Minor Water Quality Analysis (AWQA)						
Coordinator:		POA	credits:		15	
Elements	EC	Name	Mode of Exam	Exam Period	Literature	
AWQA01	6	Assessment + Future monitoring	Assessment (report and presentation)	T2	Moss, B. 2018. Ecology of freshwaters: Earth's Bloodstream. John Wiley And Sons Ltd. EAN 9781119239406 Practical guides and additional documents will be provided on Canvas.	
AWQA02	3	Advanced aquatic ecology	Written exam	T2		
AWQA03	2	International Institutions	Written exam	T1		
AWQA04	4	Sampling methods, species identification & Ecological assessment + Monitoring cycle	Report and presentation	T2		
Entrance requirements:		Standard requirements for all international students (min.180 EC background in relevant field of study, appropriate level of English)				
		During this module the student will	describe the ecological s	status of a D	Outch waterbody according	

Professional task:	I task: to the European Water Framework Directive (WFD) and analyse the results in contrast with a reference area. Based on this information the student designs a measure for improvement of the biotic quality, including a monitoring program.		
Role:	Practical researcher monitoring and evaluation		
Methods:	Lectures, trainings, assignments, excursions, fieldwork, team work and self-study		
Fields of expertise:	Learning objectives for the student. The student is able to:		
Aquatic organisms and monitoring	 Determine aquatic organisms up to species level. Evaluate and report results of monitoring on professional level. Evaluate ones role as practical researcher monitoring and evaluation in a broader professional perspective. Design a monitoring plan 		
Policies	 Describe impacts of main water policies for management of aquatic ecosystems. Perform ecological assessment of field data according to WFD and is able to evaluate the methodology. Design measures according to the WFD. 		

Aeres competencies

- 2. To cooperate
 4. To research
- 6. To organise

10. To appreciate the global perspective

Final qualifications

- This minor meets the following final qualifications from the bachelor programme of Applied Biology: 1. Design, execute and report biological applied research from the perspective of organism- and population level.
- 3. Appreciate knowledge of biological specialisation, apply latest developments and obtain new knowledge.
- 4. Being able to work on a biological problem in a project-based approach.