

## Schedule Power Network Planning and Operation

Location: online

Time: Tuesday, 09:15 to 11:45 am

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	27.10.2020	Introduction to Power System Planning and Operation
2	03.11.2020	Modal components
3	10.11.2020	Equipment modelling I
4	17.11.2020	Equipment modelling II and grid equations
5	24.11.2020	Power Flow Calculation I
6	01.12.2020	Power Flow Calculation II
7	08.12.2020	Seminar Power Flow Calculation
8	15.12.2020	State Estimation
9	22.12.2020	- Christmas Holiday -
10	29.12.2020	- Christmas Holiday -
11	05.01.2021	Short-circuit calculation
12	12.01.2021	Stability I
13	19.01.2021	Stability II
14	26.01.2021	Modelling of faults
15	02.02.2021	Repetition and exam preparation