

Curriculum Mechatronic Systems Engineering (B.ENG.), part-time effective from study beginning in WiSe 2024/25

1. Semester	2. Semester	3. Semester	4. Semester	5. Semester	6. Semester	7. Semester	8. Semester	9. Semester
Mathematics for Engineers (MA1) (5/46/4)	Mathematics for Engineers (MA2) (5/48/4)	Mathematics for Engineers 3 (MA3) (5/48/4)	Measurement Techniques with Laboratory Exercises (MT) (6/46/4)	Design of Machine Elements (ME) (6/48/4)	Fundamentals of Engineering Design CAD (GKC) (7/68/6)	Project Work (PB) ** (6/0/0)	Industrial Placement (BP) * (25/0/0)	Bachelor's Thesis ** (BA) (15/0/0)
Fundamentals of Electrical Engineering and Electronics (GEE) (6/48/4)	Laboratory Exercises: (PHP) Physics (2/24/2)	Materials Engineering (WTK) (5/46/4)	Applied Computer Science (IA) (5/34/3)	Simulation of Mechatronic Systems (SMS) (5/46/4)	Fundamentals of Business Administration (GBW) (5/46/4)	Project Seminar (PS) (2/12/1)	Specific Course * (SA) (5/0/0)	
Physics (PHV) (5/46/4)	Engineering Mechanics - Statics (STA) (6/48/4)	Engineering Mechanics - Dynamics (DYN) (5/48/4)	Digital Process Chain in Manufacturing (DPF) (5/46/4)	Control Engineering with Laboratory Exercises (RT) (7/68/6)	Project and Quality Management (PQM) (4/32/3)	Sensors and Signal Transmission (SES) (5/46/4)	Applied Literacy (ASK) (3/20/2)	
Technical English (TE) (4/26/2)	Fundamentals of Science for Engineers (GII) (7/46/4)	Internship/Laboratory Exercises* Mechatronic Basics(PME) (5/0/0)	Business English (WE) (4/26/2)	General Scientific Elective Module 1 (AW1) *** (3/24/2)	General Scientific Elective Module 2 (AW2) *** (3/24/2)	Exercises in Digitalisation (PD) (4/26/2)	Technical Documentation (TDO) (2/12/1)	
						Introduction to Law (ER) (4/32/3)	Mandatory Elective Module 1 (FW1) *** (5/44/4)	Mandatory Elective Module 2 (FW2) *** (5/44/4)
						Accounting and Controlling (KLC) (4/32/3)	International Decision Making (IHK) (5/30/3)	
20 Credits 166 UE / 14 SWS	20 Credits 166 UE / 14 SWS	20 Credits 142 UE / 12 SWS	20 Credits 152 UE / 13 SWS	21 Credits 186 UE / 16 SWS	19 Credits 170 UE / 15 SWS	25 Credits 148 UE / 13 SWS	45 Credits 106 UE / 10 SWS	20 Credits 44 UE / 4 SWS
1. Study phase (40/332/28)		2. Study phase (80/650/56)				3. Study phase (90/298/27)		

Explanation: (4/32/3) means: 4 ECTS-Credits and 32 Lesson units or 3 SWS Unterrichtseinheiten oder 3 SWS

Sum Study Programme: 210 ECTS / 1280 UE / 111 SWS

* Realisation outside the university, is usually credited from professional activity or further professional training.

** Topic can optionally be worked on as part of the professional activity.

*** Crediting of relevant vhb courses possible.