



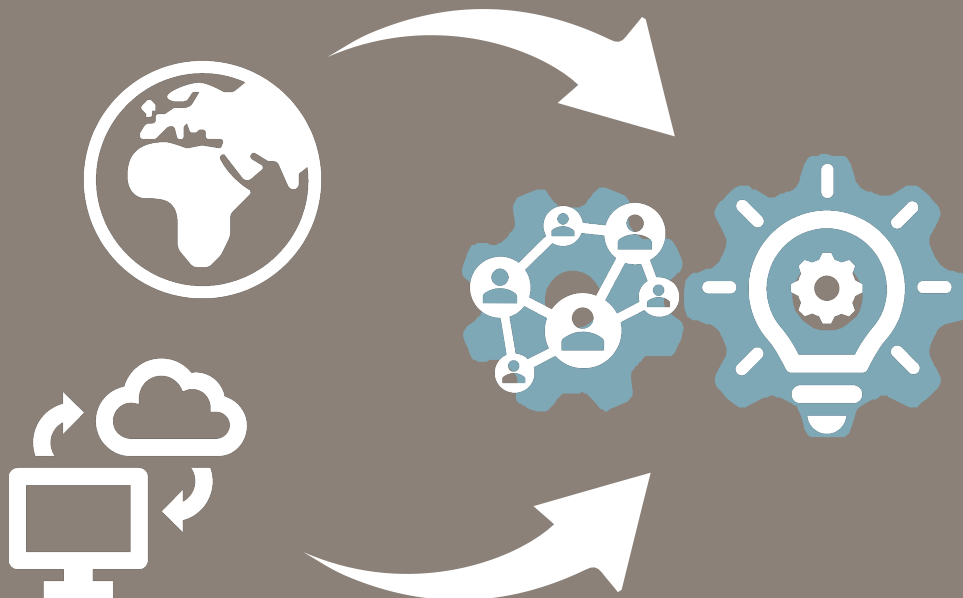
B.Eng.

Medical Engineering

Degree Programme Presentation

Improving people`s health by innovative medical devices for a global market

Globalization and digitalization are changing fundamentally how industry and businesses operate



01

People`s health – medical devices must be safe and reliable – medical engineers must have both engineering and medical expertise

02

Medical Device Industry is innovative – using the latest technology for new applications

03

In addition to knowledge, further skills are essential: creativity, languages, intercultural competence, agility, team work ...

Come and i-study with us



interdisciplinary

Broad and at the same time in-depth curriculum with high application relevance and project work

international

Fully taught in English while still acquiring at least B2.2 German skills, international internship, cooperation with partner universities

individual

Many elective modules, entrepreneurship and research projects to realize own ideas, different study paths to address different language levels

Engineering

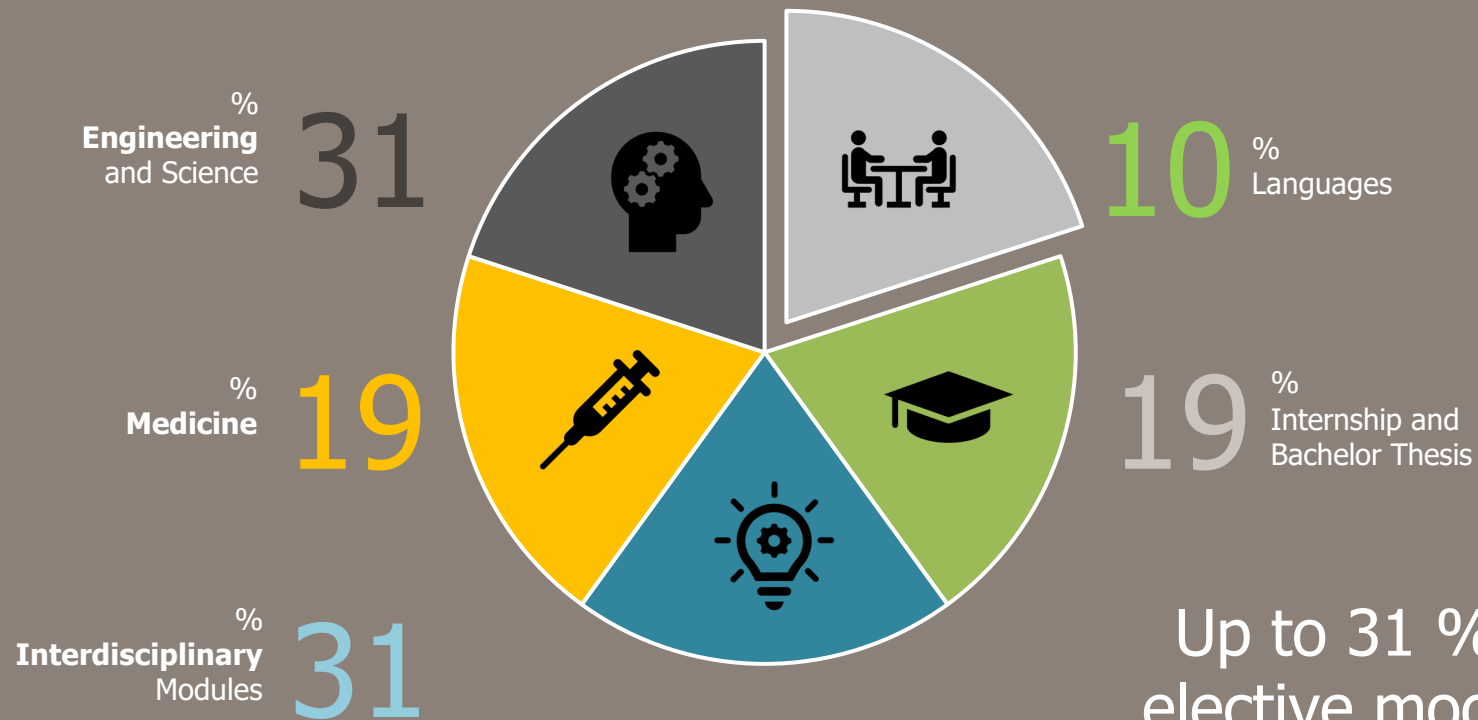
Understand and apply the necessary technology, computer science and engineering for innovative medical devices

This is how we do it



Spotlight on
the curriculum

Interdisciplinary curriculum



Up to 31 % are elective modules.

Course of Study

Semester	Engineering/Technology (each 5 ECTS)		Medicine (each 5 ECTS)		Interdisciplinary(each 5 ECTS)	
Winter 1 30 ECTS	Mathematics I <i>T1</i>	Technical Mechanics <i>T2</i>	Anatomy and Physiology <i>M1</i>	Microbiology and Biophysics <i>M2</i>	German I / Basic Elective <i>I1</i>	Informatics <i>I5</i>
Summer 2 30 ECTS	Mathematics II <i>T3</i>	Mechanical Development <i>T4</i>	Medial Device Technology <i>M3</i>		German II / Basic Elective <i>I2</i>	Statistics and quantitative Methods <i>I6</i> Intercultural Communication <i>I7</i>
Winter 3 30 ECTS	Production Technology <i>T5</i>	Physics <i>T6</i>	Qualitymanagement and Regulatory Affairs <i>M4</i>		German III / Basic Elective <i>I3</i>	Object Oriented Coding <i>I9</i> Project Management & Agile Methods <i>I8</i>
Summer 4 30 ECTS	Industrial Engineering <i>T7</i>	Electrical Engineering <i>T8</i>	Materials Engineering <i>T9</i>	Medical Imaging <i>M5</i>	German IV / Basic Elective <i>I4</i>	Databases <i>I10</i>
Winter 5 30 ECTS	Internship (Practical Semester, 30 ECTS) <i>PS</i>					
Summer 6 30 ECTS	Science/Technology Elective 1	Science/Technology Elective 2	Medical Elective 1	Medical Elective 2	Interdisciplinary Elective 1	Interdisciplinary Elective 2
Winter 7 30 ECTS	Science/Technology Elective 3	Science/Technology Elective 4	Medical Elective 3		Interdisciplinary Elective 3	Bachelor Thesis (10 ECTS) <i>BA</i>

A truly international study programme

English

The program is fully English-taught.

German

- Improve your German to at least level B2.2 or even C1
- Some electives can be chosen in German
- Already an expert in German? Discover new or extend your knowledge of other foreign languages



Intercultural competence

- Specific module teach intercultural competencies
- Multicultural student groups
- Lots of teamwork to experience intercultural challenges
- WIGCares programme and helping hands

Work and study

- Internship in a country different from your home base
- Semester abroad in exchange programmes with partner universities around the world

Design your own study programme

4 of 13

Engineering/Technology Electives:

Select electives like Robotics, IoT Technology or Digital Image Processing.

3 of 8

Medical Electives:

Select electives out of a variety of modules that cover different aspects of the medical device industry.

3 of 9

Interdisciplinary Electives:

Select electives like Usability Engineering, Smart Factory or Blockchain.

4

Language Electives:

Already reached level B2.2 in German? Then you can select other electives instead of German classes.



Job Opportunities and Product Areas



- Development engineer

- Project manager

- Regulatory Affairs Manager

- Process planning engineer

- Quality Engineer

- Product Manager

- And so many more...



Medical Apps

Single Use Medical Devices

Large Medical Equipment

Medical Software

Service provider to medical industry,

e.g. sterilization, packaging . . .

And more...

This degree program is just right for you if ...



you want to work as an engineer at the interface between medicine and technology



... you view working in interdisciplinary teams with international personnel not a challenge but also a destiny



... believe in medical products and devices that give people all over the world a better quality of life



...you want to become part of an innovative industry that really makes a difference in lives globally

Admission requirements

Application

*This is the most exciting
study programme I
have ever heard about!
I can't wait to start.
Please find attached ...*



University entrance qualification



Proof of English B2



Proof of German A2

Your road to OTH



International applicants who have not obtained their higher education entrance qualification in Germany must have their credentials reviewed and approved by UniAssist.

01

Enrolment: preliminary admission letter, registration on our student administration platform, upload of documents and payment of administrative fee, issue of student I.D. card and enrolment document

03

02

Registration, Residence Permit, Health Insurance, Housing

Application period for the winter term: 1 May - 15 July
If the number of applicants is lower than the number the University can take in, the application period may be extended.

04

We won't let you d(r)own!

1

Even before the semester start, we offer an **international orientation week and the "fit for studying" programme** providing you with all the necessary info to get you started.

2

In the university's **WIGCares programme**, students from higher semesters take first-year students "by the hand", passing on their knowledge about studying and student life.

3

Last, but not least: Thanks to **small student groups**, professors, lecturers and support staff quickly get to know you by name. We are quickly accessible and try to address any problems that might come up.



Happy to help

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Where can I find more information?

Find out more about the university, the study programme and our support system on our websites:



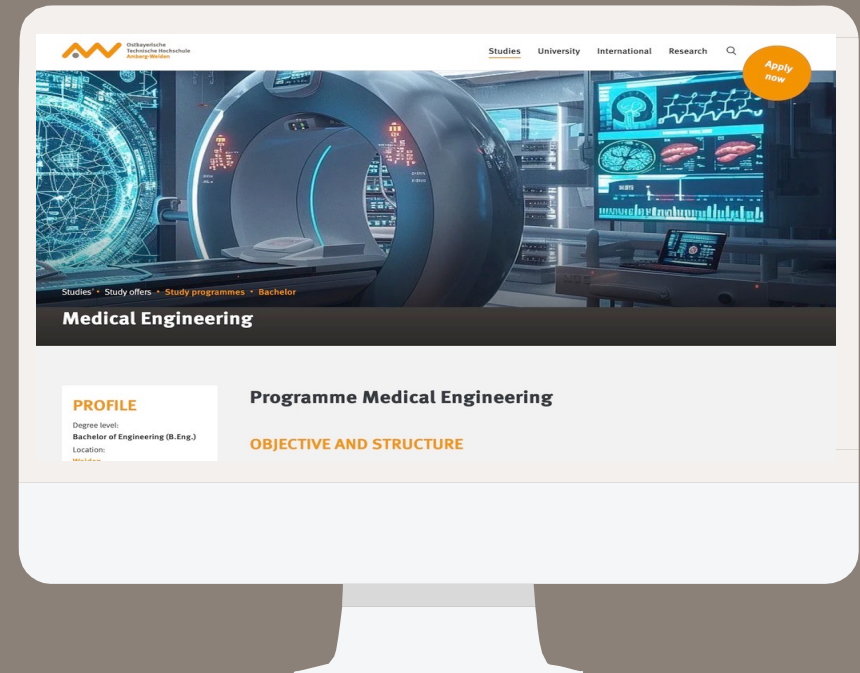
The study programme's website
www.oth-aw.de/ime



Our International Office
<https://www.oth-aw.de/en/international/internationales-profil/international-office/>



The university in general
<https://www.oth-aw.de/en/>



Key Facts & Figures about the Study Programme



Bachelor of Engineering (B.Eng.)



Approx. 30 per semester



7 semesters, 210 ECTS



Start in winter



English-speaking program,
Qualifying students to German Level B2.2
Other languages optional



Application period:
for winter term: May 1 –July 15
in some semesters , periods may be extended



Taught on campus
in Weiden (Bavaria, Germany)



500 Euro per semester

OTH Amberg-Weiden at a glance

Key figures (Year 2022/23)

4 departments

Electrical Engineering, Media and Computer Science
Mechanical/Environmental Engineering
Weiden Business School
Industrial engineering and health

1,528 first-year students¹

1.038	for the winter semester 2022/23		
490	for the summer semester 2023		
Winter term 2022/23	OS* 14	Bachelor 891	Master 133
Summer term 2023	OS* 9	Bachelor 356	Master 125

450 employees²

108	Professors
16	Teachers for special tasks
98	Research assistants
228	Non-scientific employees

52 study programmes

27	Bachelor degree programmes
17	Master's degree programmes (consecutive)
7	Continuing education masters
1	Orientation programme prepareING

4,035 students¹

1.491	at the Amberg site		
2.532	at the Weiden site		
12	Cross-location (prepareING)		
OS* 12	Bachelor 3,245	Master 778	
	weiblich 1,491	männlich 2,544	

International

1.146	foreign students
98	Partner universities in 42 countries
3	Double-degree programmes

Partners / Networks

26	Innovative Learning Locations (ILO)
33	PartnerCircle members

Sources:

¹ Student statistics - Primuss, as at 01/06/2023;

² SAP VIVA, status: 01/03/2023;

Footnote:

*OS: Orientation programme prepareING (module study)

Ready for lift-off? Join us and apply today!

B.Eng. Medical Engineering
www.oth-aw.de/ime

