

Master Biomedical Engineering (BMT)

Courses offered in the winter semester 2026/2027

Stand 15.09.2026

Courses takes place

Courses doesn't take place

still unclear, further information to follow

Categories of courses

1. **On-Site-format:** The contents relevant to examinations are taught exclusively on site. In addition to
2. **Combi-format:** The exam-relevant content is taught on-site and online. Teachers can post exam-relevant online
3. **Hybrid-format:** The contents relevant to the examination are taught equally well both on-site and online. As a
4. **Online-format:** The contents relevant to the examination are taught exclusively online. The lecturers can post

I) Master Biomedical Engineering (BMT)

<i>Lectures</i>	<i>Lecturer</i>	<i>Language</i>	<i>Format</i>
Core Modules Engineering Sciences (ING)			
Introduction to Deep Learning	Prof. Karlen	English	On-Site
Integrierte Analogschaltungen (WS) / Integrated Analog Circuits	Prof. Ortmanns	German	On-Site
Softwaretechnik	Prof. Heinrich	English	On-Site
Neuromorphic Engineering: Bio-inspired Sensing	Prof. Lenk	English	On-Site
Core Modules Biomedical Engineering (BMT)			
Appropriate Medical Device Design	Prof. Karlen	English	On-Site
Bioinformatics and Systems Biology	Prof. Kestler	English	On-Site
Biophysics Lecture Series	Prof. Gebhardt, Prof. Gottschalk, Prof. Michaelis, Prof. Serwane	English	On-Site
Biosensoren	Prof. Lenk	English	On-Site
Fundamentals of Sustainable Development	Prof. Karlen, Dr. Justiz	English	On-Site

Medical Wearables I	Prof. Karlen	English	On-Site
Neurotechnology: Brain-Machine-Interfacing	Prof. Braun	English	On-Site
Core Modules Health Sciences (HEALTH)			
Humangenetik	Prof. Kehrer-Sawatzki , Prof. Ammerpohl, Prof. Siebert	German	On-Site
Introduction to Psychological Methods and Statistics (for	Prof. Ernst	English	On-Site
Störungs- und Verfahrenslehre I	Prof. Baumeister	German	On-Site
Seminars			
Seminar Forschungstrends in biomedizinischer Sensorik und Systemen (SoSe) / Seminar Research Trends in Biomedical Sensors and Systems (WiSe)	Prof. Lenk	German/English	On-Site
Seminar Forschungstrends im Bereich biomedizinische Signale, Daten und Algorithmen/ Seminar Research Trends in Biomedical Signals, Data & Algorithms	Prof. Karlen	German/English	On-Site
Seminar Research Trends in Sustainable Health Technology	Prof. Karlen, Dr. Justiz	German/English	On-Site
Practical Modules			
Project Biomedical Sensors and Systems	Prof. Lenk	German/English	On-Site
Project Biomedical Signals, Data, & Algorithms	Prof. Karlen	German/English	On-Site
Project Sustainable Health Technologies	Prof. Karlen, Dr. Justiz	German/English	On-Site
Specialisation Modules			
Advanced Optoelectronic Communication Systems	Prof. Michalzik	English	On-Site
Angewandte Biomechanik und Orthopädische	Prof. Liebsch, Prof. Wilke	German	On-Site
Biologische Psychologie	Prof. Pollatos	German	On-Site
Einführung in die Optoelektronik	Prof. Michalzik	German	On-Site
Filter- und Trackingverfahren	Prof. Dietmayer	German	On-Site
Identifikation dynamischer Systeme	Dr. Buchholz	German	Combi
Information Theory	Prof. Fischer,	English	On-Site
Materials Science I	Prof. Herr	English	On-Site
Modellbildung dynamischer Systeme	Dr. Buchholz	German	Combi
Molecular Motors	Prof. Gebhardt	English	On-Site
Nachhaltige Unternehmensführung	Prof. Müller	German	On-Site

Narrative für eine Nachhaltige Gesellschaft	Prof. Müller	German	On-Site
Pattern recognition	Prof. Schwenker	English	On-Site
Privacy Engineering and Privacy Enhancing Technologies	Prof. Kargl	English	On-Site
Quantum Sensing I	Prof. Bongs	English	On-Site
Softwarequalitätssicherung	Prof. Tichy, Dr. Raschke	German	On-Site
Systemtheorie	Prof. Deutscher	German	On-Site
Terahertz Sensors	Prof. Damm	English	On-Site
Thin Films	Prof. Herr	English	On-Site