Module name			Research internship in the field of master's thesis Analytical chemistry							
Abbreviation			MVMT							
		Duration 1 semester	Semester of stud	ly	Credits 10		M. S Su Fo (he M. S	Assignment curriculum M. Sc. Chemistry Subject: AnC Focus: M. M. (here subject: AC or OC) M. Sc. Chemical Biology Subject: SoC		
Module structure										
No.	Course			Туре		СР	sws	Presence- time	Own- study	
1	Resear	ch internship		Р		7	10	150 h	60 h	
2	Semina	r on the resea	arch internship	s		3	2	30 h	60 h	
			T	otal		10	12	180 h	120 h	
Person(s) responsible for the module			Dr. Sebastian Zühlke							
Lecturer(s)			Dr. Sebastian Zühlke							
Language			English							
Requirements according to examination regulations			Participation requirement for the research internship in the major (Chemistry) or in the subject of the master thesis (Chemical Biology) is: The existence of the proof of expertise according to § 5 of the Chemicals Prohibition Ordinance (ChemVerbotsV) as well as the previous successful participation in 4 elective practicals and in at least 2 elective lectures, which must be part of the major field of study for chemistry students. In addition, students must have participated in the final examinations of at least 4 further compulsory elective lectures.							
Recommended requirements			Participation "Analytical Chemistry - Water and Soil I" and "Introduction to Mass Spectrometry".							
Study/examination achievements			Module examination: Experimental protocol and oral presentation Repeatability and rotation according to PO.							
Learning objectives			Students acquire knowledge of modern sample preparation and separation methods as well as the functioning of analytical instruments. They independently carry out small							

	research projects or research sub-projects using common methods of analytical chemistry. They deepen their ability to present their results appropriately in the form of a written paper and a lecture in accordance with the methods commonly used in analytical chemistry.				
Learning outcomes and competencies	 Upon successful completion of this module, students will be able to, use the basic analytical separation methods and sample preparations. operate the available equipment (especially mass spectrometers) and evaluate the data obtained. to apply the acquired theoretical knowledge and subject-specific practical knowledge for the practical solution of analytical problems from the subfield of analysis of environmental pollutants and natural substances. to place the obtained scientific results in the context of the already published findings in analytical chemistry as well as to summarize the obtained scientific results in the form of a written elaboration which meets the requirements of a scientific publication and to present them orally. Conduct a computerized literature search and assess the validity and certainty of information. discuss, appropriately communicate one's own point of view, and collaborate with others in developing solution strategies. 				
Content	The topic is based on current topics from the working group and should be in the subject of the master's thesis.				
Media forms	Powerpoint presentations, blackboard, other working materials, evaluations at computer workstations				
Literature	Oriented to the particular topic and issued individually.				