

Schedule Power Network Planning and Operation

Location: G22A-H2 and online

Time: Friday, 3:15 pm to 4:45 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

No.	Date	Topic
1	18.10.2024	Introduction and modal components
2	25.10.2024	Equipment modelling I
3	01.11.2024	- no lecture -
4	08.11.2024	Equipment modelling II and grid equations
5	15.11.2024	- no lecture -
6	22.11.2024	Power Flow Calculation I
7	29.11.2024	Seminar Power Flow Calculation
8	06.12.2024	Power Flow Calculation II
9	13.12.2024	State Estimation
10	20.12.2024	- Christmas Holiday -
11	26.12.2024	- Christmas Holiday -
12	02.01.2025	- Christmas Holiday -
13	02.01.2025	Short-circuit calculation
14	17.01.2025	Stability I
15	24.01.2025	Stability II
16	31.01.2025	Repetition and exam preparation