

Networked Production Engineering – Track Electric Mobility

Module	CP	WS - 1. Sem.			SS - 2. Sem.			WS - 3. Sem.			SS - 4. Sem.		
		L	E	P	L	E	P	L	E	P	L	E	P
		SWS			SWS			SWS			SWS		
Compulsory Courses	51	17			23			11			0		
Program specific	28	11			11			6			0		
Mechatronics and Control Techniques for Production Plants	6	2	2										
Manufacturing Technology I	5	2	2										
Manufacturing Technology II	6				2	2							
Production Management B	5				2	2							
Quality Management	6							2	2				
Track specific	23	6			12			5			0		
Embedded Systems	6				3	1							
Model based Systems Engineering	6	2	3										
Factory Planning	6				2	2							
Process Analysis in Manufacturing Technology	5							2	1				
Elective Courses	21	11			5			5			0		
Practical Experience or Elective Courses	12	0			0			12			0		
Internship (Practical Experience)	12							12 weeks					
Elective Courses	12							See elective courses					
Language Courses and Master Thesis	36	2			2			2			30		
Language Course (1)	2	1	1										
Language Course (2)	2				1	1							
Linguistic Elective*	2							1	1				
Master Thesis	30										6 Months		
Total	120	30			30			30			30		

Elective Courses	CP	L	E	Term
Advanced Software Engineering	5	2	2	WS
Machine Design Process	5	2	2	WS
Modeling, Model Reduction and Simulation in Laser Processing - Applications	5	2	2	WS
Tribology	5	2	2	WS
Gear and Transmission Technology	6	2	2	WS
Simulation Techniques in Manufacturing Technology	6	2	1	WS
High Precision Glass Optics Manufacturing	6	2	2	WS
Control Engineering	3	1	1	WS
Robotic Systems	5	2	2	WS
Industrial Logistics	5	2	1	SS
Production Metrology	5	2	2	SS
Modeling, Model Reduction and Simulation in Laser Processing - Laser	5	2	2	SS
Modeling, Model Reduction and Simulation in Laser Processing - Design	5	2	2	SS
Multibody Dynamics	6	2	2	SS
Welding and Joining Technologies	6	2	2	SS