



Deutscher Akademischer Austauschdienst
German Academic Exchange Service



Table of Contents

Bachelor's degree	2
BEng Energy Systems Engineering • Deggendorf Institute of Technology • Pfarrkirchen.....	2

Bachelor's degree



BEng Energy Systems Engineering

Deggendorf Institute of Technology • Pfarrkirchen



Overview

Degree	Bachelor of Engineering (BEng)
Teaching language	<ul style="list-style-type: none">English
Languages	Course language: English
Programme duration	7 semesters
Beginning	Winter semester
Application deadline	15 April to 15 July for October entries (winter semester)
Tuition fees per semester in EUR	None
Joint degree / double degree programme	No
Description/content	<p>Shape the power industry of the future! As a student of Energy Systems Engineering, you will be trained as an engineer with the skills to convert power supplies from fossil fuels to renewable sources of energy, involved in a range of areas such as power generation, conversion, transport, usage and storage. You will learn through practical and theoretical instruction to explore the technical and economic aspects of current energy systems in order to gain in-depth cross-sectional expertise in the supply, integration and storage of future energy systems. Your future could be at the forefront of this exciting transitional period. You could shape the development of emerging power supply concepts, be involved in the decentralisation of energy systems, or work on the continued development of smart power grids.</p> <p>As an engineer with an excellent global qualification, you could create a sustainable and more environmentally friendly power industry for the future.</p>
Current information	<p>Rankings</p> <p>WURI (World's Universities with Real Impact) Ranking 2022:</p> <ul style="list-style-type: none">No. 8 worldwide in the category "Crisis Management"No. 2 worldwide in the category "Entrepreneurial Spirit"

Course Details

Course organisation

Semester one

Analytical Principles of Engineering
Informatics for Engineering I
Fundamentals of Electrical Engineering
Physics
Chemistry
Foreign Language I

Semester two

Mathematics for Engineering
Informatics for Engineering II
Electrical and Power Engineering
Lab Work in Natural Sciences
Materials and Design
Intercultural Competences
Compulsory elective subject of a general academic nature (AWP) I
Foreign Language II

Semester three

Applied Mathematics
Energy Technology
Measurement and Control Engineering
Fundamentals of Energy Economy
Project Work I including Scientific Writing
Foreign Language III

Semester four

Renewable Energies
Sustainability
Plant Engineering
Compulsory Elective I*
Project Work II including Simulation and Design
Compulsory elective subject of a general academic nature (AWP) II
Foreign Language IV

Semester five

Internship including PLV seminars

Semester six

Power Grid Technologies
Energy Storage
Smart Systems and Technologies
Compulsory Elective II*
Project Work III including Lab Work in Energy Systems

Semester seven

Grid Management
Site Planning and GIS
Compulsory Elective III*
Bachelor's thesis incl. Bachelor's Seminar

*Compulsory Elective I-III: Students must acquire 15 ECTS credits from the "Pool of Electives I-III"

Pool of Electives I-III

- Advanced Fluid and Energy Technology
- Computer Simulation in Energy and Resource Economics
- Energy and Resource Efficiency
- Energy Economics Policy
- Entrepreneurship
- Finance and Accounting
- Health Safety Environment
- International Energy Regulations
- Modelling Theory
- MRO Strategies and Process Reliability
- Operational Processes
- Principles of Energy Systems Management
- Process Engineering
- Process Optimisation
- Safety and Security in Energy Systems
- Strategic Planning and Project Management
- Technology and Intellectual Property Rights Management

International elements	<ul style="list-style-type: none"> • Integrated study abroad unit(s)
Integrated study abroad unit(s)	Students have the opportunity to spend one or more semesters abroad at a partner university (e.g. Erasmus exchange).
Integrated internships	An internship of 18 weeks is to be completed in the fifth semester.
Course-specific, integrated German language courses	Yes
Course-specific, integrated English language courses	Yes

Costs / Funding

Tuition fees per semester in EUR	None
Semester contribution	72 EUR student service fee per semester Information for international applicants and students
Costs of living	Approx. 700 EUR per month Click the following link to find a financial overview for students who are living and studying here: monthly expenses .
Funding opportunities within the university	Yes
Description of the above-mentioned funding opportunities within the university	If you are an enrolled DIT student, there are several opportunities to partially finance your studies through a scholarship. Detailed information about funding opportunities is published here: https://th-deg.de/en/study-

Requirements / Registration

Academic admission requirements

- General German university entrance qualification or please check your eligibility [at the DAAD](#) if you have an international qualification
- Applicants have to take an [Academic Readiness Assessment test](#) and provide the resulting certificate in addition to the other documents required for application.
- [Read step by step how to apply](#)

Language requirements

English level B2 (see [language requirements](#))

Application deadline

15 April to 15 July for October entries (winter semester)

Submit application to

Please apply directly to Deggendorf Institute of Technology via our application portal. All required documents must be uploaded on the application portal. It is not necessary to send in hard copies by postal mail.

Please find more details regarding our application process here: <https://www.th-deg.de/en/apply#international>

Services

Possibility of finding part-time employment

There are various job opportunities in and around Pfarrkirchen.

Accommodation

A supportive environment is vital for students to feel comfortable and do well in their studies. Therefore, we go to great efforts to support our students on personal, social and academic levels.

The International Office assists international students with all matters regarding accommodation.

In Pfarrkirchen, many flats are available in close proximity to the campus. View our flat rental website for private accommodation and get directly into contact with landlords: <https://pmit-ext.th-deg.de/wb/search>.

For further information, please contact: accommodation-dit@th-deg.de.

Career advisory service

Career service workshops and seminars are held throughout the year to help students with their job applications and interview techniques.

We provide the following:

- CV checks
- Workshops and seminars for job preparation
- University job fair

Furthermore, we offer the [Job Rock-It programme](#), especially designed for international degree-seeking students. In this programme, a clever combination of seminars, workshops and lectures provides a basic understanding of the German economy and thus enables easy access to the German labour market. This programme can help students with their final theses, and it can lead to

internships or even permanent positions after graduation.

Support for international students and doctoral candidates

- Welcome event
- Buddy programme
- Tutors
- Accompanying programme
- Cultural and linguistic preparation
- Visa matters
- Pick-up service



©DIT Marketing Department

Alexander Paredes-Choque Energy Systems Engineering

I am glad about my decision to study at DIT because the professors' knowledge showed in every course. These courses were enjoyable yet demanding. I also had the opportunity to get to know both a few students from other programmes and classmates, who are social and supportive people. The International Office was very supportive and I received a lot of advice. ECRI offers a really comfortable environment to learn and socialise as a student.

Our Partners



Faculties and Fields of Study

Are you interested in environmentalism, psychology, physiotherapy or robots? We offer all this and more at the Deggendorf Institute of Technology (DIT). Watch our video to learn more about our faculties and fields of study at DIT.

» more:
<https://www.youtube.com/watch?v=qCZobPOsD8A>

— Deggendorf Institute of Technology —



Deggendorf Institute of Technology / European Campus

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We are a multi-award-winning university of applied sciences founded in 1994 and located in stunning Bavaria. Ranked as one of the best universities of applied sciences in Germany, we strive for academic excellence and are committed to producing global graduates with international degrees at the Bachelor's and Master's level. The total student population of more than 8,500 includes 41% international students from all over the globe. The language of instruction is either English or German, depending on the degree programme. Study groups rarely include more than 50 students to ensure not only a personal atmosphere but also individual support for students to excel. All full-time degree programmes are free from tuition fees.

Explore our [fields of study!](#)

Let us inspire you:

- [See the advantages of studying at DIT.](#)
- [Read through the International Prospectus.](#)

Intensive support:

A supportive environment is vital for students to feel comfortable and do well in their studies. We go to great efforts to support our students on personal, social and academic levels. International students who wish to experience the Bavarian lifestyle in a family can join the “Host Family Programme”. “International Tutors” provide social support for international students, while “Study Buddies” help students to understand challenging lecture content. The International Office supports with accommodation, visas, health insurance, scholarships, etc. in addition to organising an orientation week and intercultural training for all incoming internationals.

- [Find out more about student support.](#)

International experience:

[Our 200 partner universities worldwide](#) provide enrolled students with opportunities to gain experience and earn credits towards their degrees through foreign exchange semesters, or in some cases, through double-degree studies abroad.

Practical experience:

All undergraduate studies include a compulsory internship, giving students the opportunity to practice their hands-on skills. Postgraduate students have the opportunity to work on practical research and development projects on our own [technology campuses](#). We cooperate with more than 500 companies, including global players such as BMW, MAN, Continental and Siemens, where students can gain invaluable work experience. The university's [career service](#) organises a range of practical workshops and seminars to prepare students for the job market, meaning our graduates are particularly successful in the job market; 87% enter into permanent employment directly after graduation.

Student lifestyle:

We consider a [good lifestyle](#) to be an important factor for the well-being of our students. They are supported with many facilities, such as a range of student clubs, an extensive sports programme, a big band, a campus cinema, an international week including an international food fair, and social activities or day trips organised by the Erasmus Student Network. Our annual [campus open day and summer open-air music festival](#) are firm favourites among our staff and student community.

University location

Our three teaching campuses are located in Bavaria in Southern Germany, close to the city of Munich, the Austrian border and the Alps. Our main flagship campus is located in charming [Deggendorf](#) and is the base for most students. The [European Campus Rottal-Inn](#) (ECRI) is a dynamic and multicultural study environment where all classes are exclusively in English. The Cham campus is a cosy international hub for AI and mechatronic students.

[View the campuses](#)

Deggendorf Campus:

The [Deggendorf campus](#) is our largest campus, and it has recently undergone a vast extension to accommodate the expanding university community. It has a modern, central courtyard with a hovering deck over water where staff and students relax while having lunch, socialising, revising or just lounging. All lecture rooms, science labs, facilities and service centres are based on and around campus, creating an excellent studying environment.

The beautiful town of Deggendorf has a population of 40,000 and is located on the banks of the Danube river at the foot of the Bavarian Forest. Munich International Airport is one hour's drive away and can easily be accessed by public transport. Our students enjoy vibrant social lives, as Deggendorf has plenty to offer: restaurants, cafés and pubs, plus many cultural festivals and events. It has an excellent network of bike trails, leisure cruise ships on the river and a surrounding hilly landscape that provides a stunning natural backdrop to enjoy countless recreational activities.

Newly built, self-contained student apartment blocks are within close walking or biking proximity to campus, the town centre and all local amenities.

European Campus Rottal-Inn:

At the [European Rottal-Inn campus](#), all Bachelor's and Master's degree programmes are conducted exclusively in English, creating a dynamic study environment with a diverse and international student community.

The campus is nestled in the town of Pfarrkirchen among rolling, picturesque hills between the Danube and Inn rivers, close to the Austrian border. Pfarrkirchen has become culturally renowned in the area due to its exceptional art exhibitions, museum nights, festivals and events throughout the year. In summer, the old town festival tempts thousands of visitors with its multicultural culinary and musical events. All year round, students enjoy the relaxed Bavarian atmosphere in local cafés, restaurants and markets in the traditional town square. The surrounding beautiful Rott Valley has a range of appealing leisure activities, being well-known for its spas, golf courses, equestrian sports and extensive bike network.

Cham campus:

The Cham campus is our newest and most compact campus, with almost 350 students, 75% being international students. Its Master's programmes are taught completely in English, and students benefit from intensive personal supervision in small study groups. The campus has a close relationship with regional and national companies in the field of mechatronics, so students learn in both an applied and scientific way.

Only a ten-minute walk from the town centre of Cham, the campus offers a unique atmosphere. Situated directly on the Regen River, students complete their studies in a relaxed and scenic country environment.

There are plenty of leisure facilities within walking distance of the campus: a leisure park with various sports facilities, a swimming pool with access to the river, a cinema, a climbing hall, shops and restaurants. It's a great place to live and study!

Contact

Deggendorf Institute of Technology
Faculty European Campus Rottal-Inn

Max-Breiherr-Straße 32
84347 Pfarrkirchen

✉ welcome@th-deg.de

🌐 Course website: <https://th-deg.de/ese-b-en>

📘 <https://www.facebook.com/HochschuleDeggendorf>

🐦 https://twitter.com/th_deggendorf

🌐 <https://www.linkedin.com/school/technische-hochschule-deggendorf/>

📺 <https://www.youtube.com/user/THDeggendorf>

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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".

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