



TECHNIK . WIRTSCHAFT . SOZIALWESEN

Bachelor full-time / English

Bachelor of Engineering (B. Eng.)

ELECTRICAL ENGINEERING AND INFORMATION TECHNOLOGY



HOCHSCHULE
RAVENSBURG-WEINGARTEN
UNIVERSITY
OF APPLIED SCIENCES

AT A GLANCE



Final Degree

Bachelor of Engineering
(B.Eng.)



Period of Study

7 semesters, including an
internship, full-time



Closing Dates

15 November (Summer Term),
15 July (Summer Term)



Start

Summer Term (in English)
Winter Term (in German)

Admission Requirement

Higher education entrance qualification or
equivalent

ECTS

The course of study includes
210 Credits

Online-Bewerbung

www.rwu.de

Dean of studies

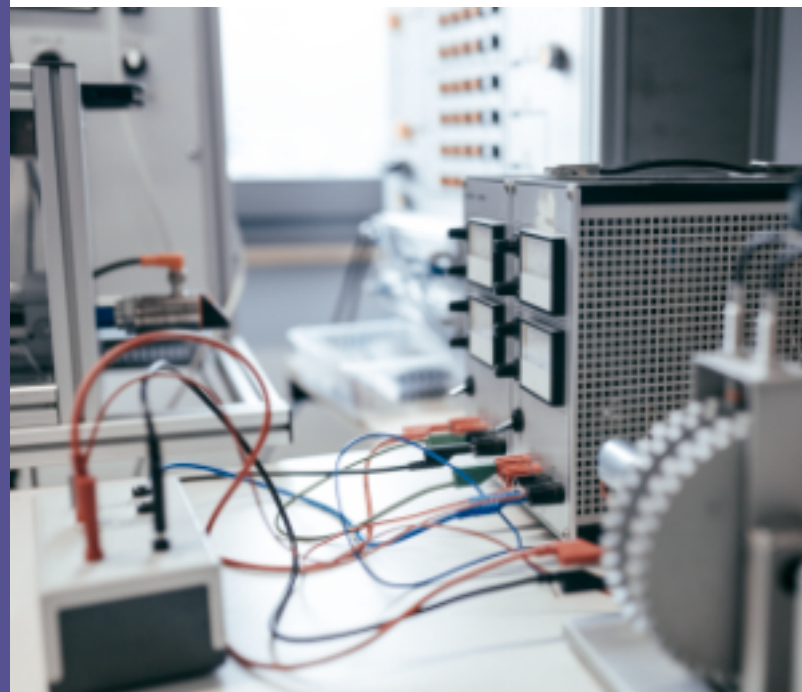
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KNOWLEDGE & PRACTICAL SKILLS

New fast and efficient transmission technologies are the key to new communication technologies in the

Modern life is not possible without electrical and electronic technologies, and it is amidst this modern life that electrical engineers will find their place. Almost all aspects of life benefit from their expertise.

Whether it is simple household appliances that have become more energy-efficient, or satellite technology used for communication, or autonomous systems and control systems, electrical engineers are involved everywhere contributing their expertise to ensure an essential part of the product's and company's success.



STUDY PROGRAM & CURRICULUM CONTENT

Shape the future in the era of change.

The »Electrical Engineering and Information Technology« course trains electrical engineers who can translate scientific findings and technical ideas directly into practical applications or marketable products.

Outstanding study characteristics are a short duration of study as well as an intensive supervision of the students. Numerous exercises in the laboratory, project work and case studies provide an intensive reference to practical work.

The fifth semester is a practical study semester, here the students already work independently on a task from electrical engineering in a company.

In the main study period from the fourth semester onwards, students can choose from two study directions.

In the main study period from the fourth semester onwards, students can choose one of the two study directions:

Communication technology deals with the transmission, switching and processing of messages. The worldwide growth of telecommunications ensures that this sector will continue to play a leading role in the globalized economy and industry.

Automation technology has almost become a symbol for the modern manufacturing industry. The industrial societies of the 21st century are determined by global competition and largely automated production.

SEM.	MODULE OVERVIEW							ECTS
1	Electrical Engineering 1: Basics 5	Mathematics 1: Analysis 1 5	Mathematics 2: Linear Algebra 5	Programming & practical course 5	Digital Technology & practical course 5	Physics Mechanics 5	30	
2	Electrical Engineering 2: Electrodynamics 5	Metrology 1: Basics & practical course 5	Mathematics 3: Analysis 2 5	Computer-Aided Circuit Design 1 5	Computer Technology & practical course 5	Object-Oriented Programming & practical course 5	30	
3	Electrical Engineering 3: Time and Frequency Domains 5	Robotics & practical course 5	Metrology 2: Advanced & practical course 5	Electronics 5	Mathematics 4: Statistics and Numeric & practical course 5	Electrical Engineering Practical 5	30	
4	Computer-Aided Circuit Design 2 & practical course 5	German Language 5	Power Electronics 5	Seminar: Main Study 5	Communication Technology 5	Elective Module 5	30	
5	Internship							30
6	Digital Signal Processing & practical course 5	Seminar: Scientific Work 5	Microcontroller & practical course 5	High Frequency Engineering & practical course 5	Module 2: Study Focus 5	Communication Networks 5	30	
7	Automation & practical course 7	Control Engineering & practical course 6	Module 1: Study Focus 5	Bachelor-Thesis 12			30	

JOBS & PROSPECTIVES

Whether simple household appliances, satellite technology or autonomous systems, electrical engineers are involved in design, development and testing every-

After successfully completing your studies, you will graduate with a Bachelor of Engineering (B.Eng.), which will give you the opportunity to work in one of the numerous companies in the region or worldwide. Optionally, you have the opportunity to obtain your Master's degree.

Communication and automation technology plays a central role in the success of many industrial companies. From control technology for the infrastructure to device development in the software and hardware area, you can apply your acquired know-how in a variety of ways.



STUDIES AT RWU

The studies at the Ravensburg-Weingarten University of Applied Sciences are characterised by practical training and modern, well-equipped laboratories. Students study in small groups, individually supervised by a team of highly qualified professors and assistants. Nearby dormitories and many leisure activities in the attractive landscape of Upper Swabia, close to Lake Constance and the Alps offer excellent boundary conditions and the best conditions for fun and success in study and work.



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