

| Module description: Machine Elements 4 | | | | | | |
|---|--|-------------------|----------------------|----------------------|--------------------------|--------------------------|
| Module Code | t.BA.MTME4.19HS | | | | | |
| ECTS Credits | 2 | | | | | |
| Language of Instruction/Examination | German | | | | | |
| Organizational Unit | IPP | | | | | |
| Module Coordinator | Adrian Fassbind | | | | | |
| Legal Framework | The module description is part of the legal basis in addition to the general academic regulations. It is binding. During the first week of the semester a written and communicated supplement can specify the module description in more detail. | | | | | |
| Module Characteristic | Type 1a 2 lecture lessons per semester week and class | | | | | |
| Module Description | Fundamentals of machine elements in mechanical engineering 4 | | | | | |
| Module Content | <ul style="list-style-type: none"> In "Machine Elements 4" students acquire knowledge about the basics, application and design in welding technology, linear guides and screw connections | | | | | |
| Prerequisite Knowledge | https://gmpublic.zhaw.ch/GPMDocProdDPublic/2_Studium/2_02_Grundlagen_Studium/T_C_L_Modulauspraegungen_SM2025.pdf | | | | | |
| Learning Objectives (Competences) | Students... | | Competencies | Taxonomies | | |
| | Know the basics of welding technology, linear guides and screw connections can list these | | F | K1 | | |
| | Can describe the properties of the machine elements covered | | F | K2 | | |
| | Know and understand the most important design rules of the machine elements covered and can present them | | F | K1, K2 | | |
| | Are able to apply and explain the design rules in case studies | | F | K3 | | |
| | Understand the calculation and design methods of the machine elements covered | | F | K2 | | |
| | Can apply the calculation and design methods in case studies and carry out written calculations | | F | K3 | | |
| Performance Assessment | End-of-module exam | Assessment | Length (min.) | Weighting | Form | |
| | written exam | Grade | 90 | 80 | acc. to module agreement | |
| | Performance assessment during the semester | | Assessment | Length (min.) | Weighting | Form |
| | Shorttests | | Grade | 5 | 5 | acc. to module agreement |
| | written exam | | Grade | 90 | 15 | acc. to module agreement |
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| Classroom Attendance Requirement | None | | | | | |

Module description: Machine Elements 4

Learning material

- Spura & Wittel & Jannasch Roloff/Matek Maschinenelemente. Springer. ISBN 978-3-658-34159-6.
- Lecture notes as well as exercises and required supplier documents on moodle

Comments