

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

Module name	Geoinformatics specialization
Module number	INF-25-Ma-NVE-GEO
Responsible lecturer	Prof. Dr. Lars Bernard lars.bernard@tu-dresden.de
Qualification objectives	Students have in-depth knowledge of the fundamentals, the basic principles and the technical language and are able to survey the areas of application of geoinformation systems and geodatabases in practice and to master these instruments independently. They have methodological competence in the development of applications for geoinformation systems and geodatabases as well as in project-based teamwork.
Content	The content of the module is the development of applications based on geoinformation systems and geodatabases for the collection, management and analysis of geodata.
Teaching and learning methods	The module comprises lectures of 0.5 SWS, exercises of 1.5 SWS and self-study. The language of instruction for the lectures and exercises is German.
Prerequisites for participation	In the Diploma degree program in Computer Science and in the Master's degree program in Computer Science, the competences to be acquired in the module INF-25-Ma-NGR-GEO Geoinformatics Basics are a prerequisite.
Applicability	The module is a compulsory module of the non-computer science supplement Geoinformatics in the Diploma program Computer Science in the main study program. In the Master's degree program in Computer Science, the module is an elective module of the supplement in the Open Track, which must be selected in accordance with Annex 2 to the examination regulations. The module can only be selected in the Master's degree program Computer Science in combination with the module INF-25-Ma-NGR-GEO Geoinformatics Basics. The module cannot be selected in the Master's degree program in Computer Science if this module or a module with essentially the same content from a degree program in which the admission requirements according to Section 3 of the study regulations have already been met has already been completed. The module also creates 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 complex performance of 60 hours. The examination language is German.
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 summer semester.

Workload	The total workload is 180 hours.
Module duration	The module comprises one S emester.