

Undervisningsportfolio

1. Undervisnings-CV: Oversigt over undervisnings- og vejledningsopgaver med angivelse af fagområder, omfang, undervisningsniveau (bachelor, kandidat, efter-/videreuddannelse, ph.d.). Type af undervisningsform angives, f.eks. forelæsning, holdundervisning, øvelse, vejledning, eksamination, censur, fjernundervisning, internetbaseret undervisning og evaluering af undervisning. Undervisningssprog angives.

Teaching Experience (all in English):

◆ 2022 Autumn semester:

- *Electrical machines*: undergraduate level course for EE5/ME5/MED5 students at Aalborg campus and DS5/AIE5 students at Esbjerg campus. Videolink system and MS Teams meeting (online participation and lecture recording) are used for lecturing to all students. Lab exercises are prepared for students at Aalborg campus.
- *Dynamic models of electrical machines and control systems*: graduate level course for PED1/EPH1/WPS1/MCE1/INTRO students at Aalborg campus. MS Teams meeting (online participation and lecture recording) is used for lecturing; exercises, workshop and lab exercises are prepared.
- *Modern electrical drives*: graduate level course for MCE3/PED3/EPH3/WPS3/EMSD3 students at Aalborg campus. Lectures and mini-projects.

◆ 2022 Spring semester:

- *Dynamic models of electrical machines and control systems*: graduate level course for OES2/APEL2 students at Esbjerg Campus; MS Teams meeting (online participation and lecture recording) is used for lecturing.
- *AC Motor Drives - Converters and Control*: graduate level course for EMSD2 students. Lectures, exercises and lab exercise.
- *Understand how to write good papers for high level journals*: PhD course for all PhD students. Lecture and online workshop.

◆ 2021 Autumn semester:

- *Electrical machines*: undergraduate level course for EE5/ME5/MED5 students at Aalborg campus and DS5/AIE5 students at Esbjerg campus. Videolink system and MS Teams meeting (online participation and lecture recording) are used for lecturing to all students. Lab exercises are prepared for students at Aalborg campus.
- *Dynamic models of electrical machines and control systems*: graduate level course for PED1/EPH1/WPS1/MCE1/INTRO students at Aalborg campus. MS Teams meeting (online participation and lecture recording) is used for lecturing; exercises, workshop and lab exercises are prepared.
- *Modern electrical drives*: graduate level course for MCE3/PED3/EPH3/WPS3/EMSD3 students at Aalborg campus and OES3/APEL3 students at Esbjerg campus. Videolink system and MS Teams meeting (online participation and lecture recording) are used for lecturing and mini-projects are planned.
- *Actuation and Robotics*: undergraduate level course for MP5/IP5 students. Lectures and exercises are planned. Moodle quiz is used for examination.
- *Control of Fluid Power and Electrical Servomechanisms*: graduate level course for EMSD1 students. Lectures and exercises are planned.

◆ 2021 Spring semester:

- *Dynamic models of electrical machines and control systems*: graduate level course for OES2/APEL2 students at Esbjerg Campus; MS Teams meeting (online participation and lecture recording) is used for lecturing.
- *Understand how to write good papers for high level journals*: PhD course for all PhD students. Lecture and online workshop.

◆ 2020 Autumn semester:

- *Electrical machines*: undergraduate level course for EE5/ME5/MED5 students at Aalborg campus and DS5/AIE5 students at Esbjerg campus. Videolink system and MS Teams meeting (online participation and lecture recording) are used for lecturing to all students. Lab exercises are prepared for students at Aalborg campus.
- *Dynamic models of electrical machines and control systems*: graduate level course for PED1/EPH1/WPS1/MCE1/INTRO students at Aalborg campus. MS Teams meeting (online participation and lecture recording) is used for lecturing; exercises, workshop and lab exercises are prepared.
- *Modern electrical drives*: graduate level course for MCE3/PED3/EPH3/WPS3/EMSD3 students at Aalborg campus and OES3/APEL3 students at Esbjerg campus. Videolink system and MS Teams meeting (online participation and lecture recording) are used for lecturing and mini-projects are planned.

◆ 2020 Spring semester:

- *Understand how to write good papers for high level journals*: PhD course for all PhD students. Online lecture and workshop.

◆ 2019 Autumn semester:

- *Electrical machines*: undergraduate level course for EE5/ME5/MED5 students. Lectures, exercises and lab exercises.
- *Dynamic models of electrical machines and control systems*: graduate level course for PED1/EPH1/WPS1/MCE1/INTRO students. Lectures, exercises, workshop and lab exercises.
- *Modern electrical drives*: graduate level course for MCE3/PED3/EPH3/WPS3/EMSD3 students at Aalborg campus and OES3/APEL3 students at Esbjerg campus. Videolink system is used for lecturing and mini-projects are planned.

◆ 2019 Spring semester:

- *Understand how to write good papers for high level journals*: PhD course for all PhD students. Lecture.

- ◆ 2018 Autumn semester:
 - *Electrical machines*: undergraduate level course for EE5/ME5/MED5 students. Lectures, exercises and lab exercises.
 - *Dynamic models of electrical machines and control systems*: graduate level course for PED1/EPH1/WPS1/MCE1/INTRO students. Lectures, exercises, workshop and lab exercises.
 - *Modern electrical drives*: graduate level course for MCE3/PED3/EPH3/WPS3/EMSD3 students at Aalborg campus and OES3/APEL3 students at Esbjerg campus. Videolink system is used for lecturing and mini-projects are planned.
 - *Modern electrical machine and drive systems*: PhD course for energy engineering students. Lectures.
- ◆ 2018 Spring semester:
 - *Understand how to write good papers for high level journals*: PhD course for all PhD students. Lecture.
- ◆ 2017 Autumn semester:
 - *Electrical machines*: undergraduate level course for EE5/ME5/MED5 students. Lectures, exercises and lab exercises.
- ◆ 2016 Autumn semester:
 - *Electrical machines 2*: undergraduate level course for EE5/ME5/MED5 students. Lectures and exercises.
 - *Modern electrical drives*: graduate level course for MCE3/PED3/EPH3/WPS3/EMSD3 students. Lectures.
 - *Modern electrical machine and drive systems*: PhD course for energy engineering students. Lectures.
- ◆ 2014 Autumn semester:
 - *Modern electrical machine and drive systems*: PhD course for energy engineering students. Lectures.

Project Supervision (all in English):

- ◆ Graduate level: Have supervised >30 Masters programme student projects.
- ◆ Undergraduate level: Have supervised 5 Bachelor programme student projects.
- ◆ PhD level: Have co-supervised 4 PhD projects.
- ◆ 2022 Autumn semester: 5 master programme student projects (INTRO-MCE/MCE2/MCE3/EMSD3/PED4), 1 bachelor programme student project (ME5).
- ◆ 2022 Spring semester: 5 master programme student projects (PED2/MCE2/EMSD2).
- ◆ 2021 Autumn semester: 1 master programme student project (MCE3), 1 bachelor programme student project (ME5).
- ◆ 2021 Spring semester: 2 master programme student projects (MCE2).
- ◆ 2020 Autumn semester: 1 master programme student project (INTRO-PED).
- ◆ 2020 Spring semester: 4 master programme student projects (PED2/MCE2/MCE4).
- ◆ 2019 Autumn semester: 1 master programme student project (PED1).
- ◆ 2019 Spring semester: 3 master programme student projects (PED2/MCE2/PED4).
- ◆ 2018 Autumn semester: 1 master programme student project (PED1/PED3).
- ◆ 2018 Spring semester: 2 master programme student projects (PED2/MCE4).
- ◆ 2017 Autumn semester: 1 master programme student project (PED2/PED3), 2 bachelor programme student project (EE3/EE6).
- ◆ 2017 Spring semester: 3 master programme student projects (PED2/PED4), 1 bachelor programme student project (EE6).
- ◆ 2016 Autumn semester: 2 master programme student project (PED3).
- ◆ 2016 Spring semester: 2 master programme student projects (PED2).

2. Administration og ledelse af uddannelse: Erfaring med uddannelsesledelse og –koordinering. Oversigt over studieadministrative opgaver, eksempelvis medlem af studienævn, studieleder, semesterkoordinator, fagkoordinator, akkreditering m.v. Erfaringer med planlægning af uddannelsesafvikling. Erfaring med udvikling af uddannelser. Deltagelse i udvalg, kommissioner m.m. vedr. uddannelse.

Semester coordinator on the INTRO semester (Master level) of all electrical specializations. 2017 - onwards.
Semester coordinator on the second semester (Master level) of EMSD specialization. 2022.

3. Formel pædagogisk uddannelse: Oversigt over gennemførte universitetspædagogiske kursusforløb, PBL-kurser, workshops, udviklingsprojekter, kollegial supervision o.l. Udtalelse fra universitetspædagogikum. Deltagelse i konferencer om pædagogik og didaktik. Dokumentation i form af kursusbeviser, udtalelser m.m. vedlægges.

Completed the course "University Pedagogy for Assistant Professors at Aalborg University" (Adjunktpædagogikum), January 2019 - August 2020

4. Andre kvalifikationer: Bidrag til konferencer, debatindlæg, videnskabelige artikler om pædagogiske emner m.v. Kollegiasupervision, redaktørarbejde, erfaring som mentor og anden kompetenceudvikling.

5. Pædagogisk udvikling og forskning: Udvikling af nye kurser, undervisningsmateriale, undervisnings- og eksamensformer eller andet udviklingsarbejde. Didaktisk og pædagogisk forskning. Samarbejde med eksterne samarbejdspartnere.

Development of teaching material for all the above mentioned courses. Teaching material include:

- ◆ Slides
- ◆ Extensive solutions to problems
- ◆ Notes
- ◆ Lab exercise setups

**6. Udtalelser om undervisningskompetencer fra foresatte og kolleger.
Undervisningsevalueringer og eventuelle udmærkelser for undervisningsvaretagelse.**

7. Evt. personlige refleksioner og initiativer: Personlige overvejelser knyttet til undervisning og vejledning, ønsker til og planer for pædagogisk videreudvikling, planer for opfølgning på undervisningsevalueringer m.v. Refleksioner over eget pædagogiske arbejde, dets målsætninger, metoder og gennemførelse. I refleksionen analyseres og motiveres dine pædagogiske aktiviteter i forhold til din pædagogiske forståelse og de studerendes læring. Tanker om undervisningsformen på Aalborg Universitet, der har et stort indhold af gruppeorganiseret projektarbejde og problembaseret læring (PBL).

8. Andet.