

Course of Study Biomedical Engineering (Study Cohort w21)

Sample course plan R Master Biomedical Engineering (MEDMS)

Specialisation Medical Technology and Control Theory

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

	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)			
2	Applied Statistics	VL	2		Medical Imaging Systems	VL	4		Medical Basics and Pathology II	VL	2	Master Thesis
3	Applied Statistics	GÜ	1					Medical Basics and Pathology III	VL	2		
4	Applied Statistics	PBL	2									
5												
6												
7	Control Systems Theory and Design				Practical Course Product Development, Materials and Production				Study work			
8	Control Systems Theory and Design	VL	2		Practical Course Product Development, Materials and Production	PR	6					
9	Control Systems Theory and Design	GÜ	2									
10												
11												
12												
13	Electronic Circuits for Medical Applications				Medical Basics and Pathology (part 1)							
14	Electronic Circuits for Medical Applications	VL	2		Medical Basics and Pathology I	VL	2					
15	Electronic Circuits for Medical Applications	GÜ	1									
16	Electronic Circuits for Medical Applications	PR	1		Case Studie and Clinical Internship							
17					Clinical Internship	PR	1					
18					Casestudies Surgery and Internal Medicine	SE	5					
19	Intelligent Autonomous Agents and Cognitive Robotics				Linear and Nonlinear System Identifikation							
20	Intelligent Autonomous Agents and Cognitive Robotics	VL	2		Linear and Nonlinear System Identification	VL	2					
21	Intelligent Autonomous Agents and Cognitive Robotics	GÜ	2									
22					Feedback Control in Medical Technology							
23					Feedback Control in Medical Technology	VL	2					
24												
25	Microsystems Technology in Theory and Practice				Robotics and Navigation in Medicine							
26	Microsystems Technology	VL	2		Robotics and Navigation in Medicine	VL	2					
27	Microsystems Technology	PBL	2		Robotics and Navigation in Medicine	GÜ	1					
28					Robotics and Navigation in Medicine	PS	2					
29												
30												
31	Business & Management (from catalogue) - 6LP											
32	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.

