



Contact

Anke Aref, M. A.
Student Services EECS
University of Kassel
34121 Kassel
ece@eecs.uni-kassel.de
www.ece.uni-kassel.de

UNIKASSEL | ELECTRICAL
VERSITÄT | ENGINEERING
COMPUTER
SCIENCE

Electrical Communication Engineering (ECE) Master Program

ECE at a glance

Name of Program	Electrical Communication Engineering (ECE)
Degree	Master of Science in Electrical Communication Engineering
Starting Dates	Winter semester (starting in October) or Summer semester (starting in April)
Program Duration	Three semesters including Master thesis
Language	English

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Admission Requirements

BSc in Electrical Engineering or equivalent. Evidence of very good knowledge of the English language to the level of B2 according to the Common European Framework of Reference for Languages CEFR must be presented. This evidence is granted for applicants, if English is the mother tongue, or previous studies were completely conducted in English.

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 24000 students. The city of Kassel (200000 inhabitants) on the River Fulda is located in the heart of Germany. The Brothers Grimm lived in Kassel for many years. Surrounded by forests and mountains, it offers many cultural attractions like concerts, opera and theatres, in particular the world famous “documenta” exhibition of contemporary art.

www.kassel.de

Special Services

Convenient accommodation and service packages for assistance in administrative matters, in finding accommodation, cultural and social programs, welcoming ceremony, introductory and orientation events, intensive study guidance and counselling.

Fees

No tuition fees are charged in the state of Hesse. However, a compulsory semester contribution (about 280 Euros in winter term 2015/2016) is charged. This includes 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, Micro-system Technology, Fabrication Technology, Clean Room Technology, Nanosensorics, Optical Metrology, Optical Communications.

Microwave Technology



Transmission Line Theory, Measurement of S-Parameters, FETs, Shockley's Model, Linear Amplifiers and Oscillators, Power Amplifier, RF Sensor Systems, RFMEMS.

Mobile Internet



Mobile Distributed Systems, Middleware, Pervasive Computing, Context Awareness, Programming of Phidget Sensors and SunSPOTs with Java ME. Complete System/Application Approach (Bluetooth, RFID, NFC, GSM/GPRS/EDGE, UMTS/HSPA/LTE) and Mobiles (Android, iOS, Symbian, RIM, Windows).

Digital Communications



Wireless and Broadband Communications, Signal Detection and Estimation, Signal Processing, MIMO Systems, Mobile Radio, PHY and MAC Layer Protocols in Wireless and Mobile Radio Systems (e.g. WLANs, WPANs, UMTS, LTE, Ad-Hoc and Sensor Networks).

Electromagnetics



Numerical Methods, Electromagnetic Theory for Microwaves and Antennas, Theory and Modelling of Semiconductor Devices, Fields and Waves in Optoelectronic Devices.