Course of Study Mechanical Engineering (Study Cohort w17)

Sample course plan C Bachelor Mechanical Engineering (MBBS)
Specialisation Product Development and Production

#	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				Mechanical Design Project I	PBL	3	Mechanical Design Project II	PBL	3						
6	Computer Science for Mechanical Engineers	HÜ	1	**Fundamentals of Mechanical Engineering Design**														
7				Fundamentals of Mechanical Engineering Design	VL	2	**Basics of Electrical Engineering**			**Fluid Dynamics**			**Introduction to Control Systems**			**Integrated Product Development and Lightweight Design**		
8				Fundamentals of Mechanical Engineering Design	HÜ	2	Basics of Electrical Engineering	VL	3	Fluid Mechanics	VL	3	Introduction to Control Systems	VL	2			
9							Basics of Electrical Engineering	GÜ	2	Fluid Mechanics	HÜ	2	Introduction to Control Systems	GÜ	2	Integrated Product Development I	VL	2
9																Development of Lightweight Design Products	VL	2
10	**Mathematics I**															CAE-Team Project	PBL	2
11	Linear Algebra I	VL	2															
11	Linear Algebra I	GÜ	1															
12	Linear Algebra I	HÜ	1	**Technical Thermodynamics I**														
13	Analysis 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**			**Bachelor Thesis**		
14	Analysis I	GÜ	1	Technical Thermodynamics I	HÜ	1	Technical Thermodynamics II	VL	2									
14	Analysis I	HÜ	1	Technical Thermodynamics I	GÜ	1	Technical Thermodynamics II	HÜ	1	Mechanics IV	VL	3	Measurement Technology for Mechanical and Process Engineers	VL	2			
15							Technical Thermodynamics II	GÜ	1	Mechanics IV	GÜ	2						
16										Mechanics IV	HÜ	1	Measurement Technology for Mechanical and Process Engineers	HÜ	1			
17													Practical Course: Measurement and Control Systems	PR	2			
18	**Mechanics I (Statics)**			**Mechanics II: Mechanics of Materials**														
19	Mechanics I	VL	2	Mechanics II	VL	2	**Mathematics III**			**Advanced Materials**			**Production Technology**					
20	Mechanics I	GÜ	2	Mechanics II	GÜ	2	Analysis III	VL	2	Advanced Materials Characterization	VL	2	Forming and Cutting Technology	VL	2			
20	Mechanics I	HÜ	1	Mechanics II	HÜ	2	Analysis III	GÜ	1	Advanced Materials Design	VL	2	Forming and Cutting Technology	HÜ	1			
21							Analysis III	HÜ	1	Advanced Materials Design	HÜ	2	Fundamentals of Machine Tools	VL	2			
22							Differential Equations 1	VL	2				Fundamentals of Machine Tools	HÜ	1			
23							Differential Equations 1	GÜ	1									
23							Differential Equations 1	HÜ	1									
24	**Fundamentals of Materials Science (part 1)**			**Mathematics II**														
25	Fundamentals of Materials Science I	VL	2	Linear Algebra II	VL	2							**Material Science Laboratory**					
26	Physical and Chemical Basics of Materials Science	VL	2	Linear Algebra II	GÜ	1							Companion Lecture for Materials Science Laboratory	VL	2			
26				Linear Algebra II	HÜ	1												
27				Analysis II	VL	2	**Mechanics III (Hydrostatics, Kinematics, Kinetics I)**						Material Science Laboratory	PR	4			
28	**Team Project MB**			Analysis II	HÜ	1	Mechanics III	VL	3									
29	Team Project MB	TT	6	Analysis II	GÜ	1	Mechanics III	GÜ	2									
30							Mechanics III	HÜ	1									
31																		
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.