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| Degree Title: Information Technology | | | | | | |
| 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 given 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“ Informationstechnik | | | | | | |
| 1. Semester | 2. Semester | 3. Semester | 4. Semester | 5. Semester | 6. Semester | 7. Semester |
| Mathematik I (10c) | Mathematik II (5c) | Mathematik III (5c) | Ingenieur-Informatik III (5c) | Rechnernetze/ Kommunikationssysteme II (5c) | Embedded Systems (5c) | Praxisphase (15c) |
| Grundlagen der Elektrotechnik I (5c) | Grundlagen der Elektrotechnik II (5c) | Grundlagen der Elektrotechnik III (5c) | Elektronik II (5c) | Betriebssysteme (5c) | Nichttechnisches Wahlpflichtmodul 1 (5c) | |
| Technische Physik I (5c) | Grundlagen der Informationstechnik I (5c) | Grundlagen der Informationstechnik II (5c) | Rechnernetze/ Kommunikationssysteme I (5c) | Digitale Signalverarbeitung I (5c) | Technisches Wahlpflichtmodul I (5c) | Bachelor-Thesis (12c) |
| Ingenieur-Informatik I (5c) | Technische Physik II (5c) | Messtechnik (2c) | Softwaretechnik I (5c) | Regelungstechnik (5c) | Technisches Wahlpflichtmodul II (5c) | |
| Digitaltechnik (5c) | Ingenieur-Informatik II (5c) | Technische Physik III (5c) | Regelungstechnik (5c) | Hochfrequenztechnik (5c) | Technisches Wahlpflichtmodul III (5c) | |
| | Fremdsprachen (3c) | Ingenieur-Informatik III (5c) | Messtechnik/Sensorik (3c) | Datenbanken (2,5c) | Studienarbeit (5c) | Kolloquium (3c) |
| | Studium Generale (2c) | Elektronik I (5c) | | Antriebe (2,5c) | | |
| ‘Bachelor of Engineering’ in Information Technology | | | | | | |
| 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) Principles of Information Technology I (5c) Technical Physics II (5c) Engineering Informatics II (5c) Foreign Languages (3c) General Studies (2c) | | | | | | |
| Semester 3 Mathematics III (5c) Principles of Electrical Engineering III (5c) Principles of Information Technology II (5c) Measuring Methods (2c) Technical Physics III (5c) Engineering Informatics III (5c) Electronics I (5c) | | | | | | |
| Semester 4 Engineering Informatics III (5c) Electronics II (5c) Computer Networks/Communication Systems I (5c) Software Engineering I (5c) Control Engineering (5c) Measuring Methods/Sensor Engineering (3c) | | | | | | |
| Semester 5 Computer Networks/Communication Systems II (5c) Operating Systems (5c) Digital Signal Processing I (5c) Control Engineering (5c) High Frequency Technology (5c) Data Bases (2.5c) Drives (2.5) | | | | | | |
| Semester 6 Embedded Systems (5c) Non-Technical, Elective Module I (5c) Technical, Elective Module I (5c) Technical, Elective Module II (5c) Technical, Elective Module III (5c) Assignment (5c) | | | | | | |
| Semester 7 Practical Phase (15c) Bachelor Thesis (12c) Final Oral Examination (3c) | | | | | | |

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| Employability/Professional Activities: The Bachelor Degree in Information Technology is designed to prepare students for the following occupational areas in particular: the design of information technology systems, the development of human-machine interfaces, data base administration, systems consulting, the development of 'embedded systems', specification and requirements analyses, customer support, network administration, and the set-up of modern communication systems. | |
| 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 | |