



ALAR
Training Center



ONLINE SUMMER SCHOOL

CIVIL ENGINEERING

July 19 – 30, 2021

**LOOKING FOR A COURSE FOR TRUE CIVIL
ENGINEERS? JOIN THIS SUMMER SCHOOL!**

ECTS credits: 4.0



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COURSE DESCRIPTION

Building information modeling

The course introduces the basics of the BIM (Building Information Modeling), its conception, available software and ways to use this technology in real work process.

This course discusses how BIM provides contractors with the benefit of improved visualization of a construction project through the use of a 3D virtual model, establish a base of knowledge of BIM terminology and look at the benefits of BIM and case studies showing implementation before encouraging participants to study how they could implement BIM. Students do not only acquire a profound professional and methodical education but also the communication skills and cross-cultural experience necessary for future international management posts. The BIM program contains not only general BIM conception, but also its problems, solutions, ways to use and comparison of main software available today, and real experience of using Autodesk Revit - world-leading BIM platform, allowing create and manage projects faster and more economically. The course is based on a real experience of BIM implementation in leading Russian's project and construction companies, BIM software teaching. The lectures cover the essential features BIM modeling and leading software.



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Energy efficiency of the buildings

The course introduces the concept of energy saving in the world, formation the energy efficiency in Russia and examples of its application in civil engineering. At the beginning students are given brief introduction to the Energy consumption in the residential sector, thermal loss of buildings, the concept of heat and moisture transfer in enclosing structures, types and classification of environmentally friendly building materials.

Students will know how to determine the energy efficiency classes of buildings, basic indicators of energy consumption, they will consider economical and environmental aspects in the field of energy saving, the major green building rating systems LEED and BREAM.

The course is held in the form of workshop, where students will consider real projects of new and existing buildings, different ways of improving the energy efficiency of the building, using practical calculations and BIM (Building Information Modeling) technology.

Cost:

US\$421 - includes registration, teaching costs, 4.0 ECTS credits Certificate, additional Russian Language virtual course by ALAR Training Center (33h) + Certificate

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Program dates: July 19 – 30, 2021

Registration deadline: 28 June 2021

Entrance requirements

- Good command of English. All classes and extracurricular activities are conducted in English. Knowledge of the Russian language is not required.
- Applicants are expected to have at least 1 year of University level studies.

Professors and lecturers

- Aleksandr Vysotskiy, CEO of Vysotskiy consulting (TOP-20 BIM companies in Russia), expert in BIM
- Olga Korshunova, leading specialist of Vysotskiy consulting, lecturer in BIM;
- Daria Zaborova, PhD, leading lecturer of SPbPU

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