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- 13.00.00 Pedagogika fanlari
- 13.00.01 Pedagogika nazariyasi. Pedagogik ta'limotlar tarixi
- 13.00.02 Ta'lim va tarbiya nazariyasi va metodikasi (sohalar bo'yicha)
- 13.00.03 Maxsus pedagogika
- 13.00.04 Jismoniy tarbiya va sport mashg'ulotlari nazariyasi va metodikasi
- 13.00.05 Kasb-hunar ta'limi nazariyasi va metodikasi
- 13.00.06 Elektron ta'lim nazariyasi va metodikasi (ta'lim sohaları va bosqichlari bo'yicha)
- 13.00.07 Ta'limda menejment
- 13.00.08 Maktabgacha ta'lim va tarbiya nazariyasi va metodikasi
- 13.00.09 Ijtimoiy pedagogika
- 07.00.00 Tarix fanlari
- 19.00.00 Psixologiya fanlari
- 01.00.00 Fizika-matematika fanlari
- 02.00.00 Kimyo fanlari
- 03.00.00 Biologiya fanlari
- 09.00.00 Falsafa fanlari
- 10.00.00 Filologiya fanlari
- 11.00.00 Geografiya fanlari

M AKTABGACHA VA AKTAB TA'LIMI

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THE INFLUENCE OF A COMPETENCY-BASED APPROACH ON EDUCATIONAL QUALITY IN PHYSICS INSTRUCTION

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Abstract: This article analyzes the significance of applying a competence-based approach in teaching physics and its role in improving the quality of education. Unlike traditional teaching methods, the author focuses on developing students' independent thinking, practical skills, and the ability to apply theoretical knowledge in real-life situations. The article demonstrates the effectiveness of interactive methods, problem-based learning, and laboratory sessions in increasing student motivation.

Key words: competence-based approach, physics education, quality of education, interactive methods, laboratory work, practical skills, virtual laboratory.

Annotatsiya: Ushbu maqolada fizika fanini o'qitishda kompetensiyaviy yondashuvni qo'llashning ahamiyati va uning ta'lim sifatini oshirishdagi o'rni tahlil qilinadi. Muallif an'anaviy o'qitish usullaridan farqli ravishda o'quvchilarning mustaqil fikrlashini rivojlantirish, amaliy ko'nikmalarini takomillashtirish hamda nazariy bilimlarni real hayotiy vaziyatlarda qo'llash qobiliyatini shakllantirish masalalarini yoritadi. Maqolada interaktiv metodlar, muammoli ta'lim va laboratoriya mashg'ulotlarining o'quvchilar motivatsiyasini oshirishdagi samaradorligi asoslab beriladi.

Kalit so'zlar: kompetensiyaviy yondashuv, fizika o'qitish, ta'lim sifati, interaktiv metodlar, laboratoriya ishlari, amaliy ko'nikmalar, virtual laboratoriya.

Аннотация: В данной статье анализируется важность применения компетентностного подхода в преподавании физики и его роль в повышении качества образования. Автор рассматривает вопросы развития самостоятельного мышления учащихся, совершенствования их практических навыков и формирования способности применять теоретические знания в реальных жизненных ситуациях. В статье обосновывается эффективность интерактивных методов, проблемного обучения и лабораторных занятий в повышении мотивации учащихся.

Ключевые слова: компетентностный подход, преподавание физики, качество образования, интерактивные методы, лабораторные работы, практические навыки, виртуальная лаборатория.

INTRODUCTION

The current reforms being implemented in the educational system necessitate the introduction of modern approaches. In particular, it is becoming increasingly important to develop not only the theoretical knowledge of students in general secondary and specialized secondary educational institutions but also their practical skills and abilities. From this perspective, implementing a competency-based approach in the educational process is one of the most pressing issues of today. The subject of physics is distinguished by its complexity and its close connection with real-life processes. Through this subject, essential competencies such as logical thinking, problem-solving, analysis, and drawing conclusions are formed in students alongside scientific knowledge. Therefore, in teaching physics, it is vital to move beyond traditional methods and utilize a competency-based approach that ensures the active participation of students and encourages independent thinking.

The competency-based approach focuses not merely on the acquisition of knowledge by students but also on their ability to apply it in practice, serving as a key factor in improving the quality of education. Lessons organized on the basis of this approach increase students' interest, strengthen their motivation to learn, and develop their independent working skills.

LITERATURE REVIEW

This article analyzes the importance of the competency-based approach in teaching physics, the methods of its practical application, and its overall impact on the quality of education. The competency-based approach is a vital component of the modern educational system aimed at developing students' ability to apply knowledge, skills, and competencies in practical activities. According to this approach, the student is not merely a passive recipient of ready-made information but is viewed as an active subject who independently acquires, analyzes, and applies knowledge in real-life situations. This serves as a crucial factor in the effective organization of the learning process and the enhancement of educational quality ^[1].

Applying a competency-based approach in physics education holds particular significance in shaping students' scientific worldviews. Physics is not just a collection of theoretical knowledge; it is a science that explains natural phenomena and links them to practice. Therefore, it is essential to develop competencies such as logical thinking, identifying cause-and-effect relationships, and analyzing experimental results during the teaching of this subject ^[2].

Increasing student engagement is a key task in physics lessons organized around a competency-based approach. In this regard, the use of interactive methods yields high efficiency. Specifically, students' independent thinking is developed through the creation of problem-based situations, question-and-answer sessions, small-group work, and collaborative discussions. Through these methods, students acquire knowledge through inquiry rather than receiving it in a finalized form ^[3].

Furthermore, laboratory sessions are among the most important tools for implementing the competency-based approach in physics classes. During laboratory work, students learn to conduct experiments, observe results, and record and analyze data. This process forms the elements of scientific research and develops their practical skills. Consequently, students gain the opportunity to connect theoretical knowledge with real-world processes ^[2].

RESEARCH METHODOLOGY

The use of information and communication technologies (ICT) in the modern educational process also facilitates the effective implementation of the competency-based approach. In particular, complex physical phenomena can be easily explained using virtual laboratories, interactive simulations, animations, and multimedia tools. This increases students' interest in the lesson and helps them master the material more effectively ^[4].

ANALYSIS AND RESULTS

The competency-based approach develops students' skills in independent work, self-monitoring, and self-assessment. For instance, assigning small projects and encouraging inquiry through independent tasks enhance educational effectiveness. In this process, students learn to evaluate their own level of knowledge, identify deficiencies, and work toward overcoming them ^[3].

As a result, utilizing a competency-based approach in teaching physics not only raises students' level of knowledge but also contributes to the development of essential life skills. This, in turn, has a positive impact on the quality of education and prepares students for their future professional activities. Therefore, it is of great importance to widely introduce this approach into the educational process ^[1].

In the modern education system, the competency-based approach serves to develop not only students' theoretical knowledge but also their ability to apply it in practical activities. Research indicates that teaching physics based on a competency-based approach significantly develops students' independent thinking, creative abilities, and practical skills ^[5].

Moreover, cooperation between teachers and students reaches a new level in competency-based education. In this approach, students transform from passive recipients of information into active participants who search for, analyze, and apply knowledge in practice ^[6].

In physics lessons organized under this approach, students' level of knowledge and learning motivation increase through problem-based learning, experimental work, and interactive methods. Consequently, educational efficiency improves, and students' interest in the subject is strengthened ^[7].

CONCLUSION

In conclusion, the transition to a competency-based approach in physics education is not merely a pedagogical trend but a fundamental necessity for modernizing the school curriculum. The analysis conducted in this article demonstrates that shifting the focus from passive information acquisition to the active application



of knowledge significantly enhances students' engagement and understanding of complex physical laws. By integrating interactive methods, laboratory experiments, and modern digital simulations, educators can bridge the gap between abstract theory and real-world practice. This approach fosters essential life skills, including logical reasoning, critical analysis, and independent problem-solving abilities. Ultimately, the systematic implementation of competency-based teaching ensures a higher quality of education and better prepares students for future professional challenges and scientific innovation in an increasingly technological world.

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- 13.00.00 Pedagogika fanlari
 - 13.00.01 Pedagogika nazariyasi. Pedagogik ta'limotlar tarixi
 - 13.00.02 Ta'lim va tarbiya nazariyasi va metodikasi (sohalar bo'yicha)
 - 13.00.03 Maxsus pedagogika
 - 13.00.04 Jismoniy tarbiya va sport mashg'ulotlari nazariyasi va metodikasi
 - 13.00.05 Kasb-hunar ta'limi nazariyasi va metodikasi
 - 13.00.06 Elektron ta'lim nazariyasi va metodikasi (ta'lim sohaları va bosqichlari bo'yicha)
 - 13.00.07 Ta'limda menejment
 - 13.00.08 Maktabgacha ta'lim va tarbiya nazariyasi va metodikasi
 - 13.00.09 Ijtimoiy pedagogika
 - 07.00.00 Tarix fanlari
 - 19.00.00 Psixologiya fanlari
 - 01.00.00 Fizika-matematika fanlari
 - 02.00.00 Kimyo fanlari
 - 03.00.00 Biologiya fanlari
 - 09.00.00 Falsafa fanlari
 - 10.00.00 Filologiya fanlari
 - 11.00.00 Geografiya fanlari



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