

Course of Study Computational Science and Engineering (Study Cohort w17)

Sample course plan R Master Computational Science and Engineering (IIWMS)
Specialisation Systems Engineering and Robotics

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	Robotics		Machine Learning and Data Mining		Research Project and Seminar		Master Thesis	
2	Robotics: Modelling and Control	VL 3	Machine Learning and Data Mining	VL 2	Seminar	SE 2		
3	Robotics: Modelling and Control	UE 2	Machine Learning and Data Mining	UE 2	Project Work	PK 10		
4								
5								
6								
7	Industrial Process Automation		Robotics and Navigation in Medicine					
8	Industrial Process Automation	VL 2	Robotics and Navigation in Medicine	VL 2				
9	Industrial Process Automation	UE 2	Robotics and Navigation in Medicine	UE 1				
10			Robotics and Navigation in Medicine	PS 2				
11								
12								
13	Control Systems Theory and Design		Microsystem Design					
14	Control Systems Theory and Design	VL 2	Microsystem Design	VL 2				
15	Control Systems Theory and Design	UE 2	Microsystem Design	PR 3				
16								
17								
18								
19			Optimal and Robust Control		Intelligent Systems in Medicine			
20			Optimal and Robust Control	VL 2	Intelligent Systems in Medicine	VL 2		
21			Optimal and Robust Control	UE 2	Intelligent Systems in Medicine	UE 1		
22					Intelligent Systems in Medicine	PS 2		
23								
24								
25			Applied Humanoid Robotics		Microsystem Engineering			
26			Humanoid Robotics	PBL 6	Microsystem Engineering	VL 2		
27					Microsystem Engineering	PBL 2		
28								
29								
30								
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.