

Course of Study Biomedical Engineering (Study Cohort w19)

Sample course plan T Master Biomedical Engineering (MEDMS)

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

Specialisation Artificial Organs and Regenerative Medicine				Semester 2				Semester 3				Semester 4			
		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												
5							Study work								
6															
7	Regenerative Medicine			Practical Course Product Development, Materials and Production											
8	Regenerative Medicine	SE	2	Practical Course Product Development, Materials and Production	PR	6									
9	Lecture Tissue Engineering - Regenerative Medicine	SE	2												
10															
11															
12															
13	Microsystem Engineering			Medical Basics and Pathology (part 1)											
14	Microsystem Engineering	VL	2	Medical Basics and Pathology I	VL	2									
15	Microsystem Engineering	PBL	2												
16				Case Studie and Clinical Internship											
17				Clinical Internship	PR	1									
18				Casestudies Surgery and Internal Medicine	SE	5									
19	Finite Elements Methods														
20	Finite Element Methods	VL	2												
21	Finite Element Methods	HÜ	2	Bioprocess Engineering - Fundamentals											
22				Bioprocess Engineering - Fundamentals	VL	2									
23				Bioprocess Engineering- Fundamentals	HÜ	2									
24				Bioprocess Engineering - Fundamental Practical Course	PR	2									
25	Electronic Circuits for Medical Applications														
26	Electronic Circuits for Medical Applications	VL	2												
27	Electronic Circuits for Medical Applications	GÜ	1	Case Studies for Regenerative Medicine and Tissue Engineering											
28	Electronic Circuits for Medical Applications	PR	1	Case Studies for Regenerative Medicine and Tissue Engineering	SE	3									
29															
30															
31															
32															
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.

