

## Schedule Power Network Planning and Operation

Location: G03-315 and online

Time: Tuesday, 1:15 pm to 2:45 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.	Datum	Thema
1	10.10.2023	Introduction and modal components
2	17.10.2023	- no lecture -
3	24.10.2023	- no lecture -
4	31.10.2023	- public holiday -
5	07.11.2023	Equipment modelling I
6	14.11.2023	Equipment modelling II and grid equations
7	21.11.2023	Power Flow Calculation I
8	28.11.2023	Seminar Power Flow Calculation
9	05.12.2023	Power Flow Calculation II
10	12.12.2023	State Estimation
11	19.12.2023	Short-circuit calculation
12	26.12.2023	- Christmas Holiday -
13	02.01.2024	- Christmas Holiday -
14	09.01.2024	Stability I
15	16.01.2024	Stability II
16	23.01.2024	Repetition and exam preparation