

Module: Modern Topics in Mechanical Engineering

Level	Bachelor	Short Name	MTME
Responsible Lecturers	Kral, Roland, Prof. DrIng.		
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 on	ly if there is exactly or	e module-concluding exam.	1
Exam Type	Written Exam	Exam Language	English
Exam Length (minutes)	120	Exam Grading System	One-third Grades
Learning Outcomes	The main target of this course is teaching current topics in research, the professional field in industry or other matters of concern in mechanical engineering and/or related subjects.		
Participation Prerequisites	Recommended are knowledge from the first two years of studies in Mechanical Engineering.		
The previous section is filled on	y if there is exactly on	e 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.		



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		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 on	ly if there is a course-s	pecific exam.	
Exam Type		Exam Language	
Exam Length (minutes)		Exam Grading System	
Learning Outcomes		1	
Participation Prerequisites			
The previous section is filled on	y if there is a course-s	pecific 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 		
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