Course of Study Mechanical Engineering (Study Cohort w17)

Legend

Core Qualification Compulsory	Specialisation Compulsory	Focus Compulsory	Thesis Compulsory
Core Qualification Elective Compulsory	Specialisation Elective Compulsory	Focus Elective Compulsory	Interdisciplinary complement

Sample course plan C Bachelor Mechanical Engineering (MBBS)
Specialisation Biomechanics

LP	Semester 1	Form	Hrs/wk	Semester 2	Form	Hrs/wk	Semester 3	Form	Hrs/wk	Semester 4	Form	Hrs/wk	Semester 5	Form	Hrs/wk	Semester 6	Form	Hrs/wk
1	**Production Engineering (part 1)**			**Production Engineering (part 2)**			**Advanced Mechanical Engineering Design (part 1)**			**Advanced Mechanical Engineering Design (part 2)**			**Advanced Mechanical Design Project**			**Foundations of Management**		
2	Production Engineering I	VL	2	Production Engineering II	VL	2	Advanced Mechanical Engineering Design I	VL	2	Advanced Mechanical Engineering Design II	VL	2	Advanced Mechanical Design Project	PBL	4	Introduction to Management	VL	3
3	Production Engineering I	HÜ	1	Production Engineering II	HÜ	1	Advanced Mechanical Engineering Design I	HÜ	2	Advanced Mechanical Engineering Design II	HÜ	2				Management Tutorial	HÜ	2
4	**Computer Science for Mechanical Engineers**			**Fundamentals of Materials Science (part 2)**			**Mechanical Engineering: Design (part 1)**			**Mechanical Engineering: Design (part 2)**								
5	Computer Science for Mechanical Engineers	VL	2	Fundamentals of Materials Science II	VL	2	Embodiment Design and 3D-CAD	VL	2	Team Project Design Methodology	PBL	2						
6	Computer Science for Mechanical Engineers	GÜ	2	**Fundamentals of Mechanical Engineering Design**			Mechanical Design Project I	PBL	3	Mechanical Design Project II	PBL	3						
7	Computer Science for Mechanical Engineers	HÜ	1	Fundamentals of Mechanical Engineering Design	VL	2	**Basics of Electrical Engineering**			**Fluid Dynamics**			**Introduction to Control Systems**			**MED II: Introduction to Physiology**		
8				Fundamentals of Mechanical Engineering Design	HÜ	2	Basics of Electrical Engineering	VL	3	Fluid Mechanics	VL	3	Introduction to Control Systems	VL	2	Introduction to Physiology	VL	2
9							Basics of Electrical Engineering	GÜ	2	Fluid Mechanics	HÜ	2	Introduction to Control Systems	GÜ	2			
10	**Mathematics I**			**Technical Thermodynamics I**												**BIO I: Experimental Methods in Biomechanics**		
11	Linear Algebra I	VL	2	Technical Thermodynamics I	VL	2	**Technical Thermodynamics II**			**Mechanics IV (Kinetics II, Oscillations, Analytical Mechanics, Multibody Systems)**			**Measurement Technology for Mechanical and Process Engineers**			Experimental Methods in Biomechanics	VL	2
12	Linear Algebra I	GÜ	1	Technical Thermodynamics I	HÜ	1	Technical Thermodynamics II	VL	2	Mechanics IV	VL	3	Measurement Technology for Mechanical and Process Engineers	VL	2	**Bachelor Thesis**		
13	Linear Algebra I	HÜ	1	Technical Thermodynamics I	GÜ	1	Technical Thermodynamics II	HÜ	1	Mechanics IV	GÜ	2	Measurement Technology for Mechanical and Process Engineers	HÜ	1			
14	Analysis I	VL	2				Technical Thermodynamics II	GÜ	1	Mechanics IV	HÜ	1	Practical Course: Measurement and Control Systems	PR	2			
15	Analysis I	GÜ	1															
16	Analysis I	HÜ	1															
17																		
18	**Mechanics I (Statics)**			**Mechanics II: Mechanics of Materials**			**Mathematics III**			**MED I: Introduction to Anatomy**			**MED II: Introduction to Biochemistry and Molecular Biology**					
19	Mechanics I	VL	2	Mechanics II	VL	2	Analysis III	VL	2	Introduction to Anatomy	VL	2	Introduction to Biochemistry and Molecular Biology	VL	2			
20	Mechanics I	GÜ	2	Mechanics II	GÜ	2	Analysis III	GÜ	1									
21	Mechanics I	HÜ	1	Mechanics II	HÜ	2	Analysis III	HÜ	1	**MED I: Introduction to Radiology and Radiation Therapy**			**BIO I: Implants and Fracture Healing**					
22							Differential Equations 1	VL	2	Introduction to Radiology and Radiation Therapy	VL	2	Implants and Fracture Healing	VL	2			
23							Differential Equations 1	GÜ	1									
24	**Fundamentals of Materials Science (part 1)**			**Mathematics II**			Differential Equations 1	HÜ	1	**Advanced Materials**								
25	Fundamentals of Materials Science I	VL	2	Linear Algebra II	VL	2				Advanced Materials Characterization	VL	2						
26	Physical and Chemical Basics of Materials Science	VL	2	Linear Algebra II	GÜ	1				Advanced Materials Design	VL	2						
27				Linear Algebra II	HÜ	1				Advanced Materials Design	HÜ	2						
28	**Team Project MB**			Analysis II	VL	2	**Mechanics III (Hydrostatics, Kinematics, Kinetics I)**											
29	Team Project MB	TT	6	Analysis II	HÜ	1	Mechanics III	VL	3									
30				Analysis II	GÜ	1	Mechanics III	GÜ	2									
31							Mechanics III	HÜ	1									
32																		
33																		

Nontechnical Complementary Courses for Bachelors (from catalogue) - 6LP

The choice of courses from the catalogue is flexible (depends on the semestral work load), provided the necessary number of required credits is reached.