Course of Study Biomedical Engineering (Study Cohort w20)

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											
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								
5							**Study work**				
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	**Material 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.