decision support or machine learning.
Forms of teaching and learning	The module includes 180-hour projects and self-study. The teaching language of the projects can be German or English and will be specifically determined by the teacher at the beginning of each semester and communicated in the usual way.
Eligibility for participation	No knowledge is required.
Usability	The module is a compulsory module in Track Computational Environmental Science and Engineering in the Masters Course Computational Modeling and Simulation. 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 70 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 winter semester.
Workload	The total workload is 300 hours.
Duration of the module	The module covers 1 semester.