

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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