V МІЖНАРОДНА НАУКОВО-МЕТОДИЧНА КОНФЕРЕНЦІЯ АКТУАЛЬНІ ПИТАННЯ ОРГАНІЗАЦІЇ НАВЧАННЯ ІНОЗЕМНИХ СТУДЕНТІВ В УКРАЇНІ ТЕРНОПІЛЬ 14-16 жовтня 2020 р

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MODERN TRENDS AND NEEDS IN EDUCATION SYSTEM

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MODERN TRENDS AND NEEDS IN EDUCATION SYSTEM

The learning environment is more dynamic than ever before, and as a result, today's learners are very different from those that our educational system was designed for. Today modern education is mainly online. The online learning favors independent learning methods. Online learners must be self-directed towards achieving their academic goals and should be self-motivated. With the advancement in technology, classrooms are being remodeled and redefined in a number of ways to fit the evolving needs of modern digital learners. With the rise of remote learning, many higher education institutions are substituting traditional resources with educational technologies in an attempt to keep up with their digital learning population [1].

Education must be improved to meet the requirements of today's technical world. It should aim in providing real life skills, encourage innovation and support in improving student talents. Significant education is vital to the welfare of any society, but it is in particular crucial to the survival and growth of developing countries with an increasing number of young minds.

Opportunity Education helps in improving the lives of people at different stages. The main modern requirements of education is uses information technology in the education, new methods in teaching and training.

Technology is an integral part of almost all areas of life, and is developing at an increasingly rapid pace. It is very visible in, for example, telecommunication, transport and medicine. But increasingly, technology is paving its path in education industry too. Possessing technological knowledge is really the need of the hour. So, technical awareness is essential for the students and the teachers as well.

Technological devices help teachers and students both in their teaching learning process in order to understand the concept in a better way. Here is a list of reasons why educational institutions should implement technology in the education students.

Technology helps students open up more as they get even more chance to interact with fellow students not limited to the classroom but around the globe.

Technology if used correctly will help prepare students for their future careers, which will certainly include the use of wireless technology.

To diversify learning styles technology should be incorporated into classroom teaching. Technology helps the teachers prepare students for the real world

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environment. As our nation becomes increasingly more technology-dependent, it becomes even more necessary that to be successful citizens, students must learn to be tech-savvy.

Nowadays children love technology. So they are sure to be interested in learning if they can use the tools they love. Integrating technology in education everyday helps students stay engaged. Learning through eBooks is a real example to this. Students are excited about being able to use technology and therefore are more enthusiastic to learn. Student can have access to digital textbooks that are constantly updated and often more vivid, helpful, creative, and a lot cheaper than those old heavy books. With ready availability of other mobile devices in the classroom, students are able to access the most up-to-date and relevant information quicker and easier than ever before.

The following are some of the major trends in tech adoption in education:

- 1. Coding as a literacy. It's becoming more relevant for students to interact with technology, and so they can control programs, devices, and apps they interact with.
- 2. Collaborative learning. Collaborative learning models prove to be more and more successful. Collaboration mirrors how humans solve problems, and digital tools help students connect with each other.
- 3. Supporting students as creators. Learners are starting to explore subjects via active creation rather than passive consumption of content. Fabrication laboratories, maker spaces, intuitive creative suites of desktop programs, media centers, and applications provide hands-on opportunities for students to channel their creativity into solutions, inventions, and expressions.
- 4. Rethinking how schools work. Adaptive learning tools, as well as open educational courses, are personalizing as well as democratizing the way students learn.
- 5. Redesigning learning spaces. Flexible learning spaces enable students to create as many groups as needed for lessons. Network-enabled classrooms enable students to connect and collaborate in familiar mobile and social modalities, which are part of their day-to-day digital habits outside of the classroom.
- 6. Deeper learning approaches social media platforms such as Twitter, Snapchat, and WeChat keep students connected to local and global issues. When folded into pedagogy and combined with content creation tools such as WeVideo and YouTube, the same outlets can be used to contribute solutions or insights in meaningful ways [2].

So, the conventional passive learning pattern is broken. Now the teachers are technically trained in advance and hence with technology in the classroom the teacher becomes the encourager, adviser, and coach.

Technology helps students take more control over their own learning. Dependence on others gets minimized for students as compared to before. They learn how to make their own decisions and actually think for themselves.

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IMPROVEMENT OF THE ENGINEERING EDUCATION ACCORDING TO THE GLOBAL NEEDS

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IMPROVEMENT OF THE ENGINEERING EDUCATION ACCORDING TO THE GLOBAL NEEDS

Global processes of technological expansion and intercultural diffusion are the main indicators of the development level among nations and societies. At the same time, they are the most important steps towards worldwide integration into scientific and research interspace. The problems of Ukrainian education were discussed by academia in 2012-2013 and embodied in the Law [1]. The reform concept is rooted in the ideas of comprehensive university autonomy and internationalization. Every Ukrainian University follows its Development Strategy and, as a part of it [2].

Taking into account the actuality of this aspect for Ukraine it is necessary to improve the engineering education of international students according to the needs of European modern society, enabling universities approach to change in the global labor market and educational space to respond quickly to the needs of employers; give students profile's idea of different jobs in industry and construction to provide future employment. So it is necessary focus on aims:

- to promote the modernization and internationalization of Higher Education Institutions;
- to improve skills of Technical Higher Education staff and the quality of teaching;
 - to modernize the curricula:
- to establish open multimedia platform for expanding the knowledge and educational practices;
 - to introduce training materials for lifelong technical learning;
- to increase the employment potential and career prospects of students through practice-oriented professional education.