

Module Overview B.Sc. Mechanical Engineering - Sustainable Engineering (12 Semesters)

Degree Programme Guidelines as per 01.10.2021, Version 01.10.2021

The degree programme consists of 180 Credit Points (CP) in total:

Mandatory Area:	146 CP		Interdisciplinary Elective Area: 3-6 CP		
-including lab practical :	14 CP		Research/Thesis:	12 CP	
Elective Subject Area:	16-19 CP				

Language of Tuition:
GERMAN
Certificates required



This leads to the following possible part-time semester course schedule:

1. Semester	2. Semester	3. Semester	4. Semester	5. Semester	6. Semester	7. Semester	8. Semester	9. Semester	10. Semester	11. Semester	12. Semester
Engineering Mechanics I (Statics) (6 CP)	Engineering Mechanics II (Elastostatics) (6 CP)	Material Science & Engineering I (4 CP)	Material Science & Engineering II (4 CP)	Physics for Mechanical Engineering (4 CP)	Measurement Techniques, Sensors and Statistics (6 CP)	Engineering Mechanics III (Dynamics) (6 CP)	Fundamental Fluid Mechanics (6 CP)	Systems Theory and Control Engineering (6 CP)	Numerical Simulation Methods (4 CP)	Heat and Mass Transfer (4 CP)	Bachelor's Thesis (12 CP)
Mathematics for Mechanical Engineering I (8 CP)	Mathematics for Mechanical Engineering II (8 CP)	Fundamentals of Digitalisation (4 CP)	Introduction to Electrical Engineering (6 CP)	Machine Elements and Mechatronics I (8 CP)	Machine Elements and Mechatronics II (8 CP)	Technical Thermodynamics I (6 CP)	Technical Thermodynamics II (4 CP)	Hands on tutorial digitalization (2 CP)	Engineering Science and Society - Lecture (2 CP)	Product Design Project (4 CP)	
Introduction to Mechanical Engineering (2 CP)		Production Technology (6 CP)	Computer Aided Design (CAD) (4 CP)	Mathematics for Mechanical Engineering III (4 CP)	Mathematics of Machine Learning (4 CP)	Material Science & Engineering III (2 CP)			Engineering Science and Society - Seminar (2 CP)		Introduction to Scientific Working and Writing (2 CP)
			Chemistry for Mechanical Engineering (4 CP)								
Elective Subject Area (16-19 CP)											
Interdisciplinary Elective Area* (3-6 CP)											
16 CP	14 CP	14 CP	18 CP	16 CP	18 CP	12 CP	15 CP	14 CP	15 CP	14 CP	14 CP

* Modules outside the field of science and engineering: Specific catalogs department 1-3 and language center.