

# English-taught study-programme **Mechatronics and Automation** (MAU) Campus Gütersloh

1st semester	2nd semester	3rd semester	4th semester	5th semester	6th semester	7th semester
Principles of Economics	Innovation & Project Management	Engineering Mechanics – Statics and Strength of Materials	Engineering Mechanics - Kinematics and Kinetic	Basics of Mechanical Design	Mechatronic Systems 1	Mechatronic Systems 2
Future Technologies & Sustainability	Electrical Engineering 1	Electrical Engineering 2	Electrical Measurement Technology	Electrical Machines	Control Technology	Drive Technology
Introduction to German Culture & Language / Intercultural Communication <sup>1</sup>	Physics	Digital Electronics	Semiconductor Devices and Circuits	Measuring Systems and Sensor Technology	Power Electronics	
Basics of Programming	Object Oriented Programming	Databases		Industrial Automation Technology	Microcontroller Programming	Industrial Communication
Mathematics I	Mathematics II	Mathematics III	Statistics			Bachelor - Thesis
			Project 1 <sup>2</sup> (180 h)	Project <sup>2</sup> (180 h)	Practical Project / Internship <sup>3</sup> (180 h)	
(25 CP / 20 SWS)	(25 CP / 20 SWS)	(25 CP / 20SWS)	(26 CP / 16 SWS)	(26 CP / 16 SWS)	(26 CP / 16 SWS)	(27 CP / 12SWS)

Legend: **Engineering**, **Business Administration**, **Computer Science**, **Mathematics**, interdisciplinary module

<sup>1</sup> For German-speaking students

<sup>2</sup> Project at the university or at a company

<sup>3</sup> Internship at a company (compulsory)