

Module: Environmental Process Engineering II

Level	Bachelor	Short Name	UVT II
Responsible Lecturers	Heymann		
Department, Facility	Applied Natural Sciences		
Course of Studies	Environmental Engineering and Management, Bachelor		
Compulsory/elective	Compulsory elective	ECTS Credit Points	5
Semester of Studies	(Unspecified)	Semester Hours per Week	4
Length (semesters)	1	Workload (hours)	150
Frequency	SuSe	Presence Hours	60
Teaching Language	German/English	Self-Study Hours	90

The following section is filled only if there is **exactly one** module-concluding exam.

Exam Type	Portfolio Exam	Exam Language	German
Exam Length (minutes)		Exam Grading System	One-third Grades
Learning Outcomes	<p>The students acquire specialist skills in the field of environmental process engineering/measurement technology and are able to apply and use the methods and resources in projects in the course.</p> <p>The students are able to develop problem-oriented technical solutions.</p> <p>They can use mathematical modeling to support process evaluation, independent development, and their testing and optimization.</p> <p>They are able to apply evaluations based on various criteria for process selection, e.g. costs, benefits or sustainability criteria.</p>		
Participation Prerequisites	Environmental Process Engineering I		

The previous section is filled only if there is **exactly one** module-concluding exam.

Consideration of Gender and Diversity Issues	<ul style="list-style-type: none"> ✓ Use of gender-neutral language (THL standard) ✗ Target group specific adjustment of didactic methods ✓ Making subject diversity visible (female researchers, cultures etc.)
Applicability	
Remarks	

Module Course: Environmental Process Engineering (Project)

(of Module: Environmental Process Engineering II)

Course Type	Project Work	Form of Learning	Presence
Mandatory Attendance	no	ECTS Credit Points	5
Participation Limit		Semester Hours per Week	4
Group Size		Workload (hours)	150
Teaching Language	German/English	Presence Hours	60
Study Achievements ("Studienleistung", SL)		Self-Study Hours	90
SL Length (minutes)		SL Grading System	

The following section is filled only if there is a course-specific exam.

Exam Type		Exam Language	
Exam Length (minutes)		Exam Grading System	
Learning Outcomes			
Participation Prerequisites			

The previous section is filled only if there is a course-specific exam.

Contents	<p>The teaching content is defined and taught on a project-related basis. This can be based on the following subject areas, for example:</p> <ul style="list-style-type: none"> • Environmental process engineering • Construction of individual test benches • Process testing and optimization • Measurement technology • Environmental measurement technology • Application and evaluation of sensors • Development of measurement systems • Methods of mathematical modeling • Process engineering processes • Fluid mechanics and heat transfer • Prototype development • Measurement of environmental parameters in complex systems
Literature	<ul style="list-style-type: none"> • Project and case-related
Remarks	