



NTUA
Electric Energy Systems Laboratory
School of Electrical and Computer Engineering
National Technical University of Athens

2009 Course Program

DER _LAB phd and researchers seminar

November 3rd -4th, 2009
Athens, Greece



Library Building of NTUA Campus

CONTENTS

Thursday, 3th November 2009

09:00 – 09:15	Welcome, Coffee
09:15 – 09:45	A new numerical algorithm for the analysis of single line to ground faults on short overhead transmission lines (Gary Preston)
09:45 – 10:15	T.Kolentini
10:15 – 10:45	Additional capabilities of inverter coupled DER units at the example of Multifunctional PV inverters (Dominik Geibel)
10:45 – 11:15	Coffee Break
11:15 – 11:45	Impact of DG on protection systems in electric distribution networks-innovative troubleshooting concepts (Nils Schäfer)
11:45 – 12:15	Contribution of doubly fed wind generators on power systems oscillation damping (G. Tsourakis)
12:15 – 12:45	Modeling and simulation of power electronics DC/DC and DC/AC converters for single phase grid connected PV system 220V, 50Hz (Angelina Tomova)
12:45 - 14:00	Lunch
14:00 – 14:30	Modeling fuel cells, real life applications-CRES laboratory, V2G (E. Zountouridou)
14:30 -15:00	Policy-based communication for the control of distributed power systems (Daniel Kullmann)
15:00 -15:15	Coffee Break
15:15 -15:45	“Wind Turbine Modeling and Ancillary services in Power Systems” I. Margaris
17:00	Visit to Museum Acropolis - Dinner

Wednesday, 4th November 2009

09:00 – 09:30	Estimation of the voltage controllability of Distribution Systems with locally distributed generation sources (Rad Stanev)
09:30 – 10:00	flexible coupling and decoupling of Distribution Networks using Power electronics (Roald de Graaf)
10:00 – 10:30	Machine Learning Applications on Dynamic Security Control of

10:30 – 11:00	Power Systems (E.Voumvoulakis) Coffee Break
11:00 – 11:30	Microgrid test bed using back to back converters (Alba Colet)
11:30 – 12:00	Investigation of flexible loads use and optimization of components for preservation of system's stability (Fridrik Isleifsson)
12:00 – 13:00	Lunch
13:00 – 13:30	MAS for Microgrid Control (A.Dimeas)
13:30 – 14:00	T.Tomtsi
14:00 – 14:30	Coffee Break
14:30 – 15:00	Rudiments of Home/Building Management Systems (HMS/BMS) with Energy Storage (Marek Pawtowski)
15:00 – 15:30	A.Anastasiadis
15:30 – 16:00	NTUA Laboratory of Microgrids & Inverter Tests (T. Romanos)
16:00-16:30	Eva Paraskevadaki
16:30 – 17:30	Final Discussion and Closing Session