

Bachelor's thesis at IEAN

General information about bachelor's thesis at the Institute of Electrical Power Systems

Initial situation and motivation

At the Institute of Electrical Power Systems, BSc thesis can be started at any time in all special fields of the institute. Due to reason of time, many possible bachelor's thesis are not explicitly advertised.

Research question(s)

You can come up with self-formulated research questions or formulate them together with a supervisor at the institute.

Procedure / Method / Task

The following topics are covered at the institute:

- Grid connection, grid code compliance
- Integration of HVDC systems
- Short circuit studies
- Distributed generation & storage
- Integration of e-mobility
- Sector coupling
- Optimization of power systems
- Operation and control of power systems
- Grid dynamics and stability
- Power quality and supply reliability
- Transient and steady state power systems calculations
- Blackout prevention and grid blackstart strategie
- Geomagnetically induced currents (GIC)
- Electromagnetic fields (EMF) of electrical power systems
- Ohmic, capacitive and inductive interference of power systems
- electromagnetic compatibility (EMC)
- Personal protection and protection against electric shock
- Grounding Systems

Organization matters

Start immediately.

Language: German or English

Contact person/Supervisor

You can contact any employee of the institute and you will be referred to the responsible person.

