

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

Module name	Geoinformatics Specialization - Spatial Data Infrastructures
Module number	INF-25-Ma-NSP-GEO1
Responsible lecturer	Dr. Stephan Mäs stephan.maes@tu-dresden.de
Qualification objectives	Students have a sound overview of geodata infrastructures and the associated technologies. They have methodological skills for the development of geoinformation services and e for the use and adaptation of corresponding software products.
Content	Contents of the module are the organizational and technical concepts of geodata infrastructures, interoperability for geoinformation, in particular standardized data models and data formats as well as e the development of geodata infrastructures based on interoperable geoinformation services.
Teaching and learning methods	The module comprises lectures of 2 SWS, exercises of 2 SWS and the selfbststudium. The language of instruction for the lectures and exercises is English.
Prerequisites for participation	In the Diploma degree program in Computer Science, the competencies to be acquired in the modules INF-25-Ma-NGR-GEO Geoinformatics Basics and INF-25-Ma-NVE-GEO Geoinformatics Specialization, in particular knowledge of geodata structures, geodatabases, analysis of geobjects and geoinformation systems, are required.
Applicability	The module is a compulsory module of the non-computer science supplement Geoinformatics in the Diploma degree program in Computer Science. The module dul 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 an ungraded complex assignment of 100 hours. The examination language may be German or English and will be specified by the lecturer at the beginning of each semester and announced in the usual manner.
Credit points and grades	6 credit points can be acquired through the module. The module examination is assessed as "passed " or "failed".
Module frequency	The module is offered every winter semester.
Workload	The total workload is 180 hours.
Module duration	The module comprises one semester.