

ISSN (E): 2938-3625



# EUROPEAN JOURNAL

OF PEDAGOGICAL INITIATIVES  
AND EDUCATIONAL PRACTICES



OPEN ACCESS  
PEER REVIEWED

VOLUME 1, ISSUE 9,  
DECEMBER, 2023



[HTTPS://EUROPEANSCIENCE.ORG](https://europeanscience.org)

## **Vol. 1 No. 9 (2023): EJPIEP**

### **Articles**

1. **Educational Mastery: Harnessing the Pedagogical Insights of Great Minds for Student Competence**

Kenjaeva Dildora Terkashevna

1-4

2. **Operating Principles and Applications of Blockchain Technology**

Usmonova Mavludakhon

5-8

3. **Meaning Elements of Communicative Activity**

Kadirova Z. R.

9-11

4. **Reflection of The Image of Alisher Navoi in "Boburnoma"**

Aslonov Ilkhom, Sabirova Raikhan

12-14

5. **Psychological Foundations of Developing a Sense of Humanity in Young Students**

Karimova Madina Kholmuratovna

15-17

6. **Theoretical and Practical Significance of the Activities of Students to Receive Independent Education**

Vakhob Nakshbandovich Sattorov, Abdrasheva Banu Zholdybekovna

18-20

7. **Using the Groups of Noun Words in English**

Rakhmonkulova Yakutkhan Tukhtasin kizi

21-24

8. **Alienation and Degradation as A Sociological Problem**

X. F. Akramov

25-31

9. **Legal Issues of Claims in Civil Proceedings of Central Asian States**  
Ibratova Feruza Babaqulovna, Orishev Oktambek Khasanboy son  
32-42
10. **The Importance of Basic Competences in Professional Teaching of Physics in General Secondary Schools**  
Muhammadova Dilafroz Akhmatovna, Rustamova Rukhshona Aminjonovna  
43-47
11. **Prospects for the Development of the Stock Market in Uzbekistan**  
Sultanov Sherali Nuralievich  
48-53
12. **Revenues of Local Budgets Regulation**  
Soatova Nodira Bobokhanovna  
54-57
13. **Advantages of Information Technology in Engineering Education**  
Madaminov Abdulloh Rustamjon o`g`li  
58-61
14. **Teaching Russian Language in Uzbek Universities**  
Turaeva Shahida Egamberdievna  
62-63
15. **Features of the Development of the Russian Language in the Era of Globalization**  
Turaeva Shahida Egamberdievna  
64-65
16. **The Importance of Games Used in The Development of Students' Intellectual Skills**  
Jamatova Malika Sherkulovna  
66-69

## The Importance of Basic Competences in Professional Teaching of Physics in General Secondary Schools

Muhammadova Dilafruz Akhmatovna  
Teacher of the Department of Physics, Faculty of Physics and  
Mathematics, Bukhara State University.  
dilafruzmuxammedova053@gmail.com, tel: (91) 445-56-55

Rustamova Rukhshona Aminjonovna  
Student of Bukhara Institute of Engineering Technology  
rustamovaruxshona88@gmail.com, tel: (91) 820-97-57

### Abstract

In the article, the importance of basic and subject-related competencies in solving the problem of professional orientation of teaching Physics is revealed. In addition, it was discussed that practical creativity is necessary for students to explain the nature of physical processes occurring in nature, and to use the knowledge gained from physics in everyday home conditions.

**Keywords:** ecological, physics, engineering, labor, competence, technology, trigonometric function.

### INTRODUCTION

After gaining independence in the Republic of Uzbekistan, major reforms were implemented in the field of education as well as in all directions. The laws "On Education" and "On the National Personnel Training Program" are among them.

The state educational standards envisage the formation of basic competencies and general competencies of students. Basic competences are abilities, skills and types of activities that a person should have in order to live successfully in society, regardless of the profession. This means that every person should be communicative, able to work with information, develop himself as a person, be a socially active citizen, have general cultural qualities and be mathematically literate.

As a result of the rapid development of science and technology, we will have to thoroughly study physics and create innovations. For this, it was necessary to significantly increase the level of the educational process, to ensure that students thoroughly master the fundamentals of science in the teaching of general professional subjects to young people, to form such qualities as faith in their profession, moral purity, love for our country and its future. It is necessary to educate in the spirit of a perfect person who is ready to contribute.

In the teaching of physics as a subject, professional guidance serves as one of the goals of teaching and as an important factor in improving the quality of knowledge. Professionally oriented teaching of physics not only increases professional agility, but also allows students to develop their spiritual strength and abilities, to form in them such qualities as a scientific outlook and a positive attitude.

Vocational training is also based on didactic principles. Vocational teaching of physics is mainly "demonstrational" because its source is technical objects. Because of this, the successive implementation of the polytechnic principle in physics teaching, along with the enrichment of the tools of the demonstration principle, imposes specific requirements on teaching equipment from physics.

Vocational training is formed and clearly manifested in labor and production-technical activities of a person. Therefore, the production of teaching and the connection with the work of students serve as a necessary condition for their assimilation of knowledge. Preparation of students for the profession is carried out in the process of learning the basics of science, labor education, in extracurricular activities on technique, technology and social-useful, production work.

### **LITERATURE ANALYSIS AND METHODOLOGY**

The problem of professional orientation of teaching physics is especially relevant today, because there is no field in which technology has not penetrated.

The laws considered in the study of physics require the introduction of technical applications in important areas of the national economy. This allows you to determine the theoretical and practical parts of the physics course.

Part of the students who graduated from secondary general education schools go to the production sector. In this regard, they must have received labor education. The physics teacher also participates to a certain extent in solving the issue of labor education. The purpose of labor education is to educate young people in the spirit of love and respect for colleagues and work teams, to prepare them to perform necessary and useful work for society, to prepare them from a young age to have a sense of responsibility for the result of work, to put the interests of the team above their own interests, and to achieve feelings of creative attitude to work. consists of If training is combined with production work, it will give good results.

### **RESULTS**

Labor education is one of the main goals of secondary general education schools. It is necessary to actively participate in the implementation of all subject teachers in secondary general education schools. A physics teacher should not only teach the basics of science in every lesson, but also implement labor education.

The polytechnic principle is the principle that determines the work method of the physics teacher in terms of labor education and career orientation of students. A physics teacher should be able to make students interested in his subject in his classes it is necessary, otherwise, no matter how beautifully he talks about the scientific foundations of modern production, about innovators and creators, the student will not develop a creative attitude to work. Another important task of physics teachers working in secondary general education schools is that they should be able to show in their lessons how necessary physics is for students' future work activities through concrete examples and demonstrate these through experiments. will be In this way, the teacher can increase students' interest in physics, as well as instill a sense of love for their profession. It is necessary to organize physics teaching in such a way that the students are convinced that the factor determining the development of technology is the laws of physics.

## DISCUSSION

Uncovering the humanitarian essence of science, that is, using its achievements for the welfare of the people, increases the polytechnic level of students and the effectiveness of their work on career guidance.

Learning physics does not only rely on students' previous knowledge of physics, but also on their knowledge of social and natural sciences. For example, from a mathematics course to study mechanics, vibrations and waves, trigonometric functions, from a chemistry course to study the phenomenon of electrolysis, atomic and nuclear physics, from a history course to explain the doctrines of heat and electricity, from a history course on industrial requirements in the 19th century. The knowledge gained from geography is used in the study of data, atmosphere, convention, earth magnetism phenomena.

## CONCLUSION

The teaching of physics in secondary general education schools requires a high level of knowledge and pedagogical skills from the teacher. Vocational training is of great importance in increasing students' interest in science and ensuring that they can use the knowledge they have acquired during the lesson in their work activities in the future.

## REFERENCES

1. Kakhkharov S.K., Juraev K.O., Jamilov Y.Y., Xudoyberdiyev S.B. // *Journal of Contemporary Issues in Business and Government* (2021) 27 PP 744-751.
2. Tuksanova Z., Nazarov E. Effective use of innovative technologies in the education system // *Интернаука* (2020) №16-3 С 30-32
3. Ниёзхонова Б.Э., Файзиёв Ш.Ш., Махсуд М., Махмудова Қ. Умумтаълим мактабларида физикани ўқитишда инновацион технологияларнинг ўрни // *Academic research in educational sciences* № 12 С 1116-1120
4. Arabov J.O., Qosimov F.T. Hozirgi zamon fan va texnikasining rivojida yarimo'tkazgichlarning o'rmi. // *Involta Scientific Journal*, 1(7). 2023/4/1. 134-138.
5. Arabov J.O., Yodgorova G.T. Fizika fanidan masalalar yechishda kompyuter texnologiyalaridan foydalanish. // *Finland International Scientific Journal of Education, Social Science & Humanities*, Том 11 № 3. 78-81
6. Jumayev M.R., Arabov J.O., Sattorova G.H., Tursunov A. N. Kristallardagi nochizig'iy akustik effektlar. // *Involta Scientific Journal*, 1(7). 2022/6/4. 3-8
7. Arabov J.O., Fayziyeva X. A. General considerations on the methodology for solving problems in physics // *Gospodarka i Innovatsje* (2022) №22, С 619-623.
8. Saidov S.O, Atoeva M.F, Fayziyeva X.A. Some actual issues of teaching modern physics in higher education. // *The American journal of applied sciences, PSYCHOLOGY AND EDUCATION* (2021) 58(1): 3542-3549 ISSN: 00333077.
9. Saidov S.O, Atoeva M.F, Fayziyeva Kh.A, Yuldosheva N.B. The Elements Of Organization Of The Educational Process On The Basis Of New Pedagogical Technologies. // *The American Journal of Applied Sciences*, 2(09). 2020., 164-169.

10. Fayziyeva X.A. Modern pedagogical technologies of teaching physics in secondary school. // European Journal of Research and Reflection in Educational Sciences Vol. 8 No. 12, 2020 Part III ISSN 2056-5852. C 85-90.
11. Fayziyeva X.A. Fizika fanini o'qitishda yangi pedagogik texnologiya
12. elementlaridan foydalanish. // "O'zbekistonda milliy tadqiqotlar: Davriy anjumanlar:" [Toshkent; 2022]. C 30-31.
13. Farhodovna A.M., Olimboevich A.J., Badriddinovich K.B. Innovative Pedagogical Technologies For Training The Course Of Physics // The American Journal of Interdisciplinary Innovations and Research (2020) №2 (12), C 82-91.
14. Atoeva M.F., Arabov J.O., Kobilov B.B. Innovative Pedagogical Technologies For Training The Course Of Physics.// Journal of Interdisciplinary Innovations and Research, (2020). 2(12), PP 82-91.
15. Kakhkhorov S.K, Juraev H.O Modeling of heat-physical processes in solar dryers// journal of critical reviews. vol 7, issue 17, (2020) pp 9-15
16. Каххоров С.К., Рахматов И.И., Мухаммедов Ш.М. Особенности построения образовательного процесса на основе модульных технологий обучения в узбекистане // Вестник науки и образования ( 2020) № 18(96) Часть 2 С 33-36.
17. Juraev H.O. Training Materials for Alternative Energy Sources in Education // Eastern European Scientific Journal. –Düsseldorf, 2017. № 1. –p. 127–131.
18. Juraev Kh.O. Ways of Using Educational Materials on Alternative Energy Sources at Physics Lessons // Eastern European Scientific Journal. – Düsseldorf, 2017. № 2. – P. 83–86.
19. Kakhkharov S.K., Juraev H.O. Use of alternative energy sources at natural sciences lessons // The Way of Science. – Volgograd, 2017. № 2. – P. 148–150.
20. Fayzieva Kh.A. Use of modern information technologies in teaching physics // A German Journal World Bulletin of Social Sciences An International Journal Open Access Peer Reviewed scholarexpress.net ISSN (E): 2749-361X Journal Impact Factor: 7.545. VOLUME 20, March, 2023, C 30-34.
21. Muhammadova D.A. Development of Students' competence in working with information in physics lessons. // A German Journal World Bulletin of Social Sciences An International Journal Open Access Peer Reviewed scholarexpress.net ISSN (E): 2749-361X Journal Impact Factor: 7.545. VOLUME 20, March, 2023,35-39
22. Muhammadova D.A., Qurbonova M.X. O'quvchilar bilimini nazorat qilishda testdan foydalanish. // Hozirgi zamon fizikasining dolzarb muammolari. Xalqaro ilmiy va ilmiy-texnik anjuman materiallari. (2023) 502-503
23. Muhammadova D.A. To develop the inventive components of students in physics lessons. // Involta" Ilmiy Jurnal Vol. 1 No.6 (2022) Involta Scientific Journal 395-404
24. Muhammadova D.A., Abdullayeva Z.G. Developing students 'inventive competences in physics classes. // Международный научно образовательный электронный журнал «образование и наука в XXI веке». Выпуск №24 том 4 (2022) 141-145
25. Muhammadova D.A., Narzullayev D.A. Yangi fizika asoslanish yo'lida. // Science a science and education in the modern world: Challenges of the XXI century. Nur-sultan, kazakhstan, (2019) 78-80

26. Fayziyeva X.A., Fizika fanini o'qitishda zamonaviy axborot texnologiyalaridan foydalanish. // "PEDAGOGS" international research journal ISSN: 2181-4027\_SJIF: 4.995. Volume-33, Issue-2, May-2023, 4-9.
27. Muhammadova D.A., Fizika darslarida o'quvchilarning axborotlar bilan ishlash kompetentsiyasini rivojlantirish. // "PEDAGOGS" international research journal ISSN: 2181-4027\_SJIF: 4.995. Volume-33, Issue-1, May-2023, 178-184.
28. Muhammadova D.A., Fayzieva Kh.A., Teaching of physics in general secondary schools.// American of technology and applied sciences journal ISSN (E): 2832-1766\_SJIF: 2023: 5.957\_JIF: 7.235. Volume-12, May-2023, 73-74
29. Fayzieva Kh.A., Muhammadova D.A., Use of innovative technologies in teaching physics.// American of technology and applied sciences journal ISSN (E): 2832-1766\_SJIF: 2023: 5.957\_JIF: 7.235. Volume-12, May-2023, 63-67.