

# Course of Study Biomedical Engineering (Study Cohort w19)

Sample course plan R 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 Medical Technology and Control Theory				Semester 2				Semester 3				Semester 4			
		Hrs/wk		Form	Hrs/wk			Form	Hrs/wk			Form	Hrs/wk		
1	<b>Applied Statistics</b>					<b>Medical Imaging Systems</b>				<b>Medical Basics and Pathology (part 2)</b>			<b>Master Thesis</b>		
2	Applied Statistics	VL	2		4	Medical Imaging Systems	VL		2	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										<b>Study work</b>					
6															
7	<b>Control Systems Theory and Design</b>					<b>Practical Course Product Development, Materials and Production</b>									
8	Control Systems Theory and Design	VL	2		6	Practical Course Product Development, Materials and Production	PR		6						
9	Control Systems Theory and Design	GÜ	2												
10															
11															
12															
13	<b>Electronic Circuits for Medical Applications</b>					<b>Medical Basics and Pathology (part 1)</b>									
14	Electronic Circuits for Medical Applications	VL	2		2	Medical Basics and Pathology I	VL		2						
15	Electronic Circuits for Medical Applications	GÜ	1												
16	Electronic Circuits for Medical Applications	PR	1			<b>Case Study and Clinical Internship</b>									
17						Clinical Internship	PR		1						
18						Casestudies Surgery and Internal Medicine	SE		5						
19	<b>Intelligent Autonomous Agents and Cognitive Robotics</b>														
20	Intelligent Autonomous Agents and Cognitive Robotics	VL	2												
21	Intelligent Autonomous Agents and Cognitive Robotics	GÜ	2			<b>Linear and Nonlinear System Identification</b>									
22						Linear and Nonlinear System Identification	VL		2						
23															
24						<b>Feedback Control in Medical Technology</b>									
25	<b>Microsystems Technology in Theory and Practice</b>					Feedback Control in Medical Technology	VL		2						
26	Microsystems Technology	VL	2												
27	Microsystems Technology	PBL	2			<b>Robotics and Navigation in Medicine</b>									
28						Robotics and Navigation in Medicine	VL		2						
29						Robotics and Navigation in Medicine	GÜ		1						
30						Robotics and Navigation in Medicine	PS		2						
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.

