

Course of Study Biomedical Engineering (Study Cohort w17)

Sample course plan R Master Biomedical Engineering (MEDMS)
Specialisation Medical Technology and Control Theory

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	Control Systems Theory and Design		Practical Course Product Development, Materials and Production					
8	Control Systems Theory and Design	VL 2	Practical Course Product Development, Materials and Production	FL 6				
9	Control Systems Theory and Design	UE 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	UE 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								
20	Intelligent Autonomous Agents and Cognitive Robotics		Linear and Nonlinear System Identifikation					
21	Intelligent Autonomous Agents and Cognitive Robotics	VL 2	Linear and Nonlinear System Identification	VL 2				
22	Intelligent Autonomous Agents and Cognitive Robotics	UE 2						
23			Feedback Control in Medical Technology					
24			Feedback Control in Medical Technology	VL 2				
25	Microsystems Technology in Theory and Practice							
26	Microsystems Technology	VL 2	Robotics and Navigation in Medicine					
27	Microsystems Technology	PBL 2	Robotics and Navigation in Medicine	VL 2				
28			Robotics and Navigation in Medicine	UE 1				
29			Robotics and Navigation in Medicine	PS 2				
30								
31								
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.

