Module Overview B.Sc. Mechanical Engineering - Sustainable Engineering (9 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:

Elective Subject Area:

-including lab practical:

146 CP 14 CP

16-19 CP

Interdisciplinary Elective Area: 3-6 CP

Research/Thesis: 12 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
Introduction to Mechanical Engineering (2 CP)	Chemistry for Mechanical Engineering (4 CP)	Physics for Mechanical Engineering (4 CP)	Introduction to Electrical Engineering (6 CP)			Product Design Project (4 CP)	Engineering Science and Society - Lecture (2 CP)	Bachelor's Thesis (12 CP)
Mathematics for Mechanical Engineering I (8 CP)	Mathematics for Mechanical Engineering II (8 CP)	Mathematics for Mechanical Engineering III (4 CP)	Mathematics of Machine Learning (4 CP)	Technical Thermodynamics I (6 CP)	Technical Thermodynamics II (4 CP)	Systems Theory and Control Engineering (6 CP)	Engineering Science and Society -Seminar (2 CP)	
Engineering Mechanics I (Statics) (6 CP)	Engineering Mechanics II (Elastostatics) (6 CP)	Fundamentals of Digitalisation (4 CP)	Computer Aided Design (CAD) (4 CP)	Machine Elements and Mechatronics I (8 CP)	Machine Elements and Mechatronics II (8 CP)	Engineering Mechanics III (Dynamics) (6 CP)	Numerical Simulation Methods (4 CP)	Heat and Mass Transfer (4 CP)
Material Science & Engineering I (4 CP)	Material Science & Engineering II (4 CP)	Production Technology (6 CP)	Measurement Techniques, Sensors and Statistics (6 CP)	Material Science & Engineering III (2 CP)	Fundamental Fluid Mechanics (6 CP)	Hands on tutorial digitalization (2 CP)		Introduction to Scientific Working and Writing (2 CP)
			Elective Subject Area (16-19 CP)					
			Interdisciplinary Elective Area* (3-6 CP)					
20 CP	22 CP	18 CP	20 CP	20 CP	18 CP	22 CP	22 CP	18 CP

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