



Deutscher Akademischer Austauschdienst
German Academic Exchange Service



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Master's degree



Research in Media Engineering

Technische Universität Ilmenau • Ilmenau



Overview

Degree	Master of Science
Teaching language	<ul style="list-style-type: none">• English• German
Languages	<p>Courses are held in English (50%) and German (50%). Participants can choose to write their Master's theses in either language.</p> <p>The programme can also be studied completely in English.</p>
Full-time / part-time	<ul style="list-style-type: none">• full-time
Programme duration	4 semesters
Beginning	Winter and summer semester
Application deadline	<p>Winter semester</p> <p>Application period for students with certificates from non-EEA / international countries: 16 January – 15 May</p> <p>Application period for students with certificates from EEA countries, Switzerland, or the UK: 16 April – 15 September</p> <p>Summer semester</p> <p>Application period for students with certificates from non-EEA / international countries: 1 August – 15 November</p> <p>Application period for students with certificates from EEA countries, Switzerland, or the UK: 16 October – 15 March</p> <p>Foreign applicants who need to apply for a visa to enter Germany should submit their application at least three months before the application deadline.</p>
Tuition fees per semester in EUR	None

Combined Master's degree /
PhD programme

No

Joint degree / double degree
programme

No

Description/content

In the Research in Media Engineering (RME) Master's programme, students are encouraged to translate personal inspirations and curiosities into their own research projects. In order to make the programme more flexible, we thus group connecting fields into the following main focuses:

- Media Technology
- Signal Processing and Transmission
- Practical Computer Science
- Graphic Imaging and Virtual Techniques
- Light and Optics
- Usability

Examples of these priorities include the following modules:

- Audio Signal Processing & Audio Systems
- Advanced Psychoacoustics
- Audio Coding
- Video Coding
- Video Systems Technology
- Image, Video, and Perception
- User-Centric Engineering
- Communication Networks
- Multirate Signal Processing
- Adaptive and Array Signal Processing
- Mobile Communications
- Practical Informatics
- Neuroinformatics
- Advanced Computer Graphics
- Game Development
- Virtual Reality in Industry
- Technical Optics

Students can combine these modules according to their interests and goals. Typical module combinations for job possibilities in research, development, and management include the following examples:

- Audio Engineering
- Video Engineering
- Augmented and Virtual Reality
- User Interface Design
- Multimedia Engineering
- Lighting Engineering
- Television Studio Engineering

Course Details

Course organisation

The programme offers a great variety of interdisciplinary fields of specialisation and will be completed in four semesters.

Within the first three semesters, the programme offers courses in three different categories:

- Core modules from Media Technology, including a mandatory research seminar (25 ECTS), e.g.:
 - Audio Signal Processing and Audio Systems
 - Audio Coding
 - Crowdsourcing and Human-Based Computing

- Image, Video, and Perception
- Video Systems Technology
- Advanced Psychoacoustics
- User-centric Engineering
- Multimedia Standards
- Media project (10 ECTS) as group work or a research project (20 ECTS) as individual work, allowing students to apply their new knowledge and inspirations
- A wide selection of modules from other engineering fields (50 ECTS if media project was chosen, 40 ECTS if research project was chosen) to individualise your study experiences and goals, e.g.
 - Human-Machine Interaction
 - Deep Learning
 - Virtual and Augmented Reality
 - Mobile Communications
 - Applied Neural Computing
 - Light-Human Interaction
 - Game Development
 - Fundamental of 3D-Image Processing
- Soft skills (5 ECTS)
 - Language module or "studium generale"

In the fourth semester, the Master's thesis (30 ECTS, independent work on a research project) is completed, including a thesis colloquium (defence of the work).

The completion of the Master's thesis will allow students to enter a subsequent PhD programme at TU Ilmenau.

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A Diploma supplement will be issued	Yes
Course-specific, integrated German language courses	No
Course-specific, integrated English language courses	No

Costs / Funding

Tuition fees per semester in EUR	None
Semester contribution	Approx. 150 EUR per semester (including a train ticket and reduced prices in the university canteen and cafeterias)
Costs of living	Approx. 860 EUR per month (including apartment rent)
Funding opportunities within the university	Yes
Description of the above-mentioned funding opportunities within the university	<p>Students at TU Ilmenau do not pay tuition fees; instead, they only need to pay the semester contribution of approximately 150 EUR per semester.</p> <p>Further information on funding opportunities is available at: https://www.tu-ilmenau.de/en/international/service/we4you-student-service/funding-opportunities</p>

Requirements / Registration

Academic admission requirements

Bachelor's degree in electrical engineering, computer science, or computer engineering of at least six semesters (180 credits) from a university.

Basic knowledge of media technology (audio, video) is very helpful for a successful start to your studies.

Language requirements

Applicants must provide proof of their proficiency in English at level C1 with one of the following certificates:

- TOEFL IBT 95
- TOEIC 945
- IELTS 7
- CEFR C1
- CAE

Application deadline

Winter semester

Application period for students with certificates from non-EEA / international countries: 16 January – 15 May

Application period for students with certificates from EEA countries, Switzerland, or the UK: 16 April – 15 September

Summer semester

Application period for students with certificates from non-EEA / international countries: 1 August – 15 November

Application period for students with certificates from EEA countries, Switzerland, or the UK: 16 October – 15 March

Foreign applicants who need to apply for a visa to enter Germany should submit their application at least three months before the application deadline.

Submit application to

Online application: <http://www.tu-ilmenau.de/apply>

Services

Possibility of finding part-time employment

Temporary jobs are available at local enterprises. In some departments of TU Ilmenau, Master's students are regularly employed as scientific assistants.

Accommodation

Various student residences are available on campus. The rent in the residences is between 250 EUR – 350 EUR per room and month, depending on the type of residence. Registration is required in advance at the administering office of the "Studierendenwerk Thüringen".

Information on the residences and registration can be found at: <https://www.stw-thueringen.de/en/housing/>

Student applicants have a good chance of getting a room if the application for a room is submitted in good time, approx. three months before the start of the semester.

Of course, there is also the option to look for a privately rented apartment/room in Ilmenau or the surrounding area. For further information on privately rented accommodation, please contact TU Ilmenau's international student service, we4you: <https://www.tu-ilmenau.de/en/international/service/we4you-student-service/team>

Career advisory service

TU Ilmenau's we4you career counselling service provides assistance to international students, enabling an easier transition from the classroom to the working world.

Through individualised career counselling, workshops on CV writing, and interview practice, we give students the tools they need to succeed in today's job market. Opportunities for internships and part-time or graduate jobs are further bolstered by our industry network and accessible job portal. Visits to local and nationwide job fairs are also on the agenda. These activities and events seek to equip students with the tools to confidently pursue their professional aspirations in the region surrounding the university, in Germany, and beyond.

For more information, visit: <https://www.tu-ilmenau.de/en/international/service/we4you-student-service/career-counseling>

Support for international students and doctoral candidates

- Welcome event
- Buddy programme
- Tutors
- Specialist counselling
- Visa matters
- Help with finding accommodation
- Support with registration procedures
- Accompanying programme
- Cultural and linguistic preparation

General services and support for international students and doctoral candidates

TU Ilmenau offers an international student service called we4you, aimed at supporting prospective and current students during the application and arrival process, everyday student life, and beyond. The we4you team provides advice, organises events and excursions, and helps students feel comfortable in Ilmenau.

For online and on-site we4you support, please visit: <https://www.tu-ilmenau.de/en/international/service/we4you-student-service>

Technische Universität Ilmenau



Campus of the Technische Universität Ilmenau

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Technische Universität Ilmenau is a public university with a strong focus on research. Located in the centre of Germany, it has a long tradition in engineering and natural sciences, making it a sought-after destination for interdisciplinary research and education. With five faculties dedicated to delivering cutting-edge and sustainability-oriented programmes, the university offers 19 Bachelor's degree programmes, 25 Master's degree programmes, and doctoral education designed for real-world impact. Interested students can apply for a programme in the fields of engineering (e.g. Biomedical Engineering, Automotive Engineering, Mechanical Engineering), technology (e.g. Computer Science, Micro and Nanotechnologies, Renewable Energy Technology), mathematics (e.g. Business Mathematics), natural sciences (e.g. Biotechnical Chemistry, Technical Physics), or economic and social sciences (e.g. Media and Communication Science, International Business Economics). Many of the university's programmes are taught in English, and the large number of registered patents per staff provides just one example of the university's many innovation activities. Students at Technische Universität Ilmenau enjoy a great supervision ratio, access to excellent facilities conducive to research-driven learning (including modern labs and makerspaces), and career counselling and events to support global professional connections. The we4you international student service assists students in integrating into the university's vibrant campus community, which comprises over 100 nationalities. Through its extensive national and international partnership network and mobility options, Technische Universität Ilmenau fosters the expertise and personal development of its students and staff.



📍 University location

Ilmenau is a vibrant hub of innovation and enterprise, where tradition intertwines with a strong focus on the future. The university town with its approximately 40,000 residents is situated in the centre of Germany in the federal state of Thuringia. Thuringia is known for its rich cultural heritage, with influential historic figures such as Goethe, Bach, and Luther having strong ties to the region. Thuringia offers stunning green landscapes, meandering rivers, and idyllic lakes, with the Thuringian Forest covering large areas of the state. In Ilmenau, the Kickelhahn monument – situated atop the verdant woods – serves as a tribute to Goethe's profound connection to the town. It not only offers breathtaking panoramic views of the Thuringian landscape but also features verses from Goethe's immortal poetry, translated into multiple languages. Thuringia has a strong tradition of academic excellence and innovation, particularly in the fields of technology, engineering, and biotechnology.

Ilmenau, located in the picturesque valley of the Ilm River and nestled in the northern foothills of the Thuringian forest, is more than a living monument to the past. Once renowned for its exquisite glass and porcelain craftsmanship, Ilmenau pulsates with a dynamic energy as a science and technology centre.

For TU Ilmenau students, this blend of heritage and innovation offers ample opportunities, such as forging connections with experienced and visionary mentors, fellow students, and pioneering companies. It allows them to immerse themselves in a realm where theoretical knowledge meets real-world application.

Ilmenau is well-connected by public transport and positioned at an equal distance (about two hours) from the major German cities of Berlin, Frankfurt, and Munich, as well as their international airports.

Contact

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🌐 Course website: <https://www.tu-ilmenau.de/en/study/before-the-study/range-of-courses/master/research-in-media-engineering-msc>

🌐 <https://www.linkedin.com/school/tu-ilmenau/>

📺 https://www.youtube.com/channel/UC7A1G7hdL0XdFmnybaey_SA

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Disclaimer

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