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“YOSH OLIMLAR, MAGISTR VA IQTIDORLI TALABALARNING  
ILMIY FAOLIYATINI OSHIRISHDA ULARGA QARATILGAN  
KREATIV G'OYALAR, YECHIM VA TAKLIFLAR”

MAYZUSIDAGI RESPUBLIKA ILMIY-ONLAYN  
**KONFERENSIYASI**





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ILMIY FAOLIYATINI OSHIRISHDA ULARGA QARATILGAN  
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**MATERIALLARI TO‘PLAMI  
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O‘ZBEKISTON 2021



Ushbu to‘plamda “Yosh olimlar, magistr va iqtidorli talabalarning ilmiy faoliyatini oshirishda ularga qaratilgan kreativ g‘oyalar, yechim va takliflar” mavzusidagi 3-sonli Respublika ilmiy-amaliy on-line konferensiyasiga kelib tushgan tezis va maqolalar o‘rin olgan.

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**Eslatma! Konferensiya materiallari to‘plamiga kiritilgan maqolalardagi raqamlar, ma‘lumotlar haqqoniyligiga va keltirilgan iqtiboslar to‘g‘riligiga mualliflar shaxsan javobgardirlar.**



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## METHODOLOGY FOR THE USE OF INFORMATION AND COMMUNICATION TECHNOLOGIES OF EDUCATION IN EDUCATIONAL INSTITUTIONS OF VOCATIONAL EDUCATION

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Currently, a very important factor in human life is higher education. “Maintaining a high level of education is the main factor in socio-economic progress and the most important condition for the sustainable development of any state, and this requires the improvement of the entire system of higher education”. According to the World Bank's Learning for All, investment in people's knowledge and skills promotes the development of the world's population [1]. Information and communication technologies (ICT) have had a huge impact on our lives. It has attracted significant attention from communities around the world. Thus, the use of ICT has become a mandatory fact in modern society. Many people and countries are now paying attention to understanding ICT and learning the basic methods and concepts of ICT [2]. Currently, many ICTs are used in educational institutions, universities, and higher education institutions to teach engineering students, for example, the Internet, computer simulation software, etc. This question made it easier for students to access additional information through digital mobile tools and interact with additional information. In addition, students actively support the use of such technologies in educational programs [3]. These capabilities help students learn in and out of the classroom by developing more appropriate learning materials. The concept of a computer experiment was discussed and developed. The use of computer graphics has been illustrated with examples from current training materials [4]. Another new application of ICT in engineering education is e-mentoring in educational programs and engineering students at universities. This opportunity was provided employing ICT since it does not depend on geographic location and time constraints. [5]. ICT provides some capabilities, such as connecting to the Internet over a broadband connection, that can help you access educational resources from anywhere. For example, open-source software provides additional support to engineering students over digital networks such as the Internet. [6] investigated the impact of ICT on the education of engineering students. In the educational process, they used ICT, for example, video conferencing. They showed that ICT is a powerful tool for learning processes. They completed their assessment using a questionnaire to explore the use of ICTs in engineering education. González et al. [7] studied the use of ICTs for teaching engineering students in Spain. They showed this to be an important effect. They showed that engineering students feel more satisfied when new ICTs are introduced



into the curriculum of courses. This study highlighted the positive impact of ICT on the learning of graduate students. They showed that ICT can improve the learning of engineering students and increase their responsibility and motivation in the learning process.

To achieve the goals of engineering education, engineers need to understand a nature that goes beyond simple theory - knowledge that has traditionally been gleaned from the literature shows that there is very little or little research on the topic. Research on the use of ICTs in teaching engineering students continues to require more attention.

Ulugov B. D et al. [3] investigated current trends and technologies in engineering education. They indicated that trend projections and other different perspectives on the latest technology use situation were based on previous projections and experiences from distance, online and face-to-face engineering education. The use of technology in engineering education has increased in the current century. This state-of-the-art technology enables a new learning experience everywhere and in different learning models. These modern technologies have become very common in recent years.

This study aimed to explore the importance of ICTs in education for improving teaching and learning for students. Nevertheless, this study conducted a statistical search for the value of ICT for the educational life of students of the Termez branch of the Tashkent State Technical University. This study involved 67 students of the Termez branch of the Tashkent State Technical University. The results showed that the use of ICT tools by students makes their work more flexible. They also agreed that with the use of ICTs they will be able to do their jobs faster and better. The findings of the study showed that ICT students face fewer problems than students in other specialties. The study showed that teachers' skills in using ICT were at an average level, and there were also significant differences in teachers' skills in using ICT depending on demographic factors. In addition, there is a significant relationship between ICT skills and ICT integration in the classroom. Several factors related to teachers, such as their age, gender, teaching experience, except for educational level, did not affect the integration of ICT in the classroom.

Traditional professors understood that students could not get the basics of engineering design through software, but younger professors found that they had some difficulty experimenting with the process. The students were pleased with the new teaching methodology as they found it useful for their future work environment. The advantages and disadvantages of using some ICT tools during the first year of the technical drawing course were also explored. The results of the study showed the relationship between ICT and engineering education. To draw attention to these facts, it was proposed to expand the engineering education curriculum to include some courses such as Computer-Aided Design with Modeling Software, Introduction to Programming Languages, Autodesk Inventor, AutoCAD, Solid Works, Kompas 3D,



Matlab, MathCAD and an introduction to finite element modeling software [11]. The results showed that mechanical students had a positive attitude towards ICT.

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