

## Schedule Power Network Planning and Operation

Location: Building 16 – Room 215

Time: 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	09.10.2018	- no lecture -
2	16.10.2018	Introduction to Power System Planning and Operation
3	23.10.2018	Modal components
4	30.10.2018	Equipment modelling I
5	06.11.2018	Equipment modelling II and grid equations
6	13.11.2018	Power Flow Calculation I
7	20.11.2018	Power Flow Calculation II
8	27.11.2018	State Estimation
9	04.12.2018	Seminar Power Flow Calculation
10	11.12.2018	Short-circuit calculation
11	18.12.2018	Stability I
12	25.12.2018	- Christmas Holiday -
13	01.01.2019	- Christmas Holiday -
14	08.01.2019	Stability II
15	15.01.2019	Modelling of faults
16	22.01.2019	Repetition and exam preparation