

Course of Study Biomedical Engineering (Study Cohort w21)

Sample course plan E Master Biomedical Engineering (MEDMS)

		Specialisation Implants and Endoprostheses		Semester 2		Semester 3		Semester 4		
		Form	Hrs/wk	Form	Hrs/wk	Form	Hrs/wk	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	GÜ	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	PR	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				Case Studie and Clinical Internship						
16	Polymers			Clinical Internship	PR	1				
17	Structure and Properties of Polymers	VL	2	Casestudies Surgery and Internal Medicine	SE	5				
18	Processing and design with polymers	VL	2							
19										
20										
21				BIO II: Artificial Joint Replacement						
22	Continuum Mechanics			Artificial Joint Replacement	VL	2				
23	Continuum Mechanics	VL	2							
24	Continuum Mechanics Exercise	GÜ	2	Robotics and Navigation in Medicine						
25				Robotics and Navigation in Medicine	VL	2				
26				Robotics and Navigation in Medicine	GÜ	1				
27				Robotics and Navigation in Medicine	PS	2				
28	Materials Modeling									
29	Material Modeling	VL	2							
30	Material Modeling	GÜ	2							
31										
32										
33										
Business & Management (from catalogue) - 6LP										
Non-technical 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.

