TECHNISCHE HOCHSCHULE LÜBECK

Module: Environmental Impact Assessment I

Level	Bachelor	**Short Name**	UWB I
Responsible Lecturers	Reintjes		
Department, Facility	Applied Natural Sciences		
Course of Studies	Environmental Engineering and Management, Bachelor		
Compulsory/elective	Compulsory	**ECTS Credit Points**	5
Semester of Studies	3	**Semester Hours per Week**	4
Length (semesters)	1	**Workload (hours)**	150
Frequency	WiSe	**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	Written Exam	**Exam Language**	German/English
Exam Length (minutes)	120	**Exam Grading System**	One-third Grades
Learning Outcomes	The students are able to apply the methodological elements, terminology and logic of life cycle assessment according to ISO 14040/44. This allows them to review and evaluate published life cycle assessments and their interpretations.		
Participation Prerequisites			

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

Consideration of Gender and Diversity Issues	✔ 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 Impact Assessment (Lecture)

(of Module: Environmental Impact Assessment I)

Course Type	Lecture	**Form of Learning**	Presence
Mandatory Attendance	no	**ECTS Credit Points**	3
Participation Limit		**Semester Hours per Week**	2
Group Size		**Workload (hours)**	90
Teaching Language	German/English	**Presence Hours**	30
Study Achievements ("Studienleistung", SL)		**Self-Study Hours**	60
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	• Areas of application of environmental assessment, objectives, terms, basic methods • Life cycle assessment according to ISO 14040/44: (goal and scope, inventory, impact assessment, evaluation) • Illustration of methodological aspects based on published life cycle assessment studies
Literature	1. Klöpffer, W. & B. Grahl (2014): Life Cycle Assessment (LCA). John Wiley & Sons. 2. Frischknecht, R. (2020). *Lehrbuch der Ökobilanzierung*. Wiesbaden: Springer Spektrum. 3. DIN EN ISO 14040 / 14044: Ökobilanz 4. Primary literature from e.g. „The International Journal of Life Cycle Assessment“
Remarks	

Module Course: Environmental Impact Assessment (Practical Training)

(of Module: Environmental Impact Assessment I)

Course Type	Practical Training	**Form of Learning**	Presence
Mandatory Attendance	yes	**ECTS Credit Points**	2
Participation Limit		**Semester Hours per Week**	2
Group Size		**Workload (hours)**	60
Teaching Language	German/English	**Presence Hours**	30
Study Achievements ("Studienleistung", SL)	Practical Training	**Self-Study Hours**	30
SL Length (minutes)		**SL Grading System**	Pass

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	The students understand the software-supported approach to modeling systems for the purpose of environmental assessment. They can model, calculate and evaluate simple systems according to self-defined frameworks and objectives.
Literature	
Remarks	The coursework includes short presentations and documentation of the self-modeled systems.