



Universität Stuttgart
Institut für Energieübertragung
und Hochspannungstechnik

**Lecture Announcement
Summer Semester 2026**

Planning and Operation of Decentralized Power Systems



In the summer semester of 2026, the course “Planning and Operation of Decentralized Power Systems” will be offered at the Institute for Power Transmission and High-Voltage Technology (IEH).

Taking into account distributed and renewable energy generation facilities, this course introduces students to the fundamentals and principles of grid planning and grid operation. In this context, the course first addresses the modeling of relevant equipment, such as wind farms. Subsequently, selected aspects of grid analysis, such as reliability analysis, are examined. Furthermore, the influences of the electricity industry and the liberalized energy market are discussed, and aspects such as blackouts and dynamic security assessment are explored in greater detail.

The lecture is part of the elective module catalog for the M. Sc. in Electrical Engineering and Information Technology as well as Sustainable Electrical Energy Supply.

The **lecture** takes place on **Mondays from 11.30 – 13.00 in V47.06**.
The **exercises** takes place on **Mondays from 14.00 – 15.30 in V57.02**.

The first lecture will take place on April 13, 2026, at 11:30 in Room V47.06.

More information: <https://ilias3.uni-stuttgart.de/go/crs/4207005>

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