

Masterstudiengang Robotic Systems Engineering an der RWTH Aachen

PO 2021
01.09.2021

Compulsory Courses												
Responsible for Module	Lecturers	Module	CP	L	P/L	Σ SWS		Module ID	Σ CP	Σ SWS	Σ CP	Σ SWS
Corves	Corves	Advanced Robotic Kinematics and Dynamics	5	2	2	4	w	4018564	5	4	49	36
Abel	Abel	Control Engineering	5	2	1	3	w	4011476	5	3		
Meisen	Meisen	Computer Science in Mechanical Engineering II	5	2	2	4	w	4018565	5	4		
Leibe	Leibe	Computer Vision	6	3	1	4	w/s	1215724	6	4		
N.N.	N.N.	German Language Course	2	2	0	2	sw	4013868	2	2		
Leibe	Leibe	Machine Learning	6	3	1	4	w	1215744	6	4		
Corves	Corves	Multibody Dynamics	5	2	2	4	s	4011462	5	4		
Schmitt	Schmitt	Robotic Sensor Systems	5	2	2	4	w	4018566	5	4		
Hüsing	Hüsing	Robotic Systems	5	2	2	4	w	4018563	5	4		
Roßmann	Roßmann	Simulation of Robotic Systems, Sensors and Environment	5	2	1	3	w	6020083	5	3		
		Internship or Research Project	10				sw		10		30	
RWTH		Master Thesis	20				sw		20			

Elective Courses												
Responsible for Module	Lecturers	Module	CP	L	P/L	Σ SWS	Summer / Winter	Module ID	Σ CP	Σ SWS	Σ CP	Σ SWS
Leonhardt / Misgeld	Leonhardt / Misgeld	Advanced Control Systems	4	2	1	3	w	6010486	2	4	43	*
De Doncker	De Doncker	Advanced Electrical Drives	4	2	1	3	s	6017063	2	4		
Itskov	Itskov	Advanced Finite Element Methods for Engineers	5	2	2	4	w	4013866	2	6		
N.N.	N.N.	Advanced Machine Learning	6	3	1	4	s	1211912	3	5		
Mitsos	Mitsos	Applied Numerical Optimization Engineering	4	2	2	4	w/s	4018569	2	6		
Kohlschein	Kohlschein	Artificial Intelligence and Data Analytics for Engineers	5	2	1	3	s	4018567	2	4		
Schuh	Dannapfel	International Factory Planning	5	2	2	4	s	4011481	2	6		
Schuh	Schuh / Stich	Industrial Logistics	5	2	1	3	s	4011473	2	4		
N.N.	N.N.	Introduction to Artificial Intelligence	6	2	2	4	w	1220228	2	6		
Hüsing	Hüsing	Machine Dynamics of Rigid Systems	6	2	2	4	s	4017428	2	6		
Brecher	Brecher	Mechatronics and Control Techniques for Production Plants	6	2	2	4	w	4011451	2	6		
Ban	Ban	Numerical Methods in Mechanical Engineering	7	3	2	5	w	4011449	3	7		
N.N.	N.N.	Power Electronics - Control, Synthesis and Applications	5	3	1	4	w	6010377	3	5		
Jacobs / Schröder	Jacobs / Schröder	Processes and Principles for Lightweight Design	6	2	2	4	w	4011411	2	6		
Schmitt	Schmitt	Production Metrology	5	2	2	4	s	4011467	2	6		
Salge	Salge	Strategic Technology Management	5	2	2	4	w	8015425	2	6		
Mertens	Mertens	Summer School ** Advanced Topics in Robotic Systems Engineering	3	2	2	4	s	4018568	2	6		

* The total amount of weekly contact hours (SWS) depends on the modules selected.