

Course of Study Biomedical Engineering (Study Cohort w17)

Sample course plan E Master Biomedical Engineering (MEDMS)
Specialisation Implants and Endoprostheses

Legend:

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

LP	Semester 1	Form Hrs/wk	Semester 2	Form Hrs/wk	Semester 3	Form Hrs/wk	Semester 4	Form Hrs/wk
1	Applied Statistics		Medical Imaging Systems		Medical Basics and Pathology (part 2)		Master Thesis	
2	Applied Statistics	VL 2	Medical Imaging Systems	VL 4	Medical Basics and Pathology II	VL 2		
3	Applied Statistics	UE 1			Medical Basics and Pathology III	VL 2		
4	Applied Statistics	PBL 2			Study work			
5								
6								
7	Finite Elements Methods		Practical Course Product Development, Materials and Production					
8	Finite Element Methods	VL 2	Practical Course Product Development, Materials and Production	FL 6				
9	Finite Element Methods	HÜ 2						
10								
11								
12								
13	BIO II: Biomaterials		Medical Basics and Pathology (part 1)					
14	Biomaterials	VL 2	Medical Basics and Pathology I	VL 2				
15								
16	Polymers		Case Studie and Clinical Internship					
17	Structure and Properties of Polymers	VL 2	Clinical Internship	PR 1				
18	Processing and design with polymers	VL 2	Casestudies Surgery and Internal Medicine	SE 5				
19								
20								
21								
22	Continuum Mechanics		BIO II: Artificial Joint Replacement					
23	Continuum Mechanics	VL 2	Artificial Joint Replacement	VL 2				
24	Continuum Mechanics Exercise	UE 2						
25			Robotics and Navigation in Medicine					
26			Robotics and Navigation in Medicine	VL 2				
27			Robotics and Navigation in Medicine	UE 1				
28			Robotics and Navigation in Medicine	PS 2				
29	Material Modeling							
30	Material Modeling	VL 2						
31	Material Modeling	UE 2						
32								
33								
Business & Management (from catalogue) - 6LP								
Nontechnical Elective Complementary Courses for Master (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.

