

Секція 9. ГУМАНІТАРНІ АСПЕКТИ ФУНКЦІОНУВАННЯ ВИЩОЇ ШКОЛИ В УМОВАХ РОСІЙСЬКОЇ АГРЕСІЇ (2014-2022): ТЕОРІЯ І ПРАКТИКА

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FORMATION OF SOFT SKILLS IN EDUCATIONAL PROGRAMS OF TECHNICAL SPECIALTIES

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Abstract. The necessity of acquiring "soft skills" by a modern engineer in the process of studying at the university has been substantiated. The influence of humanitarian disciplines on this process is considered. The basic "soft skills" necessary for the work of an engineer are indicated and specified.

Keywords: soft skills; communication; intellectual curiosity; openness to feedback; creativity.

The humanitarian component of educational programs of technical specialties performs many functions. Traditionally, researchers, considering this issue, emphasize its role in educating spiritually rich, nationally conscious, highly moral specialists whose general education level should meet the growing demands of society. It is determined that humanitarian disciplines should attract students to the achievements of national and world culture, form in them a national outlook and corresponding moral principles and values, aesthetic tastes and preferences.

A less researched topic, but a topic that is gaining more and more popularity in recent years, is the influence of humanitarian disciplines on the formation of so-called "soft skills".

In order to have a successful career, a modern engineer needs, in addition to proper education and relevant technical experience (so-called "hard skills"), to be able to demonstrate many "soft skills" – the key skills needed for effective teamwork [1].

Why are "soft skills" so important for a modern engineer? No matter how big or small the company you work for, you will never work in a vacuum. Everything he has to do is always part of a larger system. He needs to be able to communicate and cooperate with other engineers working on different parts of the same project, as well as interact with employees of other services, departments, sectors of the enterprise [2].

Skillful use of "soft skills" by team members creates comfortable working conditions in the team. A direct consequence of this is the achievement of high efficiency of its work and the creation of an effective final product.

All "soft skills" that a modern engineer will need can be grouped into several groups [3].

The first and most important group can be characterized as **COMMUNICATION**.

As with any job, communication is the key to your success as an engineer. Hiring managers are looking for candidates who can communicate their ideas clearly and succinctly.

Not only is it important to communicate with fellow engineers, but it's also important to be

able to work with non-professionals, as there will surely be times when you need to collaborate with people from other departments, or you need to explain to the customer why something cannot be done the way they asked, and you need to be able to make it as simple as possible.

The "soft skills" related to communication include: Active listening; Public speaking and presentation; Writing skills; Verbal and non-verbal communication; Negotiation; Persuasion; Leadership; Teamwork; Empathy; Patience; Diplomacy.

The second group of engineering "soft skills" is **INTELLECTUAL CURIOSITY**.

Hiring managers are looking for people who have a habit of constant intellectual self-improvement. Technologies are constantly changing. What you learned a year ago may be outdated now. You should have an inherent desire for constant self-education and it should be a continuous process. An engineer must constantly think about what he is working on. Every employer want to see engineers asking, "Why are we doing something a certain way?", "Why are we doing it at all? In what order?" etc.

The "soft skills" related to intellectual curiosity include: Problem-solving; Creativity; Critical thinking; Innovation; Troubleshooting; Brainstorming; Research.

The third group of engineering "soft skills" is **OPENNESS TO FEEDBACK**.

In the process of work, it is important not only to accept feedback (both positive and negative), but also to apply it accordingly. Openness to feedback is an important quality that hiring managers look for when interviewing for engineering positions.

The "soft skills" associated with openness to feedback include: Adaptability; Collaboration; Self-awareness; Resilience; Cooperation; Respectfulness; Flexibility; Managing your emotions; Humility.

These are the "soft skills" that are essential for today's engineer. To a greater or lesser extent, the functions of forming such skills are performed by all humanitarian disciplines of educational programs of technical specialties. However, this does not negate the fact that the formation of "soft skills" to a certain extent should take place during training in all educational components of the educational and professional program.

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ГОЛОВНІ ТРЕНДИ РОЗВИТКУ НАВЧАЛЬНОГО ПРОЦЕСУ У ВИЩІЙ ОСВІТІ

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Анотація. Розглянуті основні тренди розвитку навчального процесу у вищій освіті. Проаналізовані такі тенденції, як впровадження системи штучного інтелекту, цифровізація, дистанційне навчання, використання смартфонів у навчальному процесі, використання медіа-середовищ, візуалізація, використання елементів едьютейнменту, імерсивне навчання.