

Module Nr.	Credits	Workload	Semester	Frequency	Duration
SE-C-4	5 CP	150 h	1	Yearly (WS)	1 Semester
<b>Courses</b>			<b>Contact time</b>	<b>Self-study</b>	<b>Group size</b>
Groundwater Hydraulics			4 h/week	90 h	50 Students
<b>Groundwater Hydraulics</b>					
<b>Learning outcomes</b>					
After completion of this module, the students will					
<ul style="list-style-type: none"> <li>• be able to describe and evaluate groundwater flow and conservative mass transport in the subsurface.</li> <li>• know methods of experimental investigation and determination of hydraulic parameters under different boundary conditions, and can derive and evaluate these mathematically.</li> <li>• be familiar with the evaluation and interpretation of groundwater hydraulic parameters and use them to deal with classical hydrogeological problems.</li> </ul>					
<b>Content</b>					
<ul style="list-style-type: none"> <li>• Methods for the collection and evaluation of hydraulic parameters (Darcy-tests, pump tests, Slug&amp;Bail tests)</li> <li>• Conveyance of knowledge about groundwater flow and the construction of groundwater level plans</li> <li>• Execution and evaluation of pumping tests by means of graphical and analytical solutions</li> <li>• Practical tasks for lowering the groundwater level through well systems in excavation pits or calculation of well yield</li> </ul>					
<b>Teaching Methods / Language</b>					
Lectures with accompanying calculation exercises / English					
<b>Modes of assessment</b>					
Written examination (60 minutes)					
<b>Requirements for the award of credit points</b>					
Passing the written examination					
<b>Module applicability (in other study programs)</b>					
Master Geosciences					
<b>Weight of the mark for the final score</b>					
4.17 %					
<b>Module coordinator and lecturer(s)</b>					
Prof. Dr. Wohnlich					
<b>Other information</b>					
Relevant literature and specific study material will be supplied at the beginning of the lectures.					