TECHNISCHE HOCHSCHULE LÜBECK

Module: Modern Topics in Mechanical Engineering

Level	Bachelor	**Short Name**	MTME
Responsible Lecturers	Kral, Roland, Prof. Dr.-Ing.		
Department, Facility	Mechanical Engineering and Business Administration		
Course of Studies	Mechanical Engineering, Bachelor		
Compulsory/elective	Elective	**ECTS Credit Points**	5
Semester of Studies	(Unspecified)	**Semester Hours per Week**	4
Length (semesters)	1	**Workload (hours)**	150
Frequency	(Flexible)	**Presence Hours**	60
Teaching Language	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**	English
Exam Length (minutes)		**Exam Grading System**	One-third Grades

Learning Outcomes	The students know how to analyze engineering problems. They understand the state of the art and are able to apply this knowledge to selected problems to find innovative solutions.
Participation Prerequisites	Recommended are knowledge from the first two years of studies in Mechanical Engineering.

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	Senior Design Project (4th year at MSOE)
Remarks	Being up to date at any time is very important in a fast growing and improving world of technologies. The course wants to inform about modern topics in engineering on teaching level.

TECHNISCHE HOCHSCHULE LÜBECK

Module Course: Modern Topics in Mechanical Engineering (Lecture)

(of Module: Modern Topics in Mechanical Engineering)

Course Type	Lecture	**Form of Learning**	Presence
Mandatory Attendance	no	**ECTS Credit Points**	5
Participation Limit	25	**Semester Hours per Week**	4
Group Size		**Workload (hours)**	150
Teaching Language	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	**The topic is depending on the actual trends and needs** • Introduction into the subject • Describing the problem • State of the art • Picking out the problem • Main topic • Discussion • Summary • Case studies
Literature	• Will be distributed in the class, depending on the topic/subject • No explicit course book required Additional literature according to the list given out in class
Remarks	The course is intended for the 5th or 6th semester.