

## OVERVIEW

### Degree

- Bachelor of Engineering (B.Eng.)

### Duration

- 7 semesters (3.5 years)

### Semester start

- Wintersemester, 01 October

### Admission requirements

- General university entrance qualification
- English level B2 is required
- Students without proof of German level B2, are recommended to complete German language courses until the end of the fourth semester

### Further qualifications

- Master Healthy and Sustainable Buildings
- Master Electrical Engineering and Information Technology

### Course language

- Englisch

### Study Location

- European Campus Rottal-Inn, Pfarrkirchen

## APPLICATION

### Application period

 [th-deg.de/deadlines-b](https://www.th-deg.de/deadlines-b)

### Online application

- In the Primuss portal at [www.th-deg.de/en/apply](https://www.th-deg.de/en/apply)

### Deadline for submitting documents

- Proof of university entrance qualification before 27 July

### Notice of acceptance or denial

- in the Primuss portal until mid August

### Enrolment

- You will find information on this in the admission notice

### Late placement for open places

- Via waiting list

### Prep courses

- In September [www.th-deg.de/prep-courses](https://www.th-deg.de/prep-courses) (no obligation)

## STUDY LOCATION

### European Campus Rottal-Inn


Max-Breiherr-Strasse 32  
84347 Pfarrkirchen, Germany  
[www.th-deg.de/ecri](https://www.th-deg.de/ecri)



## CONTACT


Are you interested in this Energy Systems Engineering bachelor degree and would like to find out more?

### Enquiries about the course

 [www.th-deg.de/ese-b-en](https://www.th-deg.de/ese-b-en)

### General enquiries about studying at DIT

 [welcome@th-deg.de](mailto:welcome@th-deg.de)

 [th-deg.de/en/study-with-us/info-for-internationals](https://th-deg.de/en/study-with-us/info-for-internationals)



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TECHNISCHE HOCHSCHULE DEGGENDORF **THD**

Bachelor  
**ENERGY SYSTEMS  
ENGINEERING**

pioneering & vibrant

## DEGREE DESCRIPTION

As a student of Energy Systems Engineering, you will learn through practical and theoretical instruction to explore the technical and economic aspects of current energy systems, to gain in-depth cross-sectional expertise in the supply, integration and storage of future energy systems.

The transformation of energy systems and their supply technologies from fossil fuels to renewable energy sources is an exciting area, regarded as a major global development challenge that will remain dominant over the lifespan of your future career.

You will be taught completely in English at the European Campus Rottal-Inn in Pfarrkirchen. This language training, coupled with intercultural aspects of the course, will prepare and qualify you for success in the national and international job market.



## CAREER PERSPECTIVES

**Expect to develop your career as a graduate in the following fields:**

- Development of energy systems and smart grids
- Smart buildings: design and development of intelligent energy management systems
- Deploying, commissioning, service and maintenance
- Monitoring and assessment of energy systems
- Management of energy networks (electricity and gas)
- Project planning

## COURSE CONTENT

1. Sem.	Analytical Principles of Engineering, Informatics I, Fundamentals of Electrical Engineering, Physics, Chemistry, Foreign Language I
2. Sem.	Mathematics for Engineering, Informatics 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
3. Sem.	Advanced Mathematics, Energy Technology, Measurement and Control Engineering, Fundamentals of Energy Economy, Project Work I including Scientific Writing, Foreign Language III
4. Sem.	Renewable Energies, Sustainability, Plant Engineering, Elective I, Project Work II including Simulation and Design, Compulsory elective subject of a general academic nature (AWP) II, Foreign Language IV
5. Sem.	Internship including PLV seminars
6. Sem.	Power Grid Technologies, Energy Storage, Smart Systems and Technologies, Elective II, Project Work III including Lab Work in Energy Systems
7. Sem.	Grid Management, Site Planning and GIS, Elective III <b>Bachelor Thesis incl. Bachelor Seminar</b>

### Electives:

- Advanced Fluid and Energy Technology
- Computer Simulation in Energy and Resource Economics
- Energy and Ressource 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 Optimization
- Safety and Security in Energy Systems
- Strategic Planning and Project Management
- Technology and Intellectual Property Rights Management

## PROGRAMME FRAMEWORK

