

**Networked Production Engineering – Track Additive Manufacturing**

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		
<b>Compulsory Courses</b>	51	23			17			11			0		
<b>Program specific</b>	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				
<b>Track specific</b>	23	12			6			5			0		
Laser Application	6	2	2										
Additive Manufacturing I	6	2	2										
Additive Manufacturing II	6				2	2							
Materials for Additive Manufacturing	5							2	1				
<b>Elective Courses</b>	21	5			11			5			0		
<b>Practical Experience or Elective Courses</b>	12	0			0			12			0		
Internship (Practical Experience)	1 of 2	12						12 weeks					
Elective Courses	12							See elective courses					
<b>Language Courses and Master Thesis</b>	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		
<b>Total</b>	120	30			30			30			30		

Elective Courses	CP	L	E	Term
Additive Manufacturing in Plastics Processing	4	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
Process Analysis in Manufacturing Technology	5	2	1	WS
Control Engineering	3	1	1	WS
Modeling, Model Reduction and Simulation in Laser Processing - Applications	5	2	2	WS
Industrial Logistics	5	2	1	SS
Multibody Dynamics	6	2	2	SS
Factory Planning	6	2	2	SS
Modeling, Model Reduction and Simulation in Laser Processing - Laser	5	2	2	SS
Production Metrology	5	2	2	SS
Welding and Joining Technologies	6	2	2	SS