

Schedule Power System Analysis

Location: G22A-H2 and online

Time: Friday, 3:15 pm to 6:45 pm

Lecturer: Prof. Dr.-Ing. habil. Martin Wolter

Content:

- Introduction to the tasks of network planning and system operation
- Equation systems to describe steady-state and quasi-steady-state problems in electric power networks
- Grid modeling using modal component systems
- Basic algorithms of power flow, short-circuit and stability calculations as well as state estimation
- Introduction to power grid modelling with MATLAB

Nr.	Date	Topic
1 2	16.10.2026	Introduction Modal components
3 4	30.10.2026	Equipment modelling I Equipment modelling II and grid equations
5 6	20.11.2026	Power Flow Calculation I Power Flow Calculation II
7	04.12.2026	Seminar Power Flow Calculation
8 9	18.12.2026	State Estimation Short-circuit calculation
10 11	08.01.2027	Stability I Stability II
12	22.01.2027	Repetition and exam preparation