

Course of Study Biomedical Engineering (Study Cohort w18)

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

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

