

Module	Ground Water
Module Number	MHSE 29 (BIW-MA-ABCD-01)
Responsible lecturer	Prof. Dr. Andreas Hartmann andreas.hartmann@tu dresden.de
Qualification Objectives	The students are able to identify flow and transport processes in groundwater and its storage behavior, to apply basic calculation and evaluation methods and to understand the functioning of numerical solution methods.
Contents	The content of the module is hydrogeological and geohydraulic basics, flow and mass transport processes in aquifers as well as their storage capacity and questions of water balance and water quality. Further contents of the module are the basics of the structure of the underground space, the definition of its hydrogeological parameters and the quantitative description of the relevant processes.
Teaching and Learning	2 SWS lecture, 2 SWS exercise, self-study.
Requirements for participation	None.
Applicability	The module is a compulsory module in the Master's programme in Water Security and Global Change. The module is one of 17 elective modules in the Master's program in Hydro Science and Engineering, of which modules totaling 50 credit points are to be chosen.
Requirements for the award of credit points	The credit points are earned when the module examination is passed. The module exam consists of a written exam of 90 minutes. The exam language is English.
Credit Points and Grades	5 credit points can be earned through the module. The module grade corresponds to the grade of the examination.
Frequency of Module	The module is offered every winter semester.
Effort	The total workload is 150 hours.
Duration of the module	The module lasts one semester.