

## Undervisningsportfolio

### 1. Undervisnings-CV: Oversigt over undervisnings- og vejledningsopgaver med angivelse af fagområder, omfang, niveau (BA, kandidat, EVU, Ph.d) samt evt. censoropgaver.

Allteaching activities listed below have been carried out at Aalborg University, Department of Architecture, Design & Media Technology in the period 2007-2015. Following abbreviations stand for:

MA1 ARK: 1st semester master, architecture

MA2 ARK: 2nd semester master, architecture

MA3 ARK: 3rd semester master, architecture

BA1 ARKURB – AD1 & AD2: 1st semester bachelor, architectural/urban design – two large groups, 1 and 2

BA4 ARKURB: 4th semester bachelor, architectural/urban design

BA5 ARKURB: 5th semester bachelor, architectural/urban design

#### 2016

Fall

**Supervision**, 2 groups, BA5ARKURB, *Energioptimeret byggeri* (15 ECTS project module)

**Supervision**, BA5 ARKURB, *Teknologi, samfund og arkitektur 3* (course module)

**Examiner**, BA5 ARKURB, *Teknologi, samfund og arkitektur 3* (course module)

**Supervision and organiser**, field trip to Aarhus, DK, BA5ARKURB, *Teknologi, samfund og arkitektur 3* (course module)

**Lecture**, BA5 ARKURB, *Semesterintroduktion*, in project module: 'Energioptimeret byggeri'

**Lecture**, BA5 ARKURB, *Introduktion – Arkitektoniske arbejdsmetoder, tværfaglighed og programmet som redskab*, in course module: 'Teknologi, samfund og arkitektur 3'

**Lecture**, BA5 ARKURB, *Den offentlige og halvoffentlige bygning i et arkitektonisk og teknologisk perspektiv*, in course module: 'Teknologi, samfund og arkitektur 3'

**Lecture**, BA5 ARKURB, *Metoder til registrering af brugergrupper og funktionelle krav*, in course module: 'Teknologi, samfund og arkitektur 3'

**Workshop**, BA5 ARKURB, *Metoder til registrering af brugergrupper og funktionelle krav*, in course module: 'Teknologi, samfund og arkitektur 3'

**Supervision**, field trip to Aalborg, DK, BA5 ARKURB, *Teknologi, samfund og arkitektur 3* (course module)

**Lecture + Workshop** (3 days), MA1 ARK, *Mini-workshop 2: Detailing and Materials*, in project module: 'Tectonic Design: Structure and Construction'

**Supervision**, 1 group, MA1 ARK, *Tectonic Design: Structure and Construction* (20 ECTS project module)

Spring

**Supervision**, 3 groups, MA4 ARK, *Master Thesis* (30 ECTS)

**Supervision**, 2 groups, MA2 ARK, *Sustainable Architecture* (20 ECTS)

**Lecture**, MA2 ARK, *Materials and Materiality in Architecture*, in project module: 'Sustainable Architecture'

**Workshop** (2 days), MA2 ARK, *Materials*, in project module: 'Sustainable Architecture'

**Critic at workshop**, MA2 ARK, *Materials*, in project module: 'Sustainable Architecture'

**Lecture**, MA2 ARK, *Design Principles – designing holistic Zero Energy Buildings 1*, in course module: 'Zero Energy Buildings'

**Lecture**, MA2 ARK, *Design Principles – designing holistic Zero Energy Buildings 2*, in course module: 'Zero Energy Buildings'

**Supervision**, MA2 ARK, *Integrated Design of Sustainable Architecture* (5 ECTS course module)

#### 2015

Fall

**Supervision**, 2 groups, BA5 ARKURB, *Energioptimeret byggeri* (15 ECTS project module)

**Supervision**, BA5 ARKURB, *Teknologi, samfund og arkitektur 3* (course module)

**Examiner**, BA5 ARKURB, *Teknologi, samfund og arkitektur 3* (course module)

**Supervision and organiser**, field trip to Aarhus, DK, BA5 ARKURB, *Teknologi, samfund og arkitektur 3* (course module)

**Lecture**, BA5 ARKURB, *Semesterintroduktion*, in project module: 'Energioptimeret byggeri'

**Lecture**, BA5 ARKURB, *Introduktion – Arkitektoniske arbejdsmetoder, tværfaglighed og programmet som redskab*, in course module: 'Teknologi, samfund og arkitektur 3'

**Lecture**, BA5 ARKURB, *Den offentlige og halvoffentlige bygning i et arkitektonisk og teknologisk perspektiv*, in course module: 'Teknologi, samfund og arkitektur 3'

**Lecture**, BA5 ARKURB, *Metoder til registrering af brugergrupper og funktionelle krav*, in course module: 'Teknologi, samfund og arkitektur 3'

**Workshop**, BA5 ARKURB, *Metoder til registrering af brugergrupper og funktionelle krav*, in course module: 'Teknologi, samfund og arkitektur 3'

**Supervision**, field trip to Aalborg, DK, BA5 ARKURB, *Teknologi, samfund og arkitektur 3* (course module)

**Examiner**, BA5 ARKURB, *Husbygning 2: Hygrotermisk bygningsfysik* (course module)

**Lecture + workshop** (3 days), MA1 ARK, *Mini-workshop 3: Design development and Detailing*, in project module: 'Tectonic Design: Structure and Construction'

**Supervision**, 2 groups, MA1 ARK, Tectonic Design: Structure and Construction (20/15 ECTS project module)

Spring

**Supervision**, 3 groups, MA2 ARK, Sustainable Architecture (20 ECTS)

**Lecture**, MA2 ARK, Materials and Materiality in Architecture, in project module: 'Sustainable Architecture'

**Workshop** (2 days), MA2 ARK, Materials, in project module: 'Sustainable Architecture'

**Lecture**, MA2 ARK, Sustainable urban housing – climate, volume, orientation and access, in project module: 'Sustainable Architecture'

**Workshop** (2 days), MA2 ARK, Climate, volume, orientation and access, in project module: 'Sustainable Architecture'

**Lecture**, MA2 ARK, Design Principles – designing holistic Zero Energy Buildings 1, in course module: 'Integrated Design of Sustainable Architecture'

**Lecture**, MA2 ARK, Design Principles – designing holistic Zero Energy Buildings 2, in course module: 'Integrated Design of Sustainable Architecture'

**Supervision**, MA2 ARK, Architectural Zero-Energy Concepts (5 ECTS course module)

**Supervision**, MA2 ARK, Study trip to London, 6 days

**2014**

Fall

**Supervision**, BA1 ARK URB – AD1 & AD2, Form og teknik 1: Form, rum og konstruktion, Opgave 2: Fladen & Rummet (course module)

**Supervision**, 4 groups, BA1, Bygning og lys (project module)

**Examiner**, BA5 ARK URB, Arkitektur 2 – Rum og Klima (course module)

**Supervision**, BA5 ARK URB, Metode og Visualisering 4 – Program og diagram (course module)

**Coordinator of course module** (5 ECTS), BA5 ARK URB, Metode og Visualisering 4 – Program og diagram

**Supervision**, 3 groups, MA1 ARK, Tectonic Design: Structure and Construction (project module)

**Examiner**, MA1 ARK, Tectonic Studies and Experimentation in Form, Structure, Material and Details (course module)

**Examiner**, MA3 ARK, Academic Internship (project module)

Spring

**Supervision**, MA2 ARK, Architectural Zero-Energy Concepts (course module)

**Lecture**, MA2 ARK, Design Principles – designing holistic Zero Energy Buildings 1, in course module: 'Integrated Design of Sustainable Architecture'

**Lecture**, MA2 ARK, Design Principles – designing holistic Zero Energy Buildings 2, in course module: 'Integrated Design of Sustainable Architecture'

**Supervision**, 6 groups, MA2 ARK, Sustainable Architecture (project module)

**Critical workshop**, MA2 ARK, Climate, Volume, Orientation, and Access (by Hans Bruun Olesen)

**Lecture**, MA2 ARK, Materials and Materiality in Architecture, in project module: 'Sustainable Architecture'

**Workshop** (2 days), MA2 ARK, Materials, in project module: 'Sustainable Architecture'

**2013**

**Supervision**, 2 groups, MA2 ARK, Sustainable Architecture (project module)

**Critical workshop**, MA2 ARK, Materials and Solar Cells (by Isak Worre Foged)

**Examiner**, 1 group, BA1 ARK URB, Bygning og Lys (project module)

**2012**

**Supervision**, 3 groups, MA2 ARK, Sustainable Architecture (project module)

**Examiner**, MA1 ARK, Studies and Experimentation in Tectonic Culture (course module)

**Supervision**, 2 groups, MA1 ARK, Tectonic Design and Nordic Architecture (project module)

**Supervision**, MA2 ARK, Architectural Zero-Energy Concepts (course module)

**2011**

**Supervision at Workshop** (1 day), BA4 ARK URB, Arkitektur og husbygning

**2010**

**Examiner**, 3 groups, BA5 ARK URB, Tilbygning Kunsten (project module)

**Supervision**, MA2 ARK, Conceptual Architectural Design (mini-project)

**2009**

**Lecture and Workshop** (1 day), BA5 ARK URB, Træs æstetiske potentialer

**2008**

**Supervision**, 3 groups, BA4 ARK URB, Bybygning - Bebyggelses- og bygningsdesign (project module)

**Lecture and Workshop** (1 day), BA4 ARK URB, Træs æstetiske potentialer

**Lecture and Workshop** (1 day), BA5 ARK URB, Arkitektonisk detaljering i træ

**2007**

**Lecture and Workshop** (1 day), MA3 ARK, Architectural detailing in wood

## **2. Studieadministration: Oversigt over studieadministrative opgaver, eksempelvis medlem af studienævn, studieleder, semesterkoordinator, fagkoordinator, akkreditering m.v.**

2016

Suppleant i Studienævnet for Arkitektur og Design

Semester coordinator, BA5 ARKURB

Project coordinator, BA5 ARKURB, Energioptimeret byggeri (project module)

Course coordinator, BA5 ARKURB, Teknologi, samfund og arkitektur 3 (course module)

2015

Semester coordinator, BA5 ARKURB

Project coordinator, BA5 ARKURB, Energioptimeret byggeri (project module)

Course coordinator, BA5 ARKURB, Teknologi, samfund og arkitektur 3 (course module)

2014

Course coordinator, BA5 ARKURB, Metode og Visualisering 4 – Program og diagram (course module)

## **3. Universitetspædagogiske kvalifikationsforløb: Oversigt over gennemførte universitetspædagogiske kursusforløb, PBL-kurser, workshops, udviklingsprojekter, kollegial supervision o.l.**

Oversigt over gennemførte universitetspædagogiske kursusforløb, PBL-kurser, workshops, udviklingsprojekter, kollegial supervision o.l.

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## **4. Anden form for kvalificering: Konferencedeltagelse, debatindlæg, oplæg m.v. i relation til uddannelse, "Undervisningens dag", o.l.**

Conference attendance, editorials, presentations, etc. relating to education, 'University Teaching Day', etc.

2016

CLIMA 2016 - 12th REHVA World Congress, 22-25 May 2016, Aalborg, Denmark

Anne Kirkegaard Bejder (Deltager og oplægsholder), 22 → 25 maj 2016

2014

Designprincipper og byggede eksempler

Anne Kirkegaard Bejder (Oplægsholder), 26 maj 2014

Aktivitet: Foredrag og mundtlige bidrag

2013

International Conference: Towards Net Zero Energy Buildings

Anne Kirkegaard Bejder (Deltager), 30 apr. 2013

Aktivitet: Konference/workshop/kursus/seminar › Organisation og deltagelse i konference

Forskningsseminar om bæredygtighed og lavenergibyggeri

Anne Kirkegaard Bejder (Taler), 8 maj 2013

Aktivitet: Konference/workshop/kursus/seminar › Organisation og deltagelse i konference

Zero Energy Buildings

Anne Kirkegaard Bejder (Taler), 22 maj 2013 → 23 maj 2013

Aktivitet: Konference/workshop/kursus/seminar › Deltagelse i workshop, seminar og kursus

ZEB-temamøde om Integreret Design af 0 og + energi byggeri

Anne Kirkegaard Bejder (Taler), 18 sep. 2013

Aktivitet: Konference/workshop/kursus/seminar › Deltagelse i workshop, seminar og kursus

2012

Zero Emmision Buildings

Anne Kirkegaard Bejder (Taler), 23 maj 2012 → 24 maj 2012

Aktivitet: Konference/workshop/kursus/seminar › Deltagelse i workshop, seminar og kursus

ZEB temamøde - Bygninger og Smart Grid

Anne Kirkegaard Bejder (Deltager), 17 sep. 2012

Aktivitet: Konference/workshop/kursus/seminar › Deltagelse i workshop, seminar og kursus

2010

The First International Conference on Structures and Architecture, ICSA 2010  
Anne Kirkegaard Bejder (Taler), 23 jul. 2010  
Aktivitet: Konference/workshop/kursus/seminar › Organisation og deltagelse i konference

Wood for Good  
Anne Kirkegaard Bejder (Deltager), 20 sep. 2010  
Aktivitet: Konference/workshop/kursus/seminar › Deltagelse i workshop, seminar og kursus

2008  
Forskningens Dag : Institut for Byggeri og Anlæg  
Anne Kirkegaard Bejder (Oplægsholder), 8 jan. 2008  
Aktivitet: Foredrag og mundtlige bidrag

Passivhus Norden 2008  
Anne Kirkegaard Bejder (Taler), 2 apr. 2008  
Aktivitet: Konference/workshop/kursus/seminar › Organisation og deltagelse i konference

## **5. Undervisningsudviklingsforløb og undervisningsmateriale: Oversigt over medvirken til udvikling af nye moduler, undervisningsmateriale, uddannelser, e-learning, samarbejde med eksterne samarbejdspartnere o.l.**

Oversigt over medvirken til udvikling af nye moduler, undervisningsmateriale, uddannelser, e-learning, samarbejde med eksterne samarbejdspartnere o.l.

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## **6. Nominering til og/eller modtagelse af undervisningspriser.**

Årets Underviser 2016 ved studienævnet for Arkitektur & Design.

## **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.**

### **Reflections on teaching within architecture and engineering**

The built environment and the architectural realm is by default a complex matter which involves multiple parameters and considerations as well as involvement of knowledge from several subject fields and academic disciplines. Learning how to create aesthetic, well-functioning, buildable and efficient construction for its specific user(s) is similarly a complicated task, which requires specific knowledge and skills, as well as a creative ability to develop new solutions adapted alternating frames and conditions. Hence, it is important that we via teaching and supervision ensure that the students; 1) acquire adequate basic knowledge about the architectural and engineering field; 2) build a methodical understanding and approach that enables them to collect, process and sort new knowledge on their own and; 3) obtain good competence within interdisciplinary teamwork. The Aalborg model for "problem based learning" (PBL), which is applied as the overall pedagogical model at Aalborg University, provides the overall frame for this. Additionally, the Integrated Design Process (IDP) developed by Professor Mary-Ann Knudstrup<sup>1</sup> has its roots in the Aalborg model for PBL which is clearly expressed in the five phases; Problem, Analysis, Sketching, Synthesis and Presentation. Due to my educational background at Aalborg University I am "brought up" with the PBL model and the IDP as the overall foundation of project development. Furthermore, I have been teaching and supervised students on the basis of the PBL model through the last 8 years. From students on 1<sup>st</sup> semester Bachelor level, who make their first acquaintance of the PBL method, to master degree students who are familiar with the PBL method and design zero energy buildings on the basis of an advanced use of the IDP. The built environment is constantly evolving; we face increased demands on energy performance and indoor environment, and continuously new technologies, new materials, products and building elements are being developed. This challenges constantly the way we build. When the framework of the profession evolves, it is vital that we as an educational institution keep up with it, and ensures that our graduates have the necessary skills when they are sent out into the labor market after graduation. First of all, students must learn to obtain state-of-the-art knowledge and second, it is essential that our teaching reflect the development the profession undergoes, so that students possess the latest knowledge in the field, when they graduate. Research-based education is crucial in this respect. My research in design of zero-energy buildings<sup>2</sup> and material aesthetics<sup>3</sup> are included in my teaching through specific lectures and workshops (see Teaching CV) and as the basis of my supervision (at different levels through the 1st and 5th semester bachelor level and 1st and 2nd semester master level).

<sup>1</sup> Knudstrup M-A. The integrated design process in PBL. In: Kolmos A, Fink FK, Krogh L, editors. The Aalborg PBL Model. Denmark: Aalborg University Press; 2004. pp. 221-234.

<sup>2</sup> Bejder, AK, Knudstrup, M-A, Jensen, RL & Katic, I 2014, Zero Energy Buildings – Design Principles and Built Examples: for Detached Houses. SBI forlag.

<sup>3</sup> Bejder, AK 2012, Aesthetic Qualities of Cross Laminated Timber. Ph.d.-afhandling, Department of Civil Engineering, Aalborg University, Aalborg. DCE Thesis, nr. 35

## **8. Andet.**

Skriv dit svar her...