

Lectures plan

„Power System Economics and Special Topics“

Location: Building. 05 – Room 211

Time: 11:00-13:00 o'clock

Lecturer: Dr.-Ing. Pio Lombardi

Content

- Basics of economy and overview of markets
- Electric market architecture
- Economic electric dispatch
- Market for ancillary Services
- Planning of investment in transmission and generation sectors
- Kyoto Protocol and other environmental mechanisms
- Smart Grids and other special topics

Nr.	Date	Topic
1	12.10.2017	Basics concepts from economics I
2	19.10.2017	Basics concepts from economics II
3	26.10.2017	Markets for electrical energy
4	02.11.2017	Participation to the electricity market
5	09.11.2017	System Security and Ancillary Services
6	16.11.2017	Network reliability
7	23.11.2017	Transmission network and electricity market
8	30.11.2017	Power station scheduling
9	07.12.2017	Locational pricing, PTDF
10	14.12.2017	Investing in Generation and Transmission
11	21.12.2017	Carbon emissions Trading and technology
12	11.01.2018	New concept
13	18.01.2018	Summary and training for the examination

Exercises plan

„Power System Economics and Special Topics“

Location: Building. 22A – Room 217

Time: 13:00-15:00 o'clock

Teachers: Dr.-Ing. Pio Lombardi/ M.Sc. Przemyslaw Trojan

Nr.	Date	Topic
1	12.10.2017	Financial Mathematics
2	26.10.2017	Costs of Generating Electrical Energy: modelling of the cost-rate curves
3	09.11.2017	Evaluation of the power generation costs: Levelized Unit Energy Cost approach
4	23.10.2017	Electricity trading in market: profit and costs evaluation
5	07.12.2017	Economics of electricity generation: the economic dispatch problem
6	18.01.2017	Congestion pricing and nodal pricing