

## 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.

Student project supervision:

Year / semester / no of students / project title

2009 / 6 / 2 / Flash discharge lamp

2009 / 7 / 6 / Modelling and analysis of photovoltaic systems

2009 / 7 / 5 / Improvement to the domestic energy supply - wind energy

2009 / 7 / 4 / Study and simulation of photovoltaic systems in MATLAB / Simulink

2010 / 7 / 1 / Thermal characterization of power IGBT modules

2010 / 10 / 2 / Control of grid side inverter for wind turbine

2012 / 1 / 6 /

2012 / 5 / 4 / Bidirectional converter for wireless charging

2012 / 10 / 1 / Study of non-linear phenomena of a novel high frequency control of a buck converter

2013 / 3 / 6 / Designing an electronic load for testing single fuel cell

2014 / 4 / 5 / Regulering af flyvehøjden på en drone en dimension

2014 / 3 / 6 /

2015 / 9 / 2 /

2015 / 9 / 2 / Lifetime setup for 10kV power modules

2016 / 4 / 7 / Regulering af pitchvinkel på autonomt undervandsfartøj

2016 / 10 / 2 / 10kV SiC lifetime

2016 / 10 / 2 / Power supply for electrostatic precipitators

Teaching tasks:

Digital electronics – lectures on bachelor level 2009–2016

Elektriske grundfag - lectures on bachelor level 2013–2015

Matlab and Control Theory - lectures on bachelor level 2014–2015

Power Module Packaging, Failure Mechanisms, Lifetime Testing and Post Mortem Analysis - lectures and laboratory exercises on PhD level 2106

### 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.

none

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

Basic course in pedagogy for university teachers 2009

PBL in engineering and science – development of supervisor skills course 2009

Adjunktpædagogikum course 2013

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

University Teaching Day 2013

University Teaching Day 2014

### 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.

Active participation in Energiseminar on creating a new teaching portfolio for Energy department students 2015

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

**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.

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