

Schedule Power Network Planning and Operation

Location: G02-311 and online

Time: Wednesday, 11:15 am to 1:45 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	13.10.2021	Introduction to Power System Planning and Operation
2	20.10.2021	Modal components
3	27.10.2021	Equipment modelling I
4	03.11.2021	Equipment modelling II and grid equations
5	10.11.2021	Power Flow Calculation I
6	17.11.2021	Power Flow Calculation II
7	24.11.2021	State Estimation
8	01.12.2021	Short-circuit calculation
9	08.12.2021	Seminar Power Flow Calculation
10	15.12.2021	Stability I
11	22.12.2021	- Christmas Holiday -
12	29.12.2021	- Christmas Holiday -
13	05.01.2022	- Christmas Holiday -
14	12.01.2022	Stability II
15	19.01.2022	Modelling of faults
16	26.01.2022	Repetition and exam preparation