Business Engineering in Environmental Science

Degree	**Bachelor of Engineering (B.Eng.)**
Type of study	**Full-time study**
Standard period of study	**7 semesters**
Commencement of studies	**Winter semester (1 Oct)**
Credits (ECTS)	**210**
Language of instruction	**German**
Department / Central Institute	**Department of Business and Economics**

Degree programme

Sustainability encompasses actions such as stopping climate change, developing and implementing innovative power-generation concepts, reducing pollution, providing clean drinking water and conserving natural resources. In short, it means addressing a range of social, economic and technological challenges to cater for the needs of the current population without endangering the chances of future generations. Moreover, its realization needs qualified experts to design and implement the processes involved.

The interdisciplinary degree programme incorporates this holistic approach in its syllabus. The Berliner Hochschule für Technik (BHT) and the HWR Berlin have joined together to provide a Bachelor's degree programme which reflects the expertise of both institutions. Focussing on Environmental and Sustainable Management and Environmental and Process Engineering, we have developed a high-quality programme which combines the principles of Engineering and Economic Sciences with a wider field of view (e. g. Environmental Engineering and Renewable energies, Sustainable Operations and Company Environmental Management) and a range of key skills. The programme includes a practical phase and permits students to spend a semester at one of our international partner universities. After all, the Environment and Sustainability are global topics.

Professional field

Graduates proficient in a combination of Economics and Engineering are highly sought-after on the employment market, both in small start-ups, SMEs, management consultancies and NGOs. Graduates of this course often progress to positions of responsibility in the energy sector, strategic and practical product and facility design, the resource, waste and production Management sector, environmental management and supply chain management.

Degree structure

The programme is structured into a four-semester foundation course and a three-semester specialization phase. After a combined Business Administration and technical-based training, students then study a number of central issues in greater detail whilst choosing to specialize in Economics or technical issues.

The foundation course is divided equally between the HWR Berlin and the BHT.

Guidance for prospective students

Student Counselling Services

+49 30 30877-1919

- Contact form
- On-site consultation

Student advisory service

Department of Business and Economics
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- Detailed Profile

Course contents

Foundation (1st –4th semesters)

Management Basics – HWR Berlin

Financial and Managerial Accounting, Economy and Society, Economics, Introduction to Environmental Economics and Sustainable Development, Principles of Corporate Finance, Statistics, Business Law, Marketing, Human Resources and Organisation, Business English, Key Qualification Personal Competence

Technical Foundations– BHT

Mathematics I&II, Informatics for Engineers, Physics, Thermodynamics, Fluid Mechanics and Heat Transfer, Environmental Chemistry, Engineering Mechanics, Transfer of Heat, Momentum and Mass, Automation and Systems Technology, Hydrogen, Power to X, Carbon Usage, Unit Operations, Technical English, General Studies

Specialist stage (5th –7th semesters)

HWR Berlin

Core Modules: Environmental and Technology Law, Sustainability in Value Chains, Sustainable Operations Management I, Business Simulation and Team Development with Supervision, Financial Strategy and Financial Valuation of Corporates, Project Management & Case Studies
Elective Management: Sustainable Corporate Management, Sustainable Operations Management II, Analysis of Corporate Sustainability

BHT

Core Modules: Plant Engineering, Environmental Process Engineering, Energy Conversion, Renewable Energy
Elective Engineering: Environmental Technology, Sustainable Process Engineering and Integrated Environmental Technology, Facility Design and Simulation

Practical phase (6th –7th semesters)

Internship semester in a company; internship semester at the HWR Berlin or the BHT

Admission requirements

- University entrance qualification or an entrance qualification for a University of Applied Sciences

Application procedure and deadlines

The application is to be submitted to the Beuth University of Applied Sciences

Aplication period with a non-German university entrance qualification:
15 April – 15 June

Accreditation

Programmakkreditiert durch den Akkreditierungsrat

Fees and grants

Tuition fees	**None**
Semesterfee	**ca. € 300 per semester (incl. local transport semester ticket)**