

The English-language degree program offers a deep insight into the development of new eHealth applications and medical devices.

The two focal points of the program are Medical Engineering and eHealth. This involves the development of medical devices from a scientific and electronic point of view as well as software development. Specialization is possible in electives such as respiratory technology, photonics, medical information systems or mobile applications. There are also extensive international research projects at UAS Technikum Wien.

„We will all be able to do more to promote our health in the future. Our graduates are ideally prepared for this upheaval in health care.“

Stefan Sauermann, Program Director

CAREER PROSPECTS

Graduates can design, build and use medical devices as biomedical engineers, they can design eHealth applications and train medical staff. As medical technology and quality assurance officers, they are employed by various companies; they also work directly in hospitals or other healthcare facilities. New applications in medical technology as well as in eHealth are causing serious changes in this field and students can play an important role in this process.

**FACT
BOX**

GRADUATION: Master of Science in Engineering	DURATION: 4 Semester
ORGANIZATION: Full-time	STUDY PLACES: 25 per year
LANGUAGE: ENGLISH	APPLICATION DEADLINE May 31,2021
ATTENDANCE: MON TO THU 2.30-9PM, FRI MOSTLY OFF	
TUITION: € 363.36 plus € 20.20 for the Austrian National Union of Students (ÖH) per semester.	

CURRICULUM MEDICAL ENGINEERING & EHEALTH

1ST SEMESTER	ECTS
Applied Research & Development 1	8.50
Project-Related Teamwork 1	
Team Management Skills	
Workflows in Medicine	
Economic & Legal Issues	5.50
Advanced English	
Corporate Management in Life Science Technologies	
EU-Law	
Engineering in Medicine	8.00
Cellular Electrophysiology and Bioimpedance	
Microprocessor Applications in Medicine	
Elective Module 1	8.00
Engineering for Therapy & Rehabilitation	
Applications for Crowdsourced Healthcare	
Medical Information Systems	
Modelling in Cardiovascular Systems	
2ND SEMESTER	
Scientific Methodology in Healthcare	7.00
Study Design and Biostatistics	
Ethics	
English Writing Skills	
Scientific Publishing	
Quality and Policies for Healthcare	8.00
Quality and Regulatory Affairs Management	
eHealth Applications	
Elective Module 2	8.00
Bioinformatics	
Artificial Intelligence	
Electromagnetic Compatibility	
Advanced Optics	
Applied Research & Development 2	7.00
Project-Related Teamwork 2	
Project Management and Leadership Skills	

3RD SEMESTER	
Methods of Scientific Research	10.00
Research and Development Seminar	
Elective Module 3	8.00
Applied Optics in Medical Devices	
Image Analysis	
Respiration Technologies	
Biosignal Processing	
Advanced Clinical and Data Engineering	8.00
Clinical Engineering	
Advanced Analysis of Medical Data	
Exploring the Health Ecosystems	4.00
Economics and Marketing	
Selected Problems in Medical Engineering & eHealth	
4TH SEMESTER	
Masters Thesis	30.00
Seminar for Degree Candidates	
Writing the Master's Thesis	