

# Master's thesis seminar in Building Technology 7-2022 12th December 2022

## Chairmen

Camilla Vornanen-Winqvist will act as the chairman for Nguyen-Ky Si and Ailio Matias

Petri Uusitalo will act as the chairman for Oli Aman and Koljonen Atte

Jouni Punkki will act as the chairman for Latif Haseeb and Akbar Numan

	Sukunimi, Etunimi/Last name, First name	Diplomityön aihe/Title of thesis	Valvoja/Supervisor	Ohjaaja/Instructor	Lyhyt kuvaus diplomityöstä/Short description of the thesis
9:00- 9:20	Nguyen-Ky Si	Thermal Comfort and the Adequacy of Demand-controlled Ventilation in Indoor Sports Facilities	Prof. Heidi Salonen	Camilla Vornanen-Winqvist (Aalto University), Jarek Kurnitski (Aalto University, Tallinn University of Technology)	Conventional, standardised thermal comfort models are not capable of assessing and predicting the comfort in sports environment. A simulation study of the Latokartano sports hall using FIALA thermal comfort model has shown that demand-controlled ventilation with lower temperature setpoints 3 degrees helps save up to 18% of heating energy without affecting the thermal comfort of the hall users. Technical and operational challenges and improvement suggestions of DCV were also discussed.
9:20- 9:40	Matias Ailio	CLT-betoniliittorakennevälipohjien kosteustekninen toimivuus	Prof. Heidi Salonen	Emil Jansson, Ramboll	
9:40- 10:00	Oli Aman	Automatic Detailing of Prefabricated Concrete Elements	Prof. Olli Seppänen	Abou Ibrahim Hisham, Aalto University	
10:00- 10:20	Koljonen, Atte	Pohjoismaisten rakennusalan yritysten strategiset valinnat ja taloudellinen menestys	Prof. Antti Peltokorpi	Petri Uusitalo	
10:20- 10:40	Latif, Haseeb	Ground-penetrating radar (GPR) for non-destructive characterization of reinforced concrete structures	Prof. Jouni Punkki	Fahim AL Neshawy	Using GPR evaluation and characterization of Reinforced Concrete Structures

10:40-11:00	Akbar, Numan	Segregation Sensitivity of Concrete	Prof. Jouni Punkki	Hassan Ahmed, Aalto University	Segregation Sensitivity of different slump class of Concrete
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