Module name	**Computational Environmental Applications**
Module number	CMS-TRK-EA
Senior Lecturer	Prof. Dr. Niels Schütze niels.schuetze@tu-dresden.de
Qualification objectives	Students have an in-depth overview of current research topics and developments in environmental computing. They can independently deepen their knowledge in this field and analyse and categorise complex issues. They are able to tailor interdisciplinary content to target groups, present it orally in a structured way and participate competently in expert discussions.
Contents	The module will cover topical issues and ongoing research in environmental computing based on expert input, reading and discussions.
Forms of teaching and learning	The module includes 4 SWS seminars and self-study. The teaching language of the seminars may be German or English and will be specifically determined by the teacher at the beginning of each semester and announced in the usual manner.
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 portfolio of 30 hours. The language of the exam will be German or English, at the student's choice.
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.