

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 (Courses) Test and Validation including System Set-up and Understanding, AIE6, spring 2021, 9/9 lectures, 5ECTS Test and Validation including System Set-up and Understanding, AIE6, spring 2022, 9/9 lectures, 5ECTS Test and Validation including System Set-up and Understanding, AIE6, spring 2023, 9/9 lectures, 5ECTS Test and Validation including System Set-up and Understanding, AIE6, spring 2024, 9/9 lectures, 5ECTS Teaching Assistance (Courses) Process Control, Instrumentation and Safety + Fundamental Control Theory, (KBT6, CBT6, M6, EN4, AIE4), spring 2021, Laboratory part Process Control, Instrumentation and Safety + Fundamental Control Theory, (KBT6, CBT6, M6, EN4, AIE4), spring 2022, Laboratory part Process Control, Instrumentation and Safety + Fundamental Control Theory, (KBT6, CBT6, M6, EN4, AIE4), spring 2023, Laboratory part Process Control, Instrumentation and Safety + Fundamental Control Theory, (KBT6, CBT6, M6, EN4, AIE4), spring 2024, Laboratory part Non-linear control and Multi-body Systems, (IRS1, OES3), Teaching Assistant, fall 2022 Non-linear control and Multi-body Systems, (IRS1, OES3), Teaching Assistant, fall 2023 Applied Optimisation for Energy Systems Engineering, (APEL3/OES3), Teaching Assistant, fall 2022 Teaching (Supervisor) Autonomous Emergency Braking, AIE1, 50%, fall 2021 Sun Tracking, AIE1, 50%, fall 2021 Smart Home Security, AIE1, 50%, fall 2021 Smart Bike Lock, AIE1, 50%, fall 2021 Det Sol Forsynede Hus, EN1, fall 2021 Cocktail Machine, AIE2, 50%, spring 2022 Elevator, AIE2, 50%, spring 2022 Transport Drone, AIE2, 50%, spring 2022 Underwater Transport, AIE2, 50%, spring 2022 Energiø: HVDC, LeadENG, EN2, spring 2022 Energiø: PtX, EN1, spring 2022 Bølgeenergi, EN1, spring 2022 Sun Tracker, AIE1, 50%, fall 2022 Boat Balancing with Fluid Tanks, AIE1, 50%, fall 2022 Autonomous Removal of Plastic Waste: Catamaran, LeadENG, AIE1, 50%, fall 2022 Autonomous Removal of Plastic Waste: Plastic Sensor, LeadENG, AIE1, 50%, fall 2022 Autonomous Emergency Braking, AIE1, 50%, fall 2022 Gantry Crane: State Space, AIE5, fall 2022 Gantry Crane: Fault Detection, APEL1, fall 2022 Digital Twin: Vibration Plate, MA5, fall 2022 Catamaran, Onboard Energy System, LeadENG, EN2, spring 2023 Catamaran, Charging Hub, LeadENG, EN2, spring 2023 Two-Axis Elevator, AIE2, spring 2023 Solar-Battery Charger Circuit, AIE2, spring 2023 Hand-Arm Prosthetics, AIE2, spring 2023 Shelf-Floor Storage Routing, AIE2, spring 2023 Gantry Crane: Genetic Algorithm, AIE4, spring 2023 Gantry Crane: PIDs, AIE4, spring 2023 Vector Thrust, AIE4, spring 2023 Gantry Crane: Energy Optimization, EN4, spring 2023 Gantry Crane: System Identification + Genetic Algorithm, EN6, spring 2023 Self-Sustainable House 1, EN1, 50%, fall 2023 Self-Sustainable House 2, EN1, 50%, fall 2023 Self-Sustainable House: Insolation, EN1, 50%, fall 2023 Smart Water Bottle, AIE1, 50%, fall 2023 Smart Plant Pot, AIE1, 50%, fall 2023 Industrial Plant Pot, AIE1, 50%, fall 2023 Domestic Plant Pot, AIE1, 50%, fall 2023 Bottling Machine, AIE1, 50%, fall 2023 Eco-System Box, AIE1, 50%, fall 2023 Wind Turbine: Monitoring, AIE3, fall 2023 Radar Anti-Drone Turret, AIE3, fall 2023 Gantry Crane: State Space, AIE5, fall 2023 Gantry Crane: State Space, Genetic Algorithm, EN5, fall 2023 Steward Platform: Setup and State Space, EN5, fall 2023 Three-Phase Separator: Modeling and Control, APEL 9, fall 2023 Hydrogen Storage 1, RISK 9, 50%, fall 2023 Hydrogen Storage 2, RISK 9, 50%, fall 2023

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, AIE1, fall 2021, fall 2022, fall 2023, - NOW Semester coordinator, AIE2, spring 2022, spring 2023, - NOW Semester coordinator, EN1, fall 2022, fall 2023- NOW

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.

University Pedagogy for Assistant Professors 2022

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

TBD

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

TBD

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

Teacher of the year at Study Board of Energy 2022

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).

Great teaching is an ever-evolving task that requires adaptation of teaching method and materials according to students' feedback and preferences. From feedback, it was clear that even early semester students benefit from being engaged with a company. Therefore, I continually strive to design and connect semester projects with possibility of industry collaboration. Additionally, I prioritize creating, maintaining, and providing an environment where student groups can produce prototypes through various means to boost learning engagement through ownership.

8. Andet.

I coordinate multiple workshops for primary and high school related to drones, automation, offshore wind, control, ptx and other local research areas with the purpose to both inform the participants about engineering and research and to promote Aalborg University.