

## Schedule Power Network Planning and Operation

Location: Building 16 – Room 215

Time: Tuesday, 13:15 to 14:45 o'clock

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	15.10.2019	Introduction to Power System Planning and Operation
2	22.10.2019	Modal components
3	29.10.2019	Equipment modelling I
4	05.11.2019	Equipment modelling II and grid equations
5	12.11.2019	Power System Protection
6	19.11.2019	Power Flow Calculation I
7	26.11.2019	Power Flow Calculation II
8	03.12.2019	State Estimation
9	10.12.2019	Seminar Power Flow Calculation
10	17.12.2019	Short-circuit calculation
11	24.12.2019	- Christmas Holiday -
12	31.12.2019	- Christmas Holiday -
13	07.01.2020	Stability I
14	14.01.2020	Stability II
15	21.01.2020	Modelling of faults
16	28.01.2020	Repetition and exam preparation