

Additive Manufacturing – Suggested Curriculum Overview

1 Semester WS	Compulsory Courses			Elective Courses					
	Mechatronics and Control Techniques for Production Plants	Manufacturing Technology I	Industrial Intelligence Interlaced Quality Management		Elective Course	Elective Course			
	Laser Applications*	Additive Manufacturing I – Technologies and Processes*	Materials for Additive Manufacturing*		Choose 1-2 from these electives <ul style="list-style-type: none"> • Tribology • Gear and Transmission Technology • Simulation Techniques in Manufacturing Technology • Process Analysis in Manufacturing Technology • Control Engineering • Modeling, Model Reduction and Simulation in Laser Processing - Applications 				
	Language Courses								
	German language course								
				and					
2 Semester SS	Manufacturing Technology II	Production Management B			Elective Course	Elective Course	Elective Course		
	Additive Manufacturing II – Engineering and Design*	Welding and Joining Technologies*			Choose 3-4 from these electives <ul style="list-style-type: none"> • Industrial Logistics • Multibody Dynamics • Factory Planning • Modeling, Model Reduction and Simulation in Laser Processing - Laser • Production Metrology • Intelligent Monitoring of Engineering Systems 				
	Language Courses								
	German language course								
3 Semester WS	12-week Internship				Elective Course	Elective Course			
				Language Courses			or		
				Linguistic Elective			Choose 1-2 from these electives <ul style="list-style-type: none"> • Tribology • Gear and Transmission Technology • Simulation Techniques in Manufacturing Technology • Process Analysis in Manufacturing Technology • Control Engineering • Modeling, Model Reduction and Simulation in Laser Processing - Applications 		
4 Semester SS	Master Thesis (six months)								

*Track specific