



Deutscher Akademischer Austauschdienst
German Academic Exchange Service



Table of Contents

Master's degree	2
Process, Energy, and Environmental Systems Engineering (PEESE) • Technische Universität Berlin • Berlin	2

Master's degree



Process, Energy, and Environmental Systems Engineering (PEESE)

Technische Universität Berlin • Berlin

Overview

Degree	Master of Science
Teaching language	<ul style="list-style-type: none">English
Languages	All courses are held in English. Compulsory elective modules offered in German are optional. Participants can choose to write their Master's theses in either language.
Full-time / part-time	<ul style="list-style-type: none">full-time
Mode of study	Fully on-site with voluntary online elements
Programme duration	4 semesters
Beginning	Winter semester
Additional information on beginning, duration and mode of study	https://www.tu.berlin/en/international/students-1/international-students/exchange-studies-at-tu-berlin/exchange-application/dates-and-deadlines
Application deadline	15 May for the following winter semester
Tuition fees per semester in EUR	None
Combined Master's degree / PhD programme	No
Joint degree / double degree programme	No
Description/content	<p>The aim of the PEESE international Master's programme is to train interdisciplinary and flexible graduates with both scientific and technical as well as economic expertise to contend with the increasing demand in business and society. Through the Master's programme, students will acquire necessary knowledge and skills, becoming familiar with the general and subject-specific methods for addressing and solving challenges in sustainable process and systems engineering. They will be enabled to transition to professional practice or will be prepared for further academic training (at the doctorate level). They will be prepared for the following career paths:</p> <ul style="list-style-type: none">In process engineering in the fields of process development, process simulation, process validation, operation, re-engineering of plants, optimisation of processes and sequences,

or control engineering

- In energy technology / energy engineering careers in the design, analysis and optimisation of plants for energy conversion, use of alternative energies, control of regional and national energy supply systems, or safety engineering
- In environmental technology and management/environmental engineering and management – in industrial production – disposal technology, air pollution control, preventive and end-of-pipe environmental protection concepts, production integrated environmental protection as well as in government agencies and industrial companies in plant construction
- In bioprocess engineering – in the fields of bioprocess development, bioprocess simulation, process validation, operation of plants in biotechnological and biopharmaceutical production, optimisation of bioprocesses and sequences, or process analytical technologies
- In research and development – natural scientific, engineering, and interdisciplinary basic research and development, strategies, methods and processes in energy, environmental, process and bioprocess engineering

Course Details

Course organisation

Students can structure their studies individually. They are, however, obliged to comply with the provisions laid out in the Study and Examination Regulations. The Study and Examination Regulations can be found in the Downloads & Links section on this website: <https://www.tu.berlin/fakultaet3/studium-lehre/studienangebot/msc-peese>.

A total of 12 ECTS must be earned in compulsory modules.

Compulsory elective modules are worth 60 ECTS and are structured as follows:

- Process Systems Engineering (12 to 24 ECTS)
- Energy Technologies (12 to 24 ECTS)
- Environmental Engineering and Sustainability (12 to 24 ECTS)
- Management, Transdisciplinary and Intercultural Skills (12 ECTS)

A total of 18 ECTS must be earned in elective modules.

Students have the option of completing an internship and receiving 6 ECTS.

A Diploma supplement will be issued	Yes
International elements	<ul style="list-style-type: none">• International guest lecturers• Training in intercultural skills
Course-specific, integrated German language courses	No
Course-specific, integrated English language courses	No

Online learning

Pace of course

Mixed (e.g. fixed exam dates and duration, study content can be studied at any time)

Phase(s) of attendance in Germany (applies to the entire programme) Yes, voluntary

Types of online learning elements

- Online sessions
- Online study material provided by institution
- Online tutorials
- Video learning (Pre-recorded videos, Vlogs, Video-Podcasts)

Costs / Funding

Tuition fees per semester in EUR None

Semester contribution <https://www.tu.berlin/en/studying/organizing-your-studies/topics-a-z/semester-fees>

Funding opportunities within the university No

Requirements / Registration

Academic admission requirements In addition to the general admission requirements set out in Sections 10 to 13 BerlHG, applicants must have Bachelor's or equivalent university degree in chemical engineering, energy engineering, mechanical engineering, environmental engineering, material science/engineering, or a related degree programme. The relevant examination committee shall decide on whether the technical and content-related requirements have been fulfilled.

Language requirements

- Applicants are required to provide proof of English skills at level B2 of the Common European Framework of Reference for Languages. The relevant examination committee decides on the equivalence as well as on the recognition of the proof of English skills.
- Applicants with no or only very minimal knowledge of German are strongly advised to acquire German language skills at B2 level by the end of the second semester.

Application deadline 15 May for the following winter semester

Submit application to <https://www.uni-assist.de/>

Services

Support for international students and doctoral candidates

- Welcome event

General services and support <https://www.tu.berlin/en/international/students-1/international-students>

Contact

Technische Universität Berlin

Faculty III

PO box: KT1
Marchstr. 18
10587 Berlin

✉ studienberatung.ept@fakultaet3.tu-berlin.de

🌐 Course website: <https://www.tu.berlin/fakultaet3/studium-lehre/studienangebot/msc-peese>

Last update 02.07.2024 11:21:00

International Programmes in Germany - Database

www.daad.de/international-programmes
www.daad.de/sommerkurse

Editor

DAAD - Deutscher Akademischer Austauschdienst e.V.
German Academic Exchange Service
Section K23 – Information on Studying in Germany
Kennedyallee 50
D-53175 Bonn
www.daad.de

GATE-Germany

Consortium for International Higher Education Marketing
www.gate-germany.de

Disclaimer

The data used for this database was collected and analysed in good faith and with due diligence. The DAAD and the Content5 AG accept no liability for the correctness of the data contained in the "International Programmes in Germany" and "Language and Short Courses in Germany".

The publication is funded by the German Federal Ministry of Education and Research and by contributions of the participating German institutions of higher education.



Federal Ministry
of Education
and Research