

Specialised Laboratory

Energy Technology

WiSe 2024/25

The chairs of Energy Systems and Energy Economics (EE), Energy Systems and Energy Process Technology (LEAT), Thermal Turbomachinery and Aero Engines (TTF), Geothermal Energy Systems (Fraunhofer IEG) and Hydraulic Fluid Machinery (HSM) are offering a specialist laboratory for students on the Master's degree course in Mechanical Engineering in the winter semester. The following experiments are used to teach interesting and innovative techniques in the energy sector:

- A) Function and possible applications of a gas engine-powered combined heat and power unit (EE)
- B) Determination of performance map for a radial compressor stage (TTF)
- C) Flow measurement with laser Doppler anemometry (LEAT)
- D) Measuring the pressure distribution of a NACA profile (HSM)
- E) In situ measurement of the thermophysical parameters of geothermal probes using the geothermal response test (Fraunhofer IEG)

Interested students in the **English Master of Mechanical Engineering (Sustainable Energy & Circular Process Engineering)**, please register via **FlexNow until 06.10.2024** for the specialist laboratory.

The specialist laboratory starts on 14.10.2024. Participation in Moodle (course no. 138830 or 139403) is mandatory. The course is unlocked from 16.09. to 11.10.2024.

Contact person for the organization is Dr. Engelmann (chair TTF).

Further information can be found at the websites of the chairs (see below).

EE:	www.ee.rub.de
HSM:	www.hsm.rub.de
IEG:	www.ieg.fraunhofer.de
LEAT:	www.lead.rub.de
TTF:	www.ttf.rub.de