

Malokhat E. Akhmedova,
Associate Professor;

Inobat N. Mustofoyeva,
Senior lecturer,
Tashkent State Technical University

Internal and External Factors of Technical Universities Students' Professional Thinking

Key words: Vocational training activities, methods, human behavior, pedagogical-psychological mechanism, learning processes, professional thinking, development.

Annotation: the article highlights the importance of internal and external factors in the professional education of technical higher education institutions, the ability of future engineers to develop their professional thinking on the basis of internal and external factors of the development of professional thinking.

Developing social, vocational, pedagogical and psychological skills of students of technical higher education institutions, creating the internal factors such as independent, creative initiative, social responsibility and technical literacy, introduction of consistent and effective methods, by means technical and technological of motivation, by creating a variety of social conditions and psychological opportunities.

At present, special attention is paid to the issue of training of technologists with intellectual potential, professional and socially active engineers in the global technical education system. In the current rapidly evolving technical development, the global community is seen as one of the topical issues in the area of improving the professional training of technical engineers, as well as the development of professional thinking. The main criterion of our technical age is the enhancement of the socio-psychological significance of engineering competences to external factors of the development of professional thinking of engineers. The concerning this the tasks were given in the following decrees: President of the Republic of Uzbekistan, Sh. Mirziyoyev, The fourth direction of the Strategy of Action on Further Development of the Republic of Uzbekistan in 2017 - 2021, adopted by Decree No. PF-4947 of 7 February 2017, "... Improving Technical Education and Strengthening the Fields by Highly-Qualified Staff" is placed (1).

In this regard, in the process of technical higher education institutions, the engineer is a requirement for the development and introduction of the theoretical basis of the educational process, which is influenced by the internal and external factors of professional thinking in the technological process. Thus, taking into account the internal and external factors of vocational training in higher education institutions, in the educational process having sufficient knowledge and skills increases the quality of education.

It is important for the student to adapt his / her knowledge to the educational process by means of professional thinking, professional intelligence, dedication, and quick decision-making in professional work. It is advisable to follow the following specifications in forming students professional thinking: 1. To know the effectiveness of educational methods of teaching

methods, i.e. the generalization of human behavior, pedagogical and psychological features. 2. Three levels of knowledge: a) emotional level (intuition, perception); b) complex levels (memory, fantasy); to explain high level (speech and thought). 3. Using effective communication methods in shaping professional thinking. 4. Have the ability to perceive any professional pedagogical process. 5. Formation of professional knowledge through the attitude of the students. 6. Creating objective goals and objectives through professional knowledge and creative thinking of students (2).

Thus, based on the above mentioned factors, it is necessary to pay attention to the internal and external factors of professional thinking of the students of technical higher education institutions, not to neglect the problems of the educational process, to identify the didactic aspects of the engineering problems and the ways of their solution. At the same time, mediatic literacy and media technical culture play an important role in shaping the student's self-understanding and professional thinking.

Taking into account the President of the Republic of Uzbekistan Sh. M. Mirziyoev's Resolution of 18 July 2017 "On the Complex Measures for the Improvement of the Activity of the Youth Union of Uzbekistan" was adopted by the President of the Republic of Uzbekistan Sh. M. Mirziyoev's Decree No. PF-4947 "On the Strategy for the Further Development of the Republic of Uzbekistan" of 7 February, 2017 and the Decree of the President of the Republic of Uzbekistan of July 5, 2017 "On the Effectiveness of Youth Policy Effectiveness and Support of the Youth Union of Uzbekistan", and the other normative-legal acts, the internal and external factors of professional thinking of students of technical higher education institutions, participation in innovative projects and training investments in technical education is a top priority.

While each student who is engaged in to science can quickly perceive social relations, scientific advancement, the acquisition of information technology, and quickly recognize the news, students often do not understand the scientific basis and direction of the activities. In his own research, he takes a cold look at his commitment to learn technical training tools. The study of technical education based on their psychological teaching technologies is the basis for making important decisions, and it is clear that these technologies are not well developed nowadays. While teaching technology is a key ingredient to stabilizing students' knowledge, living as a person in life, understanding the future development of the world, understanding language and understanding of the world civilization is the result of systematic justification of teaching technologies. The findings of the professional activity of students of technical higher education institutions have shown that at the present time the teaching process is carried out through technology transfer, information communication, mainly limited to computer, lectures, practical exercises (laboratory and seminars) with low-tech learning.

Direct technical interaction with the professional minds of engineers, raising their professional needs to a new level in line with up-to-date requirements, forming new ideas and new outlook is the main objective of a technical higher education institution. In this regard, the changes that are occurring at all levels of the society place new demands on the person of technicians of technical higher education institutions.

Firstly, humanization of technical education processes; Secondly, the "technology" of modern society; thirdly, to encourage creativity and creative students; Fourthly, training of engineers with professional thinking is a requirement of time. So today's society needs engineers, technologists, who can clearly see its content and independently solve technological problems. They need to rely on foreign experience in improving the engineers' professional skills, with an innovative approach to the engineering profession, theoretical and practical knowledge, skills and qualifications needed to meet the requirements of the time.

It is responsible for determining the way of technical development of Uzbekistan, which serves to ensure its own reputation in the world community. Professors and teachers of technical higher education institutions, based on their foreign experience and achievements, make a worthy contribution to the development of the community through the formation of a direct sense of technical education in their pursuit of the educational objectives of their students. The professional thinking of the students and their essence are reflected in the technical education process. Internal and external factors of professional thinking of the students are inherited and dependent on the environment, and it is formed in the family. One of the external factors is the fact that today special attention is paid to education investment. At the same time, in the process of learning, humanity approaches development of a number of systems and mechanisms of professional thinking of students and changes the humanistic personality in society (4).

A student studying in a technical higher education institution faces a challenge when he/she conducts professional and psychological analysis of his / her professional thinking and skills. Often, the technical situation is analyzed instead of professional thinking, which is characterized by high emotional stress. Students demonstrate external factors as a cause of problems in their curriculum (country situation, funding, education loan, guidance, etc.). Therefore, it is important to create a standard of internal and external factors that create a single system by technical higher education institutions.

Theoretical and practical issues of internal and external factors in the development of professional thinking of students through the teaching of pedagogy, psychology, and technical higher education institutions should be justified. In the experience of technical higher education institutions, it is important for potential engineers to develop internal and external factors of professional thinking, to build innovative projects on the basis of their impact, and to form operational tasks in the classroom. It is important to identify technical ideas as a task, and to resolve the process of their decision-making through the development of professional thinking into the core concepts and thinking. In the educational process pedagogue psychologists not only give students theoretical knowledge and scientific conclusions, but also motivate internal and external factors of the development of professional thinking, analyze technical and innovative approaches, as well as develop scientifically motivated and logical thinking and problem solving skills.

References:

1. *The Decree of the President of the Republic of Uzbekistan dated February 7, 2017 "On the Strategy for the Further Development of the Republic of Uzbekistan", N UP-4947. Collection of legislation of the Republic of Uzbekistan. Article 70 of the Constitution of the Republic of Kazakhstan.*
2. *Continuous knowledge of the textile, №6, Nukus, 2017; 96-97*

3. *Continuous education of a teacher, №1, Nukus, 2016; 104-106.*
4. *Kuvandikova GG, Xamrokulova D, Yulchieva DN. Humanistic approach to the process of individualization of learning: European research, No. 1(24), London, 2017; 75.*