

Course of Study Biomedical Engineering (Study Cohort w17)

Sample course plan T Master Biomedical Engineering (MEDMS)
Specialisation Artificial Organs and Regenerative Medicine

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	Intelligent Systems in Medicine		Practical Course Product Development, Materials and Production					
8	Intelligent Systems in Medicine	VL 2	Practical Course Product Development, Materials and Production	FL 6				
9	Intelligent Systems in Medicine	UE 1						
10	Intelligent Systems in Medicine	PS 2						
11								
12								
13	Finite Elements Methods		Medical Basics and Pathology (part 1)					
14	Finite Element Methods	VL 2	Medical Basics and Pathology I	VL 2				
15	Finite Element Methods	HÜ 2						
16			Case Studie and Clinical Internship					
17			Clinical Internship	PR 1				
18			Casestudies Surgery and Internal Medicine	SE 5				
19	BIO I: Implants and Fracture Healing							
20	Implants and Fracture Healing	VL 2						
21			Regenerative Medicine					
22			Regenerative Medicine	SE 2				
23	BIO II: Biomaterials		Practical Course Introduction to Cell Culture	PR 3				
24	Biomaterials	VL 2						
25								
26								
27			Bioprocess Engineering - Fundamentals					
28			Bioprocess Engineering - Fundamentals	VL 2				
29			Bioprocess Engineering- Fundamentals	HÜ 2				
30			Bioprocess Engineering - Fundamental	PR 2				
31			Practical Course					
32								
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.

