

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.

Teaching:

Energitekniske Grundfag, (termodynamik) 1. semester 2,5 ECTS
Energisystemers Grundlæggende Funktion og Opbygning , 1. semester, 2,5 ECTS
Refrigeration and Heat Pumps, 5th semester, 1,5 ECTS
Problem Based Learning, 7. semester INTRO students, 1,25 ECTS
Thermodynamics, MAN Diesel & Turbo and AAMS, Service technicians and Engineers
Teknologi på Mikroplan: Technoantropologi 2. Semester 1,25 ECTS

Project supervision (examples):

1st Semester ET: 1. Local temperature boosting of district heating temperature
2. Lake water as heat source for heat pump
2nd Semester ET 1. Modelling of Stirling Engine
2. Local energy supply to the island Livø (semester theme)
3rd Semester ET 1. Modelling of flow distribution and flow patterns in ground source heat pump hoses
2. Collection of moisture for water collection
5th Semester ET 1. Utilization of waste heat for district heating
2. CSP and ORC for integrated heat and power supply
7th Semester Bachelor: Integration of large heat pump in a District Heating system
8th Semester ET 1. Modelling and optimization of Solid Oxide Fuel Cell
2. Modelling and optimization of a small scale district heating system
Master project ET 1. Absorption Heat Pump for airconditioning, Driven by Fuel Cell Waste Heat
2. Optimisation of Defrost Strategy for an Air-to-Water Heat Pump
1st semester TAN: 1. Brugerinddragelse i relation til design af lavenergihuse
2. Komfort i lavenergihuse – en technoantropologisk undersøgelse
2nd semester TAN: 1. Energy management
2. LCA for Large Wind turbines
PhD Supervision: 1. Net Zero energy Buildings – Christian Milan
2. 4th Generation District Heating – Soma Mohammadi + Maksym Kotenko

External Censor:

DTU: Written exam in Heat transfer course, 7 semester
Ingeniørhøjskolen Aarhus: Project exams
Oral exam in heat transfer

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.

- Semester coordinator 1st and 2nd semester Energy Technology.
- Member of the work group for a revision of the curriculum for the Techno Antropology (Tekan) study
- Course coordinator – Teknologi på Mikroplan, 2nd semester Tekan

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

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

Type your answer here...

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.

Dansk Varmepumpe Industri DVI

Viborg Fjernvarme

Brønderslev Fjernvarme

Trigon – Green Source

Consulting Companies: COWI, Niras, PlanEnergi, Rambøll

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...