



24th June 2019
Prague 6
Czech Republic

Tutor's review

The facts:

Yuliia Khmurovska started her PhD studies at the Czech Technical University in Prague in October 2015.

In the beginning of her PhD studies, she worked with polymer concrete and the experimental investigation of its bond degradation under thermal cyclic loading as well as numerical investigation using nonlinear FEM, RBSM, Lagrange multiplier method and Mazars' Damage model by developing her own in-house MATLAB codes.

The obligatory subjects of her individual study plan were taken and concluded within less than two years of her PhD studies. In September 2017, she passed the state doctoral exam. Since then she could fully focus only on her research work. She used all the obtained knowledge in her PhD thesis which is devoted to experimental and numerical investigation of the effect of ionizing radiation on concrete properties and its structural performance.

The amount of her research work is well documented in her publications, when three her papers were published by international impacted and refereed journals. Five of her twenty conference papers, which were written in English or Russian, are indexed in WoS or Scopus. She also took part in development of one functional design.

Besides her PhD studies, she actively participated in teaching activities of the Department of Concrete and Masonry Structures, where she led the seminars of two courses in English (a bachelor course Fundamentals of Structural Design and a master course Concrete Structures 4) and one course in Czech (bachelor course Betonové a Zděné Konstrukce V). Also, she gave several lectures in those three courses.

Personal comments:

It can be concluded that Yuliia Khmurovska, through her active approach, gained the maximum of what the Czech Technical University in Prague provides to its PhD students, which is good research and teaching training. I hope that the knowledge and experience gained here will help her to become a successful university professor.

Yuliia, thank you for your hard work.

Petr Štemberk