

Common Modules

Compulsory Elective Modules: 18 ECTS credit points from the list are required

- [11196](#) Introduction in Electrical Power
- [11494](#) Control Engineering 1
- [11747](#) Control Engineering 2
- [14414](#) Data Analytics and Process Modelling
- [14723](#) Management Tools

Electrical Power Engineering (EPE)

Power Systems

**Compulsory Elective Modules:
18 ECTS credit points from the list are required**

- [11191](#) EMC in Electrical Power Installations
- [11192](#) Medium- and Low-Voltage Technology
- [11199](#) Auxiliary Power Supply of the Power Plant
- [11473](#) Switching Technologies
- [11493](#) Calculation of Grids with Renewable Sources
- [11750](#) Power System Operation
- [13294](#) Control Technology for Processes and Networks

Power Electronics and Drive Systems

**Compulsory Elective Modules:
18 ECTS credit points from the list are required**

- [11221](#) Fundamentals in Power Electronics
- [11496](#) Research Seminar in Power Electronics
- [11696](#) Generators and Large Drives
- [13951](#) Project Laboratory Control and Network Control Technology
- [13952](#) Lab Control Engineering
- [14514](#) Lecture Series Hybrid-Electric Propulsion
- [14905](#) Control of Electrified Aero Engines
- [35436](#) Power Electronic Applications in High Voltage Grids
- [35437](#) Power Electronic Applications in Drive Systems

Power Generation from Fossil and Renewable Fuels (PGF)

Power Generation from Fossil Fuels and Thermodynamics

**Compulsory Elective Modules:
18 ECTS credit points from the list are required**

- [13169](#) Gas Cleaning
- [14145](#) Electrochemical and Chemical Energy Storage and Conversion
- [35449](#) Power Plant Technology 1
- [35450](#) Power Plant Technology 2
- [44108](#) Thermal Process Engineering and Equilibrium Thermodynamics
- [44407](#) Technical Combustion
- [44430](#) Fundamentals in Thermal Process Engineering

Power Generation from Renewables and Energy Storages

**Compulsory Elective Modules:
18 ECTS credit points from the list are required**

- [13795](#) Market Integration of Renewable Energies and Sector Coupling
- [13926](#) Hydrogen and Fuel Cells
- [13964](#) Geothermal Energy
- [13987](#) Electrical Power Generation and Integration of Wind Energy
- [13988](#) Electrical Power Generation and Integration of Solar Energy
- [13989](#) MicroGrid Application and Dimensioning
- [13990](#) Energy Storage Technologies and Grid Integration
- [14249](#) Control of Power-to-X, Storage and X-to-Power Systems
- [14290](#) Power Generation Laboratory and Simulation Project
- [14902](#) Geological 3D-Modelling

Engineering – Compulsory Elective Modules

18 ECTS credit points are required
an updated list will be provided for each semester

General Studies (»FÜS«)

6 ECTS credit points from the General Studies list are required

Industrial Internship

[11492](#) (12 ECTS credit points)

Master Thesis

[11491](#) (30 ECTS credit points)

International Master's Programme Power Engineering

Current »Engineering – Compulsory Elective Modules«¹

**As »Engineering – Compulsory Elective Modules« you may use:
(see the respective box of the same colour in the general handout for Power Engineering)**

1. all modules from »Common Modules« which were not used there,
2. all modules from your study discipline (EPE or PGF) which were not used for this study discipline,
3. all modules from the other study discipline,
4. all modules from the following list (not all of them are always offered):
 - [11857](#) Energy Systems Modelling
 - [12233](#) Experiments in Aerodynamics and Fluid Mechanics
 - [12642](#) EEEIC SEd – International Conference on Environment and Electrical Engineering – Student Edition
 - [13717](#) Decarbonisation of Industrial Processes
 - [14049](#) Electrified Aero Engines
 - [14357](#) Low Carbon Electricity and Mobility Concepts
 - [14725](#) Industrial Heating Systems and their Defossilization
 - [35410](#) High Voltage Measuring and Testing Technique

Five-digit codes: module numbers with direct links to the respective module description

Please note: »Engineering – Compulsory Elective Modules« are not to be confused with »General Modules (FÜS)«!

Updated: 21 April 2026

¹does not apply for Double Degrees