

## INTERRELATIONSHIP OF EDUCATIONAL COMPONENTS FOR THE FORMATION OF STUDENT SCIENTIFIC ACTIVITY

**KRANTOVSKA O.M., KSONSHKEVYCH L.M.**

*Odesa State Academy of Civil Engineering and Architecture, Odesa, Ukraine*

Scientific research work is an integral part of the educational process of the Odesa State Academy of Civil Engineering and Architecture. A future master's degree student should form his scientific worldview, master the methods of scientific research and achieve high professionalism.

The participation of students in scientific research activities is the most effective means of acquiring the skills of independent scientific research. Active involvement in scientific research is necessary for successful work, which also affects the quality of the educational process in the preparation of future specialists - master's and postgraduate students.

Several forms of involvement in research work can be distinguished.

Firstly, these are abstracts, reports at conferences or symposia, lectures, defense of course, calculation-graphic and master's theses, participation in production practices and involvement in scientific research work commissioned by construction organizations.

Secondly, it is participation in scientific activities of departments, in laboratories during experimental research, participation in Olympiads and competitions of student scientific works.

After completing the "Resistance of Materials" course, the student masters the methods of experimental study of the properties of materials, receives the basics of calculations for strength, deformability, stability, stiffness, which is an integral part of the formation of a future specialist of any educational program.

So, for example, A. Choban (Urban construction and economy), the winner of the 1st round of the All-Ukrainian competition for student scientific works (order No. 78/od dated 17.05.2022) - supervisor of the scientific work Ksonshkevych L.M., applied the knowledge gained in researching and evaluating the technical condition of the building located in historical part of the city of Odessa.

During the inspection, it was established that there were defects and damage in structures and elements in the premises of the building. At the time of the survey, the object, according to the provisions of building regulations, belongs to the category of technical condition "3" - "not suitable for normal operation". The main reasons for the condition of the building were uneven deformations of the base of the foundations and natural physical wear and tear of the materials and structures of the building.