

Undervisningsportfolio

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Teaching CV

Pedagogical view

I am convinced that learning is largely based on the student's motivation for learning. The motivation have a direct impact on the effort that is put in the projects and studies, both in terms of quantity and in terms of the level of concentration for the individual project. Therefore, motivating the students is one of the most important tasks as a teacher and in particular as a supervisor. Not necessarily motivating them to want to learn, but motivate by putting things in perspective, making things exciting and generally facilitating a safe educational environment. By establishing a safe environment where all students feel safe and dare to ask the "stupid" questions, we can create an environment that everyone wants to be a part of. This will contribute to an environment where all students contribute to mutual learning of the entire class. In other words, it is important that everybody in the educational environment contributes and is an active part of the teaching and supervision. In this way, motivation for learning increases automatically. In terms of projects, I believe it is motivating for students to see that their work can contribute to the society. Thereby, it becomes much more motivating than if it is just a matter of finishing the education and getting the degree.

Teaching experience

- 2015, 2016, 2017, 2018, 2019 Prestressed concrete – Design and analysis of prestressed concrete structures. New course at SDU from 2015. Evaluation form: Oral examination (based on written reports). 5 ECTS. Level: MSc.
- 2015, 2016, 2017, 2018 Concrete structures – Advanced methods in structural concrete. Evaluation form: Written (until 2016), Oral (from 2017). 5 ECTS. Level: MSc.
- 2014 - 2015 Limit analysis and concrete plasticity (for international students). Evaluation form: Oral. 5 ECTS. Level: BSc.
- 2012 Concrete Structures - 3 of the 12 lectures. Evaluation form: Written. 5 ECTS. Level: MSc.

Censor experience

- 2019 2 Theses (4 students) at Technical University of Denmark (DTU). Evaluation form: Thesis + oral. 30-35 ECTS. Level: MSc.
- 2018 6 Theses (9 students) at Technical University of Denmark (DTU). Evaluation form: Thesis + oral. 30-35 ECTS. Level: MSc.
- 2014, 2015, 2016, 2017, 2018 Theory of plasticity. Evaluation form: Oral. 5 ECTS. Level: BSc.
- 2014 Limit analysis and concrete plasticity - project course. Evaluation form: Oral on the basis of a written report. 5 ECTS. Level: BSc.

Supervising experience

Supervision of
Master's Theses

- 2019 Title: "Experimental investigation on the shear capacity of prestressed concrete beams". 3 Students.
- 2019 Title: "Design of Prestressed Concrete Shell Structures". 2 Students.
- 2019 Title: "Shear failure in RC slabs". 3 Students.
- 2019 Title: "Concrete Compressive Strength in Existing Structures – An Experimental and Statistical Investigation". 3 Students.
- 2019 Title: "Shear Capacity of Non-shear Reinforced Concrete Beams - A Theoretical Study based on Non-Linear Finite Element Analysis". 1 Student.
- 2018 Title: "Shear Behaviour of Reinforced Concrete Beams Without Shear Reinforcement". 1 Student.

2018	Title: "Investigation on the Shear Capacity of Prestressed Concrete Beams". 2 Students.
2017	Title: "Limit state design of prestressed concrete structures". 2 Students.
2016	Title: "Experimental and Theoretical Analysis of a New Design for Connection between Precast Concrete Bridge Decks". 2 Students.
2016	Title: "Experimental Study on the Correlation of Concrete Strength found from different Methods". 2 Students.
2015	Title: "Shear Strength of Wire Loop Connections between perpendicular wall elements" (In Danish: "Forskydningsstyrke af wiresløjjesamlinger mellem tværstående vægelementer"). 2 Students.
2015	Title: "Strain Measurements via ARAMIS Measurements on Wire Box Connections". 1 Student.
2012	Title: "Strength of construction joints between reinforced concrete slabs subjected to combined bending and tension". 3 Students.
2012	Title: "Robustness – of precast concrete structures" (In Danish: Robusthed – af præfabrikerede betonkonstruktioner). 1 Student.
2011	Title: "Construction joints between prefabricated bridge decks - Experiment, analysis and design development" (In Danish: Konstruktionssamlinger mellem præfabrikerede brodæk - Test, analyse og designudvikling). 3 Students.
Supervision of Master's "pre-thesis"	.
2019	Title: "Theoretical Study on the Design of Concrete Shell Structures". 2 Students.
2019	Title: "Design Guide for RC Frame Corners". 3 Students.
2019	Title: "Theoretical study on the shear capacity of prestressed concrete beams". 2 Students.
2019	Title: "Practical application of statistical methods". 2 Students.
2019	Title: "Theoretical study on non-linear Finite Element Analysis of reinforced concrete structures". 1 Student.
2018	Title: "The Effect of Curtailed Reinforcement in Reinforced Concrete Beams without Shear Reinforcement". 1 Student.
2018	Title: "Investigation on the Shear Capacity of Prestressed Concrete Beams". 2 Students.
2017	Title: "Minimum reinforcement degree and cracks in reinforced concrete beams" (In Danish: "Minimumsarmering og revner I armerede betonbjælker"). 2 Students.
2016	Title: "An Experimental Evaluation of RC Beams with Curtailed Reinforcement". 2 Students.
2016	Title: "Experimental and Theoretical Analysis of a New Design for Connection between Precast Concrete Bridge Decks - prethesis". 2 Students.
2015	Title: "Wireloop connections" (In Danish: "Wiresløjjesamlinger"). 2 Students.
2012	Title: "Theoretical investigation in the strength of construction joints between reinforced concrete slabs". 3 Students.
Supervision of bachelor graduation projects	.
2018	Title: "Experimental Study on the Compressive Strength of Concrete in Existing Structures". 2 Students.
2018	Title: "Design of Steel Fibre Reinforced Concrete Structures". 2 Students.
2018	Title: "Shear Capacity of Continuous Concrete Beams without Shear Reinforcement". 3 Students.
2017	Title: "Serviceability limit state design of looped wire rope connections". 2 Students.
2017	Title: "A study of concrete element connections subjected to pure tension". 3 Students.
2016	Title: "Are the current methods to calculate the shear capacity for RC beams safe?". 1 Student.
2015	Title: "Experimental Study of the Shear Strength of Wire Loop Connections between Precast Concrete Elements". 2 Students.
2015	Title: "The Influence of Curtailed Reinforcement on the Strength of RC Beams". 2 Students.
2014	Title: "Shear strength of RC Elements with Truncated Reinforcement". 3 Students.
Supervision of other projects	.
2016	Supervisor for a student doing a 5 ECTS individual student activity (presented in report form) on the subject: "Examining anisotropic properties in concrete over time".
2015	Supervisor for a student doing a 5 ECTS individual student activity (presented in report form) on the subject: "The influence of the reinforcement design on the shear strength of concrete beams without stirrups"

Formal pedagogical training

2015 - 2016 University Lecturer Training Programme, University of Southern Denmark

Short Teaching Courses

2018	"Effective feedback to enhance students' learning", University of Southern Denmark
2016	Presence and impact in teaching - Be aware of your body language, at University of Southern Denmark
2015	"High Performance Teams", at "Folkeuniversitetet" in Odense
2015	"Teaching Portfolio – Getting started", at University of Southern Denmark
2015	"Setting up your course in Blackboard/e-learn.sdu.dk", at University of Southern Denmark

Other relevant activities related to teaching and teaching development

2015 - present	Member of the study board for the Master of Science in Structural Engineering.
2015 - present	Responsible for chairing the meeting with an Educational advisory board with participants from the industry. The meeting is regarding the M.Sc. programme in structural Engineering. Since 2016, the meeting is held together with the advisory board for the civil engineering education.