

ECE at a glance

Name of **Electrical Communication Programme** Engineering (ECE), Dept. Electrical Engineering/Computer Science, University of Kassel Degree Master of Science (MSc) in Electrical **Communication Engineering Starting Dates** Winter semester (starting in October) or Summer semester (starting in April) Four semesters including Master **Programme** Duration thesis, 120 ECTS credits English Language

Contact

Information on application eceassist@uni-kassel.de

On-site information ececoach@uni-kassel.de

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More information www.ece.uni-kassel.de







Electrical Communication
Engineering (ECE)
Master of Science Programme



Your ambition - our excellence

Requirements

- BSc in Electrical Engineering or equivalent with a maximum degree of 2.5 (German marking system)
- evidence of English language proficiency (level B2 (TOEFL, IELTS or alike) or mother tongue)

Information: www.uni-kassel.de/go/ece

Application: www.uni-kassel.de/go/ece-application

Location

Kassel University is an ambitious and modern academic institution (founded in 1971) and has committed itself to international cooperation and interdisciplinary research. It hosts guests from over 100 countries among its 23,000 students with a share of about 17 percent of international students: www.uni-kassel.de/uni/en.

The city of Kassel (215,000 inhabitants) on the River Fulda is located in the heart of Germany and the center of Europe. Surrounded by forests and mountains, it offers many cultural attractions like concerts, opera and theatres, in particular the world famous "documenta", the biggest exhibition of contemporary art: www.documenta.de/en/#.

Special Services

The International Office of the University of Kassel offers support in administrative matters and finding accommodation. The ECE team guides students in introductory meetings, by intensive coaching and counseling, regular meetings and excursions during studies to national and/or international companies and research institutions in communications.

Fees

No tuition fees are charged in the state of Hesse, but a compulsory semester contribution per term (about 340 Euro in summer term 2024) including a semester ticket for free public transport in Kassel and reduced prices at the university's refectories and cafeterias.



Optoelectronics and Optical Communication

Optoelectronic Devices, Semiconductor Lasers, Microsystem Technology, Fabrication Technology, Clean Room Technology, Nanosensorics, Optical Metrology, Optical Communications.



Wireless Communications



Cross-Layer Optimization and Machine Learning.

Enabling Technologies for Communication Systems

Internet Technologies and Measurements, Internet of Things, Mobile Networks, Artificial Intelligence and Software Technologies, Classification and Clustering, Machine Learning and Pattern Recognition, Temporal and Spatial Data Mining, Information Security.



Microwave Technology

Transmission LineTheory, UWB Microwave
Radar, Terahertz Communications, High-Efficiency
Linear Amplifiers and Oscillators, RF Sensor
Systems, Design and Fabrication of High Gain
Antennas, Optical Communication Systems.



Electromagnetics

Numerical Methods in Electromagnetics,
ElectromagneticTheory for Microwaves and
Antennas, Theory and Modelling of Semiconductor
Devices, Fields and Waves in Optoelectronic Devices,
Electronic and Photonic Structures from Macro
to Nano Scales for Sensing and Information and
Communication Systems.

