



University of Applied Sciences

# Departments of Brandenburg University of Applied Sciences

## Department of Computer Science and Media

[The Department of Computer Science and Media](#) currently comprises 23 professors who cover a broad range of subjects in the areas of computer science, media and medical informatics. Academic and technical staff support laboratory work, conduct application-oriented research and accompany technology transfer. In addition to large PC lecture halls and a media production laboratory, there are more than 15 special laboratories.

The core of the degree courses on offer is the Bachelor of Computer Science, offering modern profiles in intelligent systems, cloud and network computing and digital media. The international Bachelor of Applied Computer Science programme with an integrated semester abroad and selected English language courses reflects the increasingly global orientation of the professional world. The Bachelor of Medical Informatics offers an interdisciplinary range of computer science and medicine, and therefore enables the degree course to be tailored to the requirements of the rapidly growing healthcare market. Graduates of all the Bachelor degree courses can undertake a direct (consecutive) course in one of the two Master degree courses in Computer Science (within the fields of applied computer science and medical informatics) and Digital Media. In addition, students can pursue doctoral degree courses offered in cooperation with universities. The Bachelor and Master of Science online degree course in Media Informatics, which has been offered by the Virtual University of Applied Sciences since 2001, also offers the opportunity to study career-integrated.

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## Department of Engineering

Technical developments and products are part of our daily lives. We owe our living comfort, mobility possibilities, work facilitation and much more to engineers. They develop machine systems; move vehicles reliably and efficiently, develop new energy sources and optimise processes. However, digitisation and rapidly increasing production capacities require the sustainable management of energy, resources and nature worldwide. The Master's courses in particular take into account both the high scientific qualification requirements and the socio-political responsibility of today's engineering profession.

### Degree courses

Over 50 scientists and 10 laboratory engineers supervise over 700 students enrolled in the study programmes of the department.

4 Bachelor degree courses (Optometry/Optical Engineering, Engineering, Mechanical Engineering, Industrial Engineering) and 3 Master degree courses (Energy Efficiency of Technical Systems,

Mechanical Engineering, Photonics) cover a wide range of modern and key future technologies. The degree course always starts with well-grounded basic training over 3 semesters. From the 4th semester onwards up to the Master's degree course, students continue their studies with a wide choice of specialisations.

The study programmes emphasis practical relevance, understanding of systems, interdisciplinary training phases and international exchange. Students do internships in modern research and development laboratories with equipment and software used in companies. In addition, external project work, practical or foreign exchanges are mandatory. Thesis projects in the industry continuously enrich the department's engineering contacts.

### **Research/development**

[The Department of Engineering's](#) core competences lie in the interdisciplinary focus of energy efficiency, especially in energy and process engineering, in the investigation of material properties and raw materials, product development and calculation of components, in (eye) optical technologies and devices, in the development of mechatronic systems, in micro and laser technology as well as in electrical and mechanical drive technology.

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## **Department of Business and Management**

With its profile, the [Department of Business and Management](#) offers courses in business with information technology and innovation-oriented components. Students learn the fundamentals as well as methodological and organisational skills in order to analyse complex problems of company practice, to design new services and processes to contribute to the company's long-term economic success. Alongside core business skills and up-to-date IT knowledge, students also acquire social skills such as facilitation management and teamwork.

The department offers a wide range of courses including undergraduate, part-time and dual study formats with corresponding consecutive Master's degree courses for the Bachelor of Business Administration and Business & Information Systems Engineering.

The Master of Technology and Innovation Management and the Master of Security Management are career-integrated part-time study programmes, and are aimed at prospective students who already possess an undergraduate university degree.

The career-integrated Bachelor of Business Administration programme is aimed primarily at professionals who are looking to obtain their first academic degree.

The bachelor programmes Business Administration and Business & Information Systems Engineering can also be studied as dual degree courses. The dual degree course format focuses on prospective students with an above-average willingness to perform and a high degree of commitment in a company in order to gain hands-on experience already during their studies.

The Department of Business and Management attaches particular importance to high quality, academic education, which stands out due to its practical orientation based on very intensive networking and diverse cooperation with companies in the region.

Despite offering a broad range of study and cooperation opportunities, the department further distinguishes itself by its application-oriented teaching and research approaches. The department's

research covers a wide range of fields. Main research areas include innovation management, company foundation as well as digitisation and security.

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