# **Business Engineering - Energy and Natural Resources**

Degree	Master of Science (M.Sc.)
Type of study	Full-time study
Standard period of study	3 Semesters
Commencement of studies	Winter semester (1 Oct)
Credits (ECTS)	90
Language of instruction	German
Department / Central Institute	Department of Business and Economics

#### **Degree programme**

Climate change, renewable energies, sustainable production: just three major challenges currently facing society. This interdisciplinary Master's degree programme Business Engineering – Energy and Natural Resources is aimed at students seeking to work towards the solution of these pressing problems. This requires combining a theoretical and practical understanding of Economics and Engineering issues into a single degree course in order to address ques- tions pertaining to development and production, conception, consulting and strategy development – in company, public authority, commercial association and freelance contexts.

The degree programme is run in cooperation with the Berliner Hochschule für Technik and delivers a high-level Engineering and Economics-based qualification with a specialist focus on Energy and Environmental Resources. Guided by the central principle of Sustainable Development, the programme places a particular emphasis on both specialist and interdisciplinary skills. Graduates will learn to combine the approaches of Economics and Engineering to work in the most resource-conserving and environmentally-sound fashion possible, thereby ensuring a socially-responsible future. The two universities seek to combine their core areas of expertise to provide their students with the best-possible training, thereby preparing them for the diverse range of challenges they will face.

#### **Professional field**

The Master's degree programme follows on from the Bachelor's degree programme Business Engineering in Environmental Science taught at the HWR Berlin and the Berliner Hochschule für Technik. Holders of a different first degree can also apply for a place on this course. Applicants without the requisite qualification can be admitted to the programme under the condition that they perform further tasks. Graduates of this internationally-recognized degree programme are qualified for the higher levels of German public administration. The degree programme prepares its students for a range of roles and management tasks e.g. in state and non-governmental organizations and internationally-orientated companies.

#### Information for prospective students

**Student Counselling Services** 

+49 30 30877-1919

- Contact form
- On-site consultation
- 13.06.2024 Online info event

23.10.2024 Online info event

#### Student advisory service

Department of Business and Economics **Kerstin Muhlack-Büchel**Student Office

+49 30 30877-1373

#### **Academic Director**

Department of Business and Economics **Prof. Dr. Eberhard Schmid**Professor of Sustainable Supply Chain Management

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Detailed Profile

### **Degree structure**

The first and second semesters (seminars, practice-related and laboratory-based teaching and project work) seeks to impart a foundation level of knowledge and skills. The project module of the second semester can be chosen from an Economics or an Engineering context. The third semester is intended for the Master's thesis and the final oral examination.

#### Course contents

#### First semester

- Module 1: Selected Engineering Systems and Methods Specialization (with practical seminar Berliner Hochschule für Technik)
- Module 2: Sustainable Company Economics: Accounting, Finance, Controlling and Value-Oriented Management (HWR Berlin)
- Module 3: Applied Energy and Environmental Resources Management (HWR Berlin)
- Module 4: Energy and Environmental Resource Management: Economic and Legal Instruments (HWR Berlin)
- Module 5 (elective)
  - a) Energy and Resource Efficience
  - b) Management and Simulation of Energy Systems and Production Plant (Berliner Hochschule für Technik)

#### Second semester

- Module 1: Integrated Environmental Engineering and Environmental Resources (Berliner Hochschule für Technik)
- Module 2: Accounting Equations for Technical Systems (Berliner Hochschule für Technik)
- Module 3: Optimization for the Design and Operation of Energy Systems (Berliner Hochschule für Technik)
- Module 4: Innovation Management (HWR Berlin)
- Module 5 (elective): Project research:

Berliner Hochschule für Technik: Engineering focus

HWR Berlin: Business and Economics focus

#### Third semester

- Master's thesis
- Final oral examination

#### Modules overview

### Admission requirements

- University degree (min. 180 ECTS) providing introductory training in the principles of Economics and Engineering
- At least 200 ECTS credit points (applicants with 180 ECTS credits will be required to obtain additional 30 ECTS credits

by completing additional modules concerning the fields that are required).

# Application procedure and deadlines

The application is to be submitted to the **Berliner Hochschule für Technik** 

Application period for holders of a German university degree 15.04.-15.06.

Application period for holders of a non-German university degree 15.04.-30.05.

## Accreditation

Programmakkreditiert durch den Akkreditierungsrat

# **Fees and grants**

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