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## USE OF AN INTERDISCIPLINARY APPROACH ON THE EXAMPLE OF TEACHING THE DISCIPLINE "METHODOLOGY OF SCIENTIFIC RESEARCH"

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### ABSTRACT

In the context of global transformations, the education system of Uzbekistan is also undergoing reforms aimed at improving the quality of training specialists. An interdisciplinary approach in teaching Methodology of scientific research is a promising direction that contributes to the formation of flexibility of thinking, critical analysis and the ability to adapt to modern challenges in master's and doctoral students. This article examines the possibility and necessity of applying an interdisciplinary approach in the higher education system of Uzbekistan, as well as the key challenges and prospects for its implementation.

### KEYWORDS

Methodology of scientific research, method, discipline, pedagogy, approach.

### INTRODUCTION

The development of science and technology demands that young researchers possess the ability to analyze problems comprehensively, apply knowledge from various disciplines, and adapt to rapidly changing conditions. An interdisciplinary approach, which combines knowledge from different fields, is becoming particularly important for Uzbekistan as it strives to

integrate into the global scientific community and improve the quality of education.

The Methodology of Scientific Research is a foundational course that establishes the basis for scientific analysis and methodological thinking among master's students and doctoral candidates. An

interdisciplinary approach facilitates the creation of a knowledge system in which master's students or doctoral candidates can utilize tools and methods from various fields, identifying the most appropriate ways to address research challenges [1]

## METHODS

This article employs methods such as the analysis of scientific literature, methodologies of interdisciplinary education, and examples of successful implementation of such approaches in educational programs of other countries. Special attention is given to examining the experience of local universities, where interdisciplinary approaches are gradually being introduced to prepare a new generation of researchers. The article explores key aspects of the interdisciplinary approach and its adaptation to the education system of Uzbekistan.

## RESULTS

### Theoretical Foundations of the Interdisciplinary Approach

The interdisciplinary approach involves utilizing knowledge and methods from various disciplines to study and analyze problems [2]. This learning approach:

1. Enables the systematization of knowledge from different scientific fields.
2. Promotes the development of flexible thinking necessary for solving complex problems.
3. Teaches researchers to analyze problems from diverse perspectives, leading to a holistic approach to research.

Based on these principles, instructors of the course **"Methodology of Scientific Research"** can significantly enhance the curriculum by incorporating interdisciplinary topics and projects, which require the application of data and methods from other sciences, such as sociology, statistics, economics, and psychology [3].

**1. Strengthening the Interdisciplinary Approach through the Integration of Social and Humanities Sciences.** To effectively teach the methodology of scientific research in Uzbekistan, it is essential to include elements of social and humanities sciences, such as sociology, psychology, and cultural studies. These disciplines help young researchers consider scientific studies within the context of society and understand sociocultural aspects. This is particularly relevant for Uzbekistan, where cultural diversity and social characteristics play a significant role.

**2. Applying Natural Science and Mathematical Approaches in Humanities Research.** Incorporating data analysis methods and mathematical models helps students develop quantitative analysis skills. This is valuable for studying socio-economic and environmental issues critical for our country, such as water resources and sustainable development. Researchers proficient in statistical analysis methods can conduct more precise studies and formulate well-substantiated conclusions [4].

**3. Examples of Interdisciplinary Projects.** One successful example is a project studying the ecological state of the Aral Sea, which integrates knowledge from biology, ecology, economics, and sociology. Within such projects, researchers can examine the impact of environmental issues on local communities,

contributing to the development of a more holistic and socially oriented approach to scientific research.

## Analysis

### 1. Advantages of the Interdisciplinary Approach.

Interdisciplinary education fosters the development of analytical and critical thinking skills in researchers, helping them to approach problems comprehensively and devise integrative solutions [5]. Notably, this approach enables adaptability to working in multidisciplinary teams, aligning with the goals and needs of Uzbekistan's scientific and educational community.

### 2. Challenges in Implementing the Interdisciplinary Approach in Uzbekistan.

The primary difficulties include a lack of educators with interdisciplinary expertise and limited opportunities for training teachers to adopt new approaches [6]. Implementing an interdisciplinary approach also requires revising curricula and significant financial investments. Additionally, integrating interdisciplinary education requires infrastructural changes, such as access to digital educational platforms and tools for working with big volumes of data.

## CONCLUSIONS

The interdisciplinary approach to teaching the methodology of scientific research is highly relevant for Uzbekistan as it seeks to modernize its education system and enhance its competitiveness on the international stage. This approach equips students to adapt effectively to changes, develop comprehensive solutions, and work in a multicultural society. Despite the challenges, adopting an interdisciplinary approach

opens new opportunities for Uzbekistan's scientific and educational community, particularly in the context of sustainable development and the country's integration into the global economy

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