SIR Publishers
CENTER FOR INTERNATIONAL SCIENTIFIC PUBLICATIONS
JOURNAL OF MULTIDISCIPLINARY BULLETIN
ISSN(Online): 2984-6722
SJIF Impact Factor |(2023): 5.887|
Volume-7, Issue-1, Published |20-01-2024|

THEORETICAL BASIS OF FORMING STUDENTS' TECHNOLOGICAL COMPETENCES BASED ON INNOVATIVE APPROACHES

https://doi.org/10.5281/zenodo.10578806

B.A. Askarova
Teacher of the Department of Technological Education of Fergana State University.
Fergana, Uzbekistan.

ABSTRACT

In this article, the activation of students' knowledge, skills and abilities, technological competences, the formation of technological potential of students, the application of modern pedagogical technologies to the educational process based on the competence approach, the use of information and communication technologies in the educational process, the development of technological competences it was discussed about raising the level of knowledge and potential of students.

Key words

technological competence, innovative approach, innovation, innovative thinking, innovative activity, innovative market.

АННОТАЦИЯ

В данной статье рассматривается активизация знаний, умений и навыков обучающихся, технологических компетенций, формирование технологического потенциала обучающихся, применение современных педагогических технологий в образовательном процессе на основе компетентностного подхода, использования информационно-коммуникационных технологий. технологии в образовательном процессе, развитие технологических компетенций, говорилось о повышении уровня знаний и потенциала учащихся.

Ключевые слова

технологическая компетентность, инновационный подход, инновация, инновационное мышление, инновационная деятельность, инновационный рынок.

Introduction. The formation of technological competence in students is a continuous process of teaching, education and development aimed at preparing

JOURNAL OF MULTIDISCIPLINARY BULLETIN
ISSN(Online): 2984-6722
SJIF Impact Factor |(2023): 5.887|
Volume-7, Issue-1, Published |20-01-2024|

students for a technological lifestyle, mental and physical work for general well-being, practical and moral-psychological preparation.

The purpose of forming technological competence is to form readiness for honest, creative work in various directions, to strengthen the health of a person, and to help in all-round development.

In order to form the technological competence of students based on an innovative approach, first of all, they should have an understanding of pedagogical innovations. Pedagogical innovation processes have been specially studied by scientists since the end of the 50s of the last century in Western countries, and in the last 10 years in independent Uzbekistan. In recent years, scientists of our country have been conducting scientific research on innovation, innovative thinking, innovative activity, innovative market, and pedagogical innovations.

The main part. The field of education is one of the main areas that determine human existence. In the modern system of education, one of the main requirements of the society is to raise and form a person who is well-developed, able to find non-standard solutions in complex situations, think creatively and receive continuous education throughout his life. This requires the formation of students' technological competence based on an innovative approach.

The main goal of teaching technology is to develop technical-technological and operational knowledge, skills and competencies in students, to choose a profession, to enter into social relations based on national and universal values.

In modern science, the term "technology" is used in the following units: teaching technology, educational process technology, training technology, management technology, multimedia technology. It is clear from the analysis that there are active and significant changes in approaches to the concept of "technology" from defining the processes of its development and material production to the definition of wide-ranging transformation activities for the provision of human needs. In this case, technology is understood in a broad sense not only as a human activity related to material production, but also as an activity of transformation in general.

The study of the main ideas related to technology, in particular, the main concepts, shows that in the pedagogy of our country, natural-scientific, structural, functional approaches to the technological preparation of students are considered, most seriously, from the aspect of production activities.

The researchers paid great attention to determining the conditions for students' transition to a new, practically oriented teaching system. The collective efforts of a wide range of specialists were focused on determining ways to provide methodological, personnel and information support for the new field of education.

SIR Publishers
CENTER FOR INTERNATIONAL SCIENTIFIC PUBLICATIONS
JOURNAL OF MULTIDISCIPLINARY BULLETIN
ISSN(Online): 2984-6722
SJIF Impact Factor |(2023): 5.887|
Volume-7, Issue-1, Published |20-01-2024|

Taking into account the young period of personality development, the following tasks are solved in the formation of technological competences in students:

- Formation of technological knowledge, skills and competencies, functional literacy in the use of work objects and tools in students;
- Expanding the thinking range of students and strengthening the knowledge and skills acquired in learning the basics of science in technological activities;
- Cultivating students' active life position, readiness for competitiveness, ability to actively enter the system of market relations;
- Development of creative abilities, design activities, mastering the basics of entrepreneurship;
- Formation and determination of important professional qualities;
- Introduction to the labor market, professional self-determination and socio-professional career planning;
- In-depth mastering of methods of activity and labor tools in the chosen field of professional activity.

In modern pedagogical practice, the analysis of the tasks of forming technological competences among students indicates the preservation of the traditions of labor (technology) education and priority orientation to the field of material production. This defines the scope of goals of practical oriented education, which is technological in form, but polytechnic in essence.

Prospects of technological training in the educational system, its importance and place in the educational process are determined by the tasks of development of students in accordance with the needs of broad social and professional formation. The modern stage of formation of technological competences among students makes it possible to form practically oriented educational bases in the structure of various spheres of social labor activity with advanced theory and practice.

As a result of the socio-economic changes taking place in our country, the labor market was created, which, in turn, undoubtedly led to the education market. The market model of education sets the task of adapting to the conditions of the individual, the needs of production, the national directions based on new legal and values. The transition to the educational services system determines the need to satisfy the educational needs of the customer, taking into account the interests and capabilities of the customer.

The main task of forming technological competencies in students is to prepare students for practical activities, to optimize the interaction of education and practice with real existence, to ensure social and professional self-determination and adaptation of students.

SIR Publishers
CENTER FOR INTERNATIONAL SCIENTIFIC PUBLICATIONS
JOURNAL OF MULTIDISCIPLINARY BULLETIN
ISSN(Online): 2984-6722
SJIF Impact Factor |(2023): 5.887|
Volume-7, Issue-1, Published |20-01-2024|

An innovative approach to teaching technology in an educational institution represents a sum of innovations introduced by an educational institution into the educational process. In this environment, the student's pedagogical activity and educational process (formation of technological competences in students) can be successfully implemented. In understanding the innovative approach in this sense, the pedagogical conditions created for technological education are an important condition for the pedagogue's activity.

The main purpose and content of the formation of technological competences in students based on an innovative approach is to prepare students for creative work and ensure their harmonious development in all aspects. Implementation of goals and content of formation of technological competences in students requires ensuring continuity and integrity of technological education.

Conclusions and recommendations.

As a result of studying the content and pedagogical conditions of formation of technological competences in students based on innovative approaches from a scientific point of view, the environment, situation and conditions formed under the influence of pedagogical and technological processes and influencing its implementation and development factor was found to play an important role.

As a forming factor of students' technological competence, to increase the level of students' knowledge and increase the efficiency of education and training processes to a higher level, to ensure the activity of students in the improvement of the organization and management of alternative pedagogical and technological education processes in the science of technology, and to achieve specific goals The motivational processes of the teacher of technology are important in performing the tasks set by.

It is necessary to develop the following skills of thinking, which are important for successfully solving the foundations of technological competence formation in students:

 skills for abstraction and modeling that rely more on students' analytical activities;

 generalization skills that require constant consideration of the conditions and factors of the task to be solved, as well as synthesis during the teaching process;

 is to change thinking processes and develop creative thinking skills that find expression in unique thinking.

These abilities are formed during the entire educational and working activities of students. The essence of technological education is to create the most optimal conditions for the formation of the above abilities in students.

JOURNAL OF MULTIDISCIPLINARY BULLETIN
ISSN(Online): 2984-6722
SJIF Impact Factor |(2023): 5.887|
Volume-7, Issue-1, Published |20-01-2024|

REFERENCES:

1. Ahmedov, M. M. (2023). DEVELOPMENT FACTORS OF COMPETENCE LEVEL OF TEACHER OF TECHNOLOGY. Open Access Repository, 4(03), 104-112.

2. Yakubjon Usmanov, Ikromova Komila Hamidullo qizi //Use of Innovative Technologies in Teaching Electrical Engineering// Texas Journal of Engineering and Technology. https://zienjournals.com. VOL. 9, JUNE, 2022. 97-99 page.

3. Tursunboy Axmedov, Siddikova Ranoxon Abdulxay qizi, Xusanova Lobarxon Murodovna //Basics of Wood Materials and Woodworking Technology// Texas Journal of Engineering and Technology. https://zienjournals.com. VOL. 9, JUNE, 2022. 100-102 page.

4. Аҳмедов, М., Рўзиматова, М., Аскарова, Б., & Мадаминова, М. (2023). АМАЛИЙ ФАН ЎҚИТУВЧИЛАРИНИНГ ПЕДАГОГИК ВА БОШҚАРУВ ФАОЛИЯТИ КОМПЕТЕНТЛИГИ НУҚТАИ НАЗАРДАН ЁНДАШИШ МУҲИМ ОМИЛ. Прикладные науки в современном мире: проблемы и решения, 2(7), 14–19.

5. Парпиева, О. Р., Ҳожикаримова, Г. Т., & Назирова, А. М. (2021). FORMATION OF STUDENT PEDAGOGICAL SKILLS BASED ON THE REQUIREMENTS OF INNOVATIVE EDUCATIONAL ENVIRONMENT. Экономика и социум, (6-2), 157-161.

6. Парпиева, О. Р., & Раззоқов, Б. Х. (2022). ИННОВАЦИОН ТАЪЛИМ ТЕХНОЛОГИЯЛАРИНИНГ ТУРЛАРИ ВА НАЗАРИЙ АСОСЛАРИ. Scientific Impulse, 1(5), 1204-1207.

7. Parpiyeva, O. R. (2022). Melikuzieva Zulhumor Sherqozi qizi, Abdullaeva Umidahon Uktamjon qizi. INNOVATIVE EDUCATIONAL TECHNOLOGIES, THEIR NATURE, TYPES AND THEORETICAL FUNDAMENTALS//Texas Journal of Multidisciplinary Studies, 9, 123-126.

8. Parpiyeva, O. R., & Ruzimatova, A. (2022). CREDIT-MODULE SYSTEM OF EDUCATION. O'ZBEKISTONDA FANLARARO INNOVATSIYALAR VA ILMIY TADQIQOTLAR JURNALI, 1(10), 76-80.

9. Rakhmanovna, P. O., & Tairovna, I. Z. (2023). INNOVATIVE EDUCATIONAL TECHNOLOGIES TYPES. Scientific Impulse, 1(10), 950-955.

10. Parpiyeva, O. R. (2022). Innovative Educational Technologies, Their Nature, Types And Theoretical Fundamentals. Texas Journal of Multidisciplinary Studies, 9, 123-126.

11. Парпиева, О. Р., & Болтабоева, Н. М. (2019). Этапы решения педагогической задачи. Теория и практика современной науки, (6 (48)), 388-390.

12. Парпиева, О. Р., & Назирова, А. М. (2021). ИННОВАЦИОН ТАЪЛИМ МУҲИТИ ТАЛАБЛАРИ АСОСИДА ТАЛАБАЛАРНИНГ ПЕДАГОГИК МАҲОРАТИНИ ШАКЛЛАНТИРИШ. Экономика и социум, (6-2 (85)), 157-161.

13. Qaxxorova Barchinoy Abdiraximovna, Ikromova Komila Hamidullo qizi, Nazirova Arofatxon Maxmudjon qizi //INNOVATIVE METHODS USED IN THE EDUCATIONAL PROCESS// IJODKOR O‘QITUVCHI JURNALI. 5 IYUN / 2022 YIL / 19 – SON. 277-283 betlar.

14. Razzokov Bakhtiyor Khabibullaevich, Yokubjonova Mukaddaskhon Khusanboy kizi //Future Technological Education Developing Professional Skills for Teachers//. Texas Journal of Multidisciplinary Studies, 7-2022, 178-180 pages.