

Nr.	4BAUMA-40			
Module title	Water challenges in a changing world			
Person responsible for module	Univ. -Prof. Dr.-phil. habil. Jorge Leandro			
Lecturer	Various (lecture series)			
Faculty	4			
Compulsory/Elective	Choice compulsory			
Module duration	1 Semester			
Frequency	WiSe			
Recommended semester	-			
Teaching language	English			
Credit point (CP)	6			
SWS	4			
Attendance study	60 h			
Self-study	120 h			
Workload	180 h			
Teaching and learning form	If applicable, events/module elements	Group-size	SWH	<i>if applicable Workload/ CP</i>
Lectures with integrated exercises		20	4	6
Services	Form			Duratio n/ Extent <i>CP, if appli cable</i>
Exam performances	Preparation and presentation of a scientific poster			15 min
Course credits	Online Tests using Moodle			30 h
Qualification goals	<ul style="list-style-type: none"> • Students acquire an understanding of the importance of water in a changing climate. • The students acquire competences for the classification of the role of water in regional as well as in global issues. • Students correctly reproduce the main aspects of the topics they have chosen. • Students interpret these aspects logically and solve appropriate challenges and online tests. • Students correctly classify their respective contents in discussions with their fellow students and the teachers and critically compare different objectives with each other (e.g. environmental protection vs. flood protection). • Students design a scientific poster and thus combine the learned knowledge from self-study with the results from analysis/discussions to a synthesis and come to an evaluation. 			
Contents	<ul style="list-style-type: none"> • Water quality and resources • Water pollution and microplastics • Urban flood events • Resilience and adaptivity • Disaster mitigation and hazard communication. 			
Applicability in the following courses of study	Civil Engineering Master			
Prerequisites for participation	None			
Prerequisites for the award of performance point	<p>Project presentation of a scientific poster (15 min) prepared in independent group work and successful participation in online tests as preliminary examination requirements.</p> <p>The evaluation is based on 1/3 of the total points each on a) the quality of the scientific poster, b) the quality of the presentation and c) the answering of the exam questions.</p>			
Literature	<ul style="list-style-type: none"> • Diverse, will be given by the different lecturers of the lecture series 			

Other information	
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