

Faculty:
Engineering



Site:
Campus Karthause

Degree Title: Electrical Engineering						
Academic Title: Bachelor of Engineering (B.Eng.)			Prerequisites for Admission: <ul style="list-style-type: none"> • The general examinations required for entrance into universities or institutes of higher education (<i>Allgemeine Hochschulreife</i> or <i>Fachhochschulreife</i>), or a recognised equivalent preparatory qualification • Industrial placement (min. 13 weeks) 			
Aim of the Course: The aim of the Bachelor Degree course is to offer a practical, vocational qualification for future-oriented specialists and managers. The central theme of the course has been geared towards the recommendations voiced by the Association of German Electrical Engineers (<i>VDE</i>) and Association of German Engineers (<i>VDI</i>) and those of the association of electrical engineering and information technology faculties at universities of applied science.						
Structure of the Course/Curriculum:						
„Bachelor of Engineering“ Elektrotechnik						
1. Semester	2. Semester	3. Semester	4. Semester	5. Semester	6. Semester	7. Semester
Mathematik I (10c)	Mathematik II (5c)	Mathematik III (5c)	Werkstoffkunde der Elektrotechnik (5c)	Regelungstechnik (5c)	Automatisierungstechnik (5c)	
Grundlagen der Elektrotechnik I (5c)	Grundlagen der Elektrotechnik II (5c)	Grundlagen der Elektrotechnik III (5c)	Elektronik (5c)	Digitale Signalverarbeitung I (5c)	Antriebssysteme (5c)	Praxisphase (15c)
Technische Physik I (5c)	Technische Physik II (5c)	Technische Physik III (5c)	Regelungstechnik (5c)	Sensortechnik (5c)	Nichttechnisches Wahlpflichtmodul I (5c)	
Ingenieur-Informatik I (5c)	Ingenieur-Informatik II (5c)	Ingenieur-Informatik III (5c)	Rechnernetz/ Kommunikationssysteme (5c)	Nichttechnisches Wahlpflichtmodul III (5c)	Nichttechnisches Wahlpflichtmodul II (5c)	Bachelor-Thesis (12c)
Digitaltechnik (5c)	Grundlagen der Informationstechnik I (5c)	Messtechnik (5c)	Grundlagen der Energietechnik (5c)	Technisches Wahlpflichtmodul II (5c)	Technisches Wahlpflichtmodul IV (5c)	
	Fremdsprachen (3c)	Elektronik I (5c)	Technisches Wahlpflichtmodul I (5c)	Technisches Wahlpflichtmodul III (5c)	Studienarbeit (5c)	Kolloquium (3c)
	Studium Generale (2c)					
‘Bachelor of Engineering’ in Electrical Engineering						
Semester 1 Mathematics I (10c) Principles of Electrical Engineering I (5c) Technical Physics I (5c) Engineering Informatics I (5c) Digital Technology (5c)						
Semester 2 Mathematics II (5c) Principles of Electrical Engineering II (5c) Technical Physics II (5c) Engineering Informatics II (5c) Principles of Information Technology I (5c) Foreign Languages (3c) General Studies (2c)						
Semester 3 Mathematics III (5c) Principles of Electrical Engineering III (5c) Technical Physics III (5c) Engineering Informatics III (5c) Measuring Methods (5c) Electronics I (5c)						
Semester 4 Electrical Engineering Materials (5c) Electronics (5c) Control Engineering (5c) Computer Networks/Communication Systems (5c) Principles of Power Engineering (5c) Technical, Elective Module I (5c)						
Semester 5 Control Engineering (5c) Digital Signal Processing I (5c) Sensor Engineering (5c) Non-Technical, Elective Module III (5c) Technical, Elective Module II (5c) Technical, Elective Module III (5c)						
Semester 6 Automation Systems (5c) Actuation Systems (5c) Non-Technical, Elective Module I (5c) Non-Technical, Elective Module II (5c) Technical, Elective Module IV (5c) Assignment (5c)						
Semester 7 Practical Phase (15c) Bachelor Thesis (12c) Final Oral Examination (3c)						

Employability/Professional Activities: The Bachelor Degree in Electrical Engineering is designed to prepare students for the following occupational areas in particular: development and project engineering, installation and start-up, production and quality assurance, maintenance and service, sales and marketing, project and process management.	
Final Examination/Examination Regulations: <ul style="list-style-type: none">• Legal basis: regulations governing the examination on the B.Eng. Electrical Engineering, Information Technology and Mechatronics degrees• Module examinations, thesis and final oral examination	Additional Information <ul style="list-style-type: none">• Modular,• Accredited degree course
Admission to Postgraduate Studies Successful completion of the BA course qualifies a student for acceptance onto a Master Degree Course.	
The Faculty's ECTS-/International Student Advisor Prof. Dr. Andreas Kurz, E-Mail: kurz@fh-koblenz.de	