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 Beuth University of Applied Sciences 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 Beuth University of Applied Sciences. 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.

Degree structure

The first and second semesters (seminars, practice-related and laboratory-based

Information for prospective students

Student Counselling Service

+49 30 30877-1254

Telephone consultation hours
Tue, Thu 14.00–15.00

- Contact form

Student advisory service

Department of Business and Economics
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Student Office

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Academic Director

Department of Business and Economics
Prof. Dr. Stefan Klinski
Professor of Commercial Law, particularly Environmental Law

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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 – Beuth University of Applied Sciences)
- 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 (Beuth University of Applied Sciences)

Second semester

- Module 1: Integrated Environmental Engineering and Environmental Resources (Beuth University of Applied Sciences)
- Module 2: Accounting Equations for Technical Systems (Beuth University of Applied Sciences)
- Module 3: Optimization for the Design and Operation of Energy Systems (Beuth University of Applied Sciences)
- Module 4: Innovation Management (HWR Berlin)
- Module 5 (elective): Project research:
  Beuth University of Applied Sciences: 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 **Beuth University of Applied Sciences, Berlin**

Applicaton 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)**