

About Us

As an accredited and state-recognised university, we see ourselves as the ideal link between practice-based academic training and companies' real needs for skilled professionals and managers. Thanks to lecturers with professional and managerial backgrounds and applied research projects the practical relevance of the course is guaranteed. Whether part-time, dual or full-time, our range of business, industrial engineering and engineering degree programmes meet all the requirements for an individual course of study and a successful start to your career. In brief, bbw Hochschule – University of Applied Science is the perfect springboard for a career in business.

What sets us apart?

Our practical focus

Our professors and lecturers hold specialised and management positions in companies alongside their academic work and can therefore draw on a wealth of experience from founding companies or their involvement in applied research projects.

Our links to the business community

We develop our degree programmes in response to the real needs of the business community in Berlin and Brandenburg, thereby creating the ideal bridge between higher education and existing professions.

Our cosmopolitan outlook

With a student body numbering around 1,000, we are now one of the largest state-recognised private universities in Berlin and Brandenburg. Our students hail from all over the world and are discovering Berlin as their new home thanks to their studies.

Based on the quality management system implemented, the bbw Hochschule – University of Applied Sciences has been certified to independently develop and run high-quality degree programmes.

Contact

We look forward to answering your questions. Contact us for more information or make an appointment.

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Discover Higher Education

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in English

Hochschule
University of
Applied Sciences



Business and Industrial Engineering

Sustainability and Smart Building Technology

Master's Programme
Master of Science, M.Sc.

Humans spend around 90 % of their time indoors. For our well-being, we need enough light and fresh air and the temperature should be comfortable. As a result, not only do residential buildings, offices and shops need enough space, but they also demand plenty of energy – these are two resources which are coming under close scrutiny when thinking about creating a sustainable future. This degree programme focuses on technology in the real estate sector which can be used to run buildings efficiently whilst also being user-friendly.

The term PropTech (Property Technology) has been coined to refer to technological developments and digital services in the real estate sector over the past ten years. Whilst the number of use cases and business models are on the constant rise, what are known as smart buildings are probably the most well-known examples of PropTech in use. They involve the use of automation to make indoors a comfortable space for humans to spend their time whilst also combating climate change by striving to reduce carbon dioxide emissions. Buildings are currently responsible for around 40 % of total emissions.

More and more buildings with sustainable, user-friendly and high-end technology are planned and built every year. Nevertheless, there is still a high number of buildings in existence which have a long lifespan and poor energy efficiency. This degree programme concentrates on action and strategies which can be implemented to improve existing infrastructures with regard to their use of resources and equip them with digital technology to create more user friendliness for all involved, whether that be owners, administrators or users.

Suitable for studying part time while working

www.bbw-hochschule.de

Overview

Course Language
- English

Admission Requirements
- An initial, state-recognised professional qualification from a university of applied sciences in the following or similar subjects:
  - Architecture
  - Civil engineering
  - Business and industrial engineering
  - Business studies and economics
  - Facility management
  - Real estate
  - Geography
  - Town and regional planning
  - Law
  - Commercial law
  - Surveying
- At least one year of work experience
- English language certificate, level B2

Start
- 1st October and 1st April

Study Mode and Duration
- Full time, 2 years or 4 semesters

Tuition Times
- Lectures are generally held in blocks on Mondays, Thursdays, Fridays and Saturdays between 8:30 am and 6:30 pm
- 30 percent of the lectures take place online
- There are around 8 weeks of university holidays per academic year

Credit Points
- 120 CP

Tuition Fee
- 4 installments of EUR 3,840.00

Registration Fee
- For non-EU applicants: EUR 250.00

Funding Options
- BAföG (Federal Education and Training Assistance Act)
- Student loan (e. g. KfW, Daka e. V.)
- Job
- Company | Employer

The Programme

We set up the degree programme in response to the high demand for specialists in the real estate sector with an understanding of the commercial matters surrounding property and with the ability to implement projects in the areas of intelligent building technology and sustainability. As the largest branch of industry in Germany, the real estate sector is also the largest producer of CO2 emissions. This programme teaches how smart technology can be put to use in properties to help protect the environment and make a contribution to environmental sustainability.

Students will graduate from the programme qualified to conduct day-to-day business in the sector and to face the challenges smart building technology presents, as well as to develop long-term strategies and visions for establishing a sustainable approach towards properties in their different asset classes.

They will have developed the ability to plan and optimise the processes involved in smart building management using technology such as the Internet of Things, energy management tools and other platforms.

Benefits of Studying with Us

You focus on your studies. We take care of the rest!

- A brand new campus with state-of-the-art facilities
- Small groups of students and individual support
- Professors with experience in the relevant industry
- Fixed semester schedules
- A good balance of work, study and leisure time
- Accredited and state-recognised university
- Support in getting your career off to a good start



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One of a Kind

This degree programme is one of its kind in the field of real estate management and technology. Based on Berlin, the hub of Europe's start-up eco-system, the university provides students with access to new innovations and even gives them the opportunity to set up their very own PropTech start-up. The real estate sector in Germany accounts for more than 10% of the gross domestic product (GDP). Students can make the most of the close contact they'll have with our leading industry partners and experienced teaching staff, as well as the array of opportunities for their future career.

Career Prospects

Graduates from this programme will obtain a set of skills specific to this profession and they will be able to fill the new job positions available in the real estate and property management sector, with an array of prospects extending to include a variety of areas in property management. The Master's programme will also give graduates the option of setting up their own company, not to mention access to a multitude of potential employers, such as private, cooperative and municipal housing associations, asset management companies, property management companies, project development enterprises, real estate service providers, consultancy and valuation companies, organisations and consortia. PropTech start-ups, in particular, offer excellent career prospects after graduation.

Occupations | Lines of Work
- Project Manager in Digitalisation
- Innovation Manager
- Chief Digital Officer
- Technological Infrastructure Manager

Study Content

1st Semester
- Project Management – Basics
- Presentation and Negotiation Skills
- PropTech and Smart Building Technologies I – Introduction
- IT Architecture, BIM, Smart Building Planning and Design
- Design Thinking, Agile Methods and Digital Business Models in Real Estate
- Smart City Applications, Smart Mobility and Big Data

2nd Semester
- Project Management in the Construction and Real Estate Industry I – Project Management
- PropTech Best Practices
- Sustainability, ESG and Regulatory Environment
- PropTech and Smart Building Technologies II – Technology Assessment
- Fundamentals of Construction Technology
- Project Development in Existing Buildings / Facility Management

3rd Semester
- Real Estate Economics – Economic and Business Fundamentals
- Project Management in the Construction and Real Estate Industry II – Project Control
- Energy Creation and Management Technologies
- Real Estate Asset Management
- Sustainability Impact Monitoring and Offsetting
- Research Methods in Science

4th Semester
- Practical Application Project Work

Final Stage
- Master´s Thesis and Final Oral Examination