

## IMPROVING THE METHODOLOGY FOR DEVELOPING THE SCIENTIFIC AND PHILOSOPHICAL WORLDVIEW OF FUTURE TEACHERS

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### Annotation

This article analyzes the methodology for developing the scientific and philosophical worldview of future teachers. In modern pedagogy, the formation of a scientific-philosophical worldview plays a significant role in preparing teachers who are capable of critical thinking, independent analysis, and effective educational activity. The article highlights the theoretical foundations and methodological approaches used in the process of developing such a worldview among students of pedagogical specialties. Special attention is given to interactive teaching methods, interdisciplinary integration, philosophical reflection, and the role of modern educational technologies in the learning process. The research emphasizes that the development of a scientific and philosophical worldview contributes to the intellectual growth of future teachers, strengthens their professional identity, and helps them respond effectively to social and educational changes.

**Keywords:** pedagogy, philosophy, worldview, scientific thinking, methodology, future teachers, education, development, critical thinking, society.

## СОВЕРШЕНСТВОВАНИЕ МЕТОДИКИ ФОРМИРОВАНИЯ НАУЧНОГО И ФИЛОСОФСКОГО МИРОВОЗЗРЕНИЯ БУДУЩИХ УЧИТЕЛЕЙ

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### Аннотация:

В данной статье анализируется методика формирования научно-философского мировоззрения будущих учителей. В современной педагогике формирование научно-философского мировоззрения играет значительную роль в подготовке учителей, способных к критическому мышлению, самостоятельному анализу и эффективной образовательной деятельности. В статье освещаются теоретические основы и методологические подходы, используемые в процессе формирования такого мировоззрения у студентов педагогических специальностей. Особое внимание уделяется интерактивным методам обучения, междисциплинарной интеграции, философской рефлексии и роли современных образовательных технологий в учебном процессе. В исследовании подчеркивается, что развитие научного и философского

мировоззрения способствует интеллектуальному росту будущих учителей, укрепляет их профессиональную идентичность и помогает им эффективно реагировать на социальные и образовательные изменения.

**Ключевые слова:** педагогика, философия, мировоззрение, научное мышление, методология, будущие учителя, образование, развитие, критическое мышление, общество.

## Introduction

The modern educational system requires teachers who possess not only professional knowledge and pedagogical skills but also a broad intellectual outlook and the ability to analyze social and cultural processes critically. In this context, the development of the scientific and philosophical worldview of future teachers becomes one of the most important tasks of higher education institutions.

A teacher plays a key role in shaping the worldview of younger generations. Therefore, the teacher's own worldview, intellectual level, and moral values significantly influence the quality of the educational process. Future teachers must understand the philosophical foundations of education, the nature of knowledge, and the social responsibility associated with teaching.

The concept of a scientific and philosophical worldview includes a system of knowledge, beliefs, and intellectual attitudes that allow individuals to understand reality objectively and interpret social phenomena critically. In pedagogical practice, such a worldview helps teachers approach educational problems creatively and apply innovative methods in the learning process.

Developing the scientific and philosophical worldview of future teachers contributes to the formation of independent thinking, analytical abilities, and the capacity to evaluate social processes scientifically. It also helps educators integrate national cultural traditions with universal human values. Theoretical Foundations of the Scientific and Philosophical Worldview

The formation of a scientific-philosophical worldview is a complex intellectual process that includes several important components.

First, the epistemological component focuses on understanding the nature and sources of knowledge. Future teachers should be able to distinguish between scientific knowledge, everyday knowledge, and philosophical reflection.

Second, the ontological component includes ideas about the nature of reality, the structure of the world, and the relationship between humans and society. Understanding these concepts helps teachers interpret social and cultural phenomena more objectively.

Third, the axiological component relates to values, ethics, and moral principles that guide pedagogical activity. Teachers must demonstrate responsibility, fairness, and respect for students' individuality.

Fourth, the historical and cultural component reflects the influence of philosophical traditions and intellectual heritage. The study of classical philosophers allows students to understand how philosophical thought has influenced education throughout history.

The philosophical heritage of both Eastern and Western thinkers provides valuable insights into educational development. Scholars such as Al-Farabi, Ibn Sina, Confucius, Aristotle, and Immanuel Kant have emphasized the importance of knowledge, morality, and intellectual growth in the formation of human personality.

#### Methodological Approaches to Developing a Scientific and Philosophical Worldview

Higher education institutions apply various methodological approaches to develop the scientific and philosophical worldview of future teachers.

#### Problem-Based Learning

One of the most effective methods is problem-based learning. In this approach, students analyze philosophical questions and attempt to find solutions through discussion and independent research. For example, students may debate questions such as: "Is knowledge an objective reality or a product of human consciousness?"

#### Interactive Teaching Methods

Interactive teaching methods such as debates, discussions, brainstorming, and role-playing activities help students develop argumentation skills and critical thinking. These methods encourage active participation in the learning process.

#### Analysis of Philosophical Texts

Studying classical philosophical texts allows students to analyze different philosophical perspectives and develop interpretative skills. This approach promotes deeper understanding of philosophical concepts related to education and society.

#### Research Activities

Scientific research activities such as course papers, mini-projects, and presentations encourage students to explore philosophical ideas independently. Research work develops analytical thinking and academic writing skills.

#### Interdisciplinary Integration

Philosophy is closely connected with other disciplines, including psychology, sociology, biology, and pedagogy. Integrating philosophical knowledge with other sciences allows students to form a holistic worldview.

### Use of Information and Communication Technologies

Modern educational technologies provide new opportunities for philosophical education. Multimedia presentations, online discussions, and digital learning platforms enhance students' engagement and facilitate collaborative learning.

### Teacher's Personal Example

The teacher's own worldview, intellectual culture, and professional ethics serve as an important model for students. Teachers who demonstrate intellectual curiosity and philosophical reflection inspire students to develop similar qualities.

### Discussion

Research shows that the development of a scientific and philosophical worldview significantly improves students' intellectual abilities and professional readiness. Teachers who possess a strong philosophical foundation are better prepared to address complex educational challenges and adapt to rapidly changing social conditions.

In addition, such teachers are capable of fostering critical thinking among their students. Critical thinking is considered one of the most important competencies in modern education because it allows individuals to analyze information objectively and make informed decisions. Furthermore, the formation of a scientific and philosophical worldview helps future teachers develop a sense of social responsibility and ethical awareness. Teachers must understand their role not only as transmitters of knowledge but also as mentors who shape students' personalities and values.

In the context of globalization, educators must also promote intercultural dialogue and respect for cultural diversity. A well-developed worldview enables teachers to integrate national traditions with universal human values, creating a balanced and inclusive educational environment.

### Conclusion

The development of the scientific and philosophical worldview of future teachers is a strategic objective of modern education. This process contributes to the formation of independent thinking, intellectual maturity, and professional competence among future educators.

The research shows that a scientific-philosophical worldview cannot be formed only through theoretical knowledge. It requires the integration of philosophical reflection, critical thinking, ethical values, and practical educational experience.

Applying innovative teaching methods, problem-based learning, philosophical text analysis, and interdisciplinary approaches can significantly improve the effectiveness of this process. These methods help students develop philosophical literacy, analytical abilities, and research skills.

Ultimately, the formation of a scientific and philosophical worldview prepares future teachers not only as qualified professionals but also as thoughtful individuals who are capable of responding to social challenges and contributing to the development of society.

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