Curriculum Production Engineering and Automation (B.ENG)

effective from study beginning in winter semester 2019/20

1. Semester	2. Semester	3. Semester	4. Semester	5. Semester	6. Semester	7. Semester
Mathematics for Engineers 1 (6/6)	Mathematics for Engineers 2 (6/6)	Process Organization and Accounting (6/7)	Production and Logistics (4/5)	Industrial Placement (0/22)	Simulation of Production Processes (4/5)	Process Computer Science (4/5)
Statics (6/6)	Dynamics (4/5)	Laboratory Exercises Material Sciences and Manufacturing Methods (3/3)	Numerically Controlled Machines with Laboratory Exercises (5/5)		Student Project (4/6)	Introduction to Robotics (4/4)
Materials Engineering 1 (2/2)	Materials Engineering 2 (4/4)	Design of Machine Elements 1 (4/5)	Engineering Design 3 (2/3)		Fundamentals of Electric Machines and Drives (4/5)	Mandatory subject-specific Elective Module 3 (4/5)
Engineering Design 1 (4/5)	Engineering Design 2 (2/2)	Control Engineering (3/4)	Manufacturing of Polymer Products with Laboratory Exercises (5/5)		Production Planning (4/5)	Welding Technology with Laboratory Exercises (5/5)
Physics (3/3)	Laboratory Exercises Physics (2/3)	Laboratory Exercises Control Engineering (1/1)	Material Flow Systems (4/5)			
Manufacturing Methods (4/4)	Fundamentals of Electrical Engineering and Electronics (4/5)	Applied Programmierung (4/6)	Presentation (2/2)	Project and Quality Management (6/7)	Mandatory subject-specific Elective Module 1 (4/5)	Bachelor Thesis (0/12)
Fundamentals of Thermodynamics (4/5)	Fundamentals of Computer Science for Engineers (4/4)	Measurement Technics (2/2)	Technical English (2/3)		Mandatory subject-specific Elective Module 2 (4/5)	
		Laboratory Exercises Measurement Technics (2/3)				
29 SWS 31 Credits	26 SWS 29 Credits	25 SWS 31 Credits	24 SWS 28 Credits	6 SWS 29 Credits	24 SWS 31 Credits	17 SWS 31 Credits

Explanation: (3/4) means: 3 SWS und 4 ECTS-Credits

Sum Study Programme: 210 ECTS / 151 SWS

Mandatory Elective Modules 1 bis 3
Intelligent Actuators and Sensors
Data Analytics
Digital Factory Planning
Laser Based and Additive Manufacturing
Methods for Product Design and Development
Predictive Maintenance
Standardised Software Systems