

Georg-August-Universität Göttingen		6 C 6 WLH
Module M.Geo.153: Hydrogeological Investigation Methods		
Learning outcome, core skills: The course focuses on innovative investigation and monitoring techniques. Both integral and high resolution point scale, non-invasive and invasive investigation techniques are presented, and scale-heterogeneity relationship issues are discussed. Innovative equipment providing access to the subsurface, innovative tools allowing groundwater sampling and parameter estimation, innovative subsurface measuring, investigation, characterization and monitoring methods, strategies and approaches.		Workload: Attendance time: 70 h Self-study time: 110 h
Course: M.Geo.153.LV-1 Investigation Techniques and Monitoring (Lecture, Exercise) <i>Course frequency: each winter semester</i>		2 WLH
Examination: Written examination (60 minutes) M.Geo.153.1: Investigation Techniques and Monitoring		2 C
Course: M.Geo.153.LV-2 Well Design and Construction (Lecture) Lecturer: Prof. Dr. Hu Rui. The lecture will be held as a block course. <i>Course frequency: each winter semester</i>		1 WLH
Examination: Written examination (30 min.) or oral exam (approx. 30 min.) M.Geo.153.2: Well Design and Construction		1 C
Course: M.Geo.153.LV-3 Advanced Hydrogeological Investigation Techniques (Lecture) Lecturer: Dr. Ralf Brauchler. The lecture will be held as a block course. <i>Course frequency: each summer semester</i>		1 WLH
Examination: Written examination (30 min.) or oral exam (approx. 30 min.) M.Geo.153.3: Advanced Hydrogeological Investigation Techniques		1 C
Course: M.Geo.153.Ue Field Exercise Hydrogeology (Exercise) <i>Course frequency: Block course after the lecture period in the summer semester jedes Sommersemester</i>		2 WLH
Examination: Term Paper (max. 10 pages) M.Geo.153.4: Feldkurs Hydrogeologie		2 C
Examination requirements: Theory and practical application of hydrogeological investigation and monitoring techniques		
Admission requirements: basic knowledge in hydrogeology and mathematics	Recommended previous knowledge: none	
Language: German, English	Person responsible for module: Prof. Dr.-Ing. habil. Thomas Ptak-Fix	

Course frequency: once a year	Duration: 1 semester[s]
Number of repeat examinations permitted: twice	Recommended semester: from 1
Maximum number of students: 15	
Additional notes and regulations: Compulsory module for the certification of the specialization in hydrogeology.	