

## Teaching portfolio

### **1. Teaching CV: A list of any lecturing and supervision tasks, including specification of academic fields, scope, level (bachelor, master, continuing education, PhD) as well as any external examiner tasks.**

#### 1. PhD. Supervision

P. Raboni (2016) on 'Modelling, Control and Integration of Distributed Generators for Enhanced Ancillary Services'

#### 2. M.S. Thesis in (2016)

i.) G. P. Tsolaridis, 'Investigation of a STATCOM Modular Multilevel Converter under unbalanced conditions.'

ii) U. Uslu and B. Zhang, 'Energy Storages and Flexible Loads to Support Large Wind Power Penetration'

iii) H. R. Parikh, R. S. Martin-Loeches, 'Control of Modular Multilevel Converter(MMC) based HVDC application under unbalanced conditions.'

#### 3. M.S. Thesis (2015)

R. Carollo, 'Increase of SPV Penetration in LV Grids by Smart Charging of EVs: the Italian Scenario.'

#### 4. MS 8th semester project supervision - 2 groups in 2016, and 1 group in 2015.

1. Delivered 4/15 lectures for the 8th semester course on High Power Converters, Devices and EMI/EMC (every Feb/Mar. since 2011).

#### 2. Organiser and lecturer for the Industrial/PhD courses on

i) An Introduction to HVDC and MTDC Transmission System (2014 - 2016)

ii) Stability of Modern Power Systems with High Penetration of Renewable Energy (2014 - 2016)

#### 3. Lecturer for the the Industrial/PhD courses on

i) Advanced Topics in Pulse Width Modulation for Voltage Source Converters (2014 - 2015)

ii) DC Microgrids (2013-2016)

iii) Modular Multilevel Converters MMC (planned for Nov. 2016)

### **2. Study administration: A list of any study administration tasks, e.g. study board membership, head of studies or semester or course coordinator, accreditation, etc.**

WPS Semester coordinator for the 3rd semester M.Sc. in Wind Power Systems in 2011.

### **3. University pedagogy qualifications: A list of any completed courses in university pedagogy, PBL courses, workshops, academic development projects, collegial guidance and supervision, etc.**

1. University Pedagogy for Assistant Professors at Aalborg University in the period October 2011 - February 2013 ( 10 ECTS)

2. PBL in engineering and science, development of supervisor skills (October 2009)

### **4. Other qualifications: Conference attendance, editorials, presentations, etc. relating to education, 'University Teaching Day', etc.**

1. One-day seminar for PhD supervisors, 28-10-2015

2. Seminar- Revision of the Energy Engineering study curriculum (MSc) (3-5-2016)

2. Digital Exam - Workshop on experiences and worktools (13-10-2016)

### **5. Teaching activity development and teaching materials: A list of any contributions to the development of new modules, teaching materials, study programmes, e-learning, collaboration with external business partners, etc.**

1. Developed and updated the course materials and exercises for the following industrial/PhD Courses course:

i.) An Introduction to HVDC and MTDC Transmission System (2014 - 2016)

ii) Stability of Modern Power Systems with High Penetration of Renewable Energy (2014 - 2016)

iii) Advanced Topics in Pulse Width Modulation for Voltage Source Converters (2014 - 2015)

iv) DC Microgrids (2013-2016)

v) Modular Multilevel Converters MMC (planned for Nov. 2016)

2. 8th sem. course on High Power converters, Devices and EMI/EMC. (2012 - 2016).

### **6. Teaching awards you may have received or been nominated for.**

Type your answer here...

**7. Personal reflections and initiatives:** Here you may state any personal deliberations as regards teaching and supervision, any wishes and plans for further pedagogic development, plans for following up on feedback/evaluations from students, etc.

Type your answer here...

**8. Any other information or comments.**

Type your answer here...