

## Undervisningsportfolio

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

I have been teaching since I started doing my PhD in 2009. Below is a list of completed and ongoing teaching activities. Due to maternity leaves, I did not have any teaching activities in the Fall 2013 and in the Fall 2015 and Spring 2016.

Courses running annually:

Lecturer in the course "Partielle Differentialligninger, Sandsynlighedsregning og Statistik" (Partial Differential Equation, Probability Theory and Statistics), 4th semester of the BSc program in Civil Engineering, Aalborg University (since 2013).

Lecturer in the course "Videnskabsteori og metoder indenfor Byggeri og anlæg" (Theory of Science and Modelling within Civil Engineering), 1st semester of the BSc program in Civil Engineering, Aalborg University, (since 2014).

Lecturer in the course "Renewable Energy Structures: Wind Turbines and Wave Energy Devices", 3rd semester of the MSc program in Civil Engineering, Aalborg University (since 2012).

Lecturer in the course "Maintenance Management", 2th semester of the Cand.tech. program in Risk and Safety Management, Aalborg University Esbjerg (since 2018).

Other courses:

Lecturer in the PhD course "JCSS Advanced Course on Systems Risk Modelling and Analysis in Engineering Decision Making", Aalborg University (2018).

Lecturer at PhD course: "Reliability and risk analysis of wind turbines" (since 2014).

Lecturer in the course "Risk and Reliability", 2nd semester of the MSc program in Civil Engineering, Aalborg University (2010, 2013).

Lecturer at NORCOWE PhD Summer School on the topic "Operation and Maintenance for Offshore Wind Turbines" (2012).

Lecturer in the course "Statistik og sandsynlighedsregning" (Statistics and Probability Theory), 3rd semester of the BSc program in Civil Engineering, Aalborg University (2009-2010).

Lecturer in the course "Differentialligninger og numeriske metoder" (Differential Equations and Numerical Methods), 4th semester of the BSc program in Civil Engineering, Aalborg University (2010).

Teaching assistant at "Concrete Workshop", 1st semester of the BSc program in Civil Engineering (2009-2011).

Supervision:

I have been supervisor for more than 40 student projects since I started on the 4th semester of the MSc program in the Spring 2009. Most supervision activities have been on the first study year (1st and 2nd semester of the BSc program), where the students are first introduced to Problem-based Learning (PBL) and for Master thesis projects on the MSc program in Structural and Civil Engineering.

Examiner:

Examiner on various projects and in courses on "Wind loads on structures", 3rd semester of the MSc program in Structural and Civil Engineering, "Risk and Reliability" 2nd semester of the MSc program in Structural and Civil Engineering, "Concrete technology" 5th semester of the BSc program in Civil Engineering.

Appointed as external examiner for Bachelor of Science (BSc) and Master of Science (MSc) in Engineering programmes and master programmes by the Danish Agency for Higher Education and Science (2022).

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

Course coordinator for the course "Maintenance Management", 2th semester of the Cand.tech. program in Risk and Safety Management, Aalborg University Esbjerg from the Fall 2018 and onwards.

Course coordinator for the course "Partial Differential Equation, Probability Theory and Statistics", 4th semester of the BSc program in Civil Engineering, Aalborg University from 2015 and onwards.

Course coordinator for half the course "Renewable Energy Structures: Wind Turbines and Wave Energy Devices", 3rd semester of the MSc program in Civil Engineering, Aalborg University from the Fall 2017 and onwards.

Participated in the revision of the study curriculum for the BSc and MSc program within Civil Engineering.

Semester coordinator for the 3rd and 4th semester of the MSc program in Structural and Civil Engineering, Aalborg University from the Fall 2019 and onwards.

Technical assessor of applicants for the MSc program within Structural and Civil Engineering from Fall 2019 and onwards.

Responsible for teaching registration for the MSc program within Structural and Civil Engineering from 2021 and onwards.

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

In 2014, I completed the University Teacher Education for Assistant Professors (Adjunktpædagogikum) at Aalborg University. Below is the description of pedagogic qualifications, as stated in the Pedagogic Evaluation Statement:

#### **Description of pedagogic qualifications**

JSN's teaching is characterised by thorough consideration and forethought. In the teaching, the objectives are clearly formulated both for the overall term of the course and for the individual classes. JSN's lectures are well constructed and she is able to reach the students by presenting complicated topics in various ways: informal using everyday examples, formal using technical language, and through numerical examples.

The project supervision is similarly characterised by JSN's insight into the subject matter and ability to involve the students in establishing clear objectives, and she appears inspiring in the project supervision by constructively formulating questions and helping the students with the formulation of various solutions to the problems they present. She is well prepared for the supervision and allows ample time for supervision.

#### **Summarized Evaluation**

JSN's pedagogic strengths lie in the well considered planning and structuring of the subject matter materials. During the course, she has worked very deliberately with shifting between individual teaching approaches and in addition, she has developed the skill of pedagogic theoretical reflection over the teaching, as well as the ability to establish realistic objectives for limited teaching experimentation. JSN has completed the course at very satisfactory level.

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

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

Main responsible for development the outline and and half the lectures for the course "Maintenance Management", 2th semester of the Cand.tech. program in Risk and Safety Management, Aalborg University Esbjerg in the Fall 2018.

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

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### **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.**

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### **8. Andet.**

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