

Mechanical Engineering Master of Science						
Entry requirements:	1 st semester	2 nd semester	3 rd semester	4 th semester	Career Prospects:	
A qualified bachelor's degree or diploma in one of the fields of mechanical engineering, polymer engineering, process engineering, or mechatronics with an overall grade of 2.5 or better and at least 180 CP. • The faculty offers qualification courses for applicants lacking basic knowledge (e.g. in the fields of mathematics, engineering mechanics, thermodynamics) for the core subjects of the master's programme. Participation in and successful completion of these qualification courses may be defined by the Examination Board as additional courses to the regular master's programme for those applicants. • In individual cases, applicants with a grade of better than 3.0 and an ECTS grade of "C" or better may be admitted on application. The prerequisite for this is that candidates show a clear affinity to the field of study, in particular through good performance in basic subjects. • English language skills are recommended. For detailed and binding information, please refer to the BBPO.	Production Systems, 5 CP	Advanced Thermodynamics & Renewable Energies, 5 CP	Component Optimisation and Hybrid Lightweight Construction, 5 CP	Master's Seminar on Scientific Publishing, 5 CP	The master's degree • qualifies graduates e.g. for positions in - research and development, - design and production, - management positions, - employed or as a freelancer in the following industries (selection) - mechanical and electrical engineering, - plant engineering, - automotive engineering, - medical and environmental technology, - aerospace technology, • qualifies graduates for higher civil service positions and • provides an opportunity to pursue a doctorate. The Diploma Supplement, which assigns an ECTS grade from A to E to the grade, simplifies the recognition of the degree abroad.	
	Multibody Systems, 5 CP	Structural Durability, 5 CP	Ecological Assessment of Technical Products, 5 CP	Master's Thesis with Colloquium, 25 CP		
	Mechanical Engineering Core Elective, 5 CP	Mechanical Engineering Core Elective, 5 CP	Mechanical Engineering Core Elective or Research Project, 5 CP			
	Mechanical Engineering Core Elective, 5 CP	Mechanical Engineering Core Elective or Research Project, 5 CP	Mechanical Engineering Core Elective or Research Project, 5 CP			
	Mechanical Engineering Core Elective, 5 CP	Engineering Research Project, 5 CP	Economics and Sustainability in Enterprises, 5 CP			
	Mechanical Engineering Core Elective or Research Project, 5 CP	Interdisciplinary Challenges of Social Developments, 5 CP	Economics and Sustainability in Enterprises Core Elective, 5 CP			

CP: The size of the module blocks corresponds to the average amount of studying and learning required. Credit points (CP) are awarded for modules completed - usually 30 CP per semester.
 Colour legend: standard module final thesis practical phase core elective, specialisations interdisciplinary qualifications