

METHODS AND FORMS OF INTEGRATED TEACHING OF MATHEMATICS AND ECONOMICS

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Annotatsiya: matematika va iqtisod bir-biri bilan chambarchas bog‘liq bo‘lgan fanlar bo‘lib, ularning integratsiyasi o‘quvchilarning analitik fikrlash qobiliyatini rivojlantirishga, iqtisodiy muammolarni matematik modellashtirishga va real hayotdagi vaziyatlarni tushunishga yordam beradi. O‘quvchilarning faol ishtirokini ta‘minlash uchun guruhli ishlar, seminarlar, va amaliy mashg‘ulotlar kabi shakllar kiritiladi. Bu o‘quv shakllari matematika va iqtisodiy tushunchalarni bir-biriga bog‘lash imkonini beradi.

Kalit so‘zlar: integratsiyalashgan o‘qitish, interaktiv usullar, loyihalashtirish, kreativ fikrlash, o‘quv dasturlari, texnologiyalarni qo‘llash.

Аннотация: Математика и экономика являются тесно связанными дисциплинами, и их интеграция помогает студентам развивать навыки аналитического мышления, математически моделировать экономические проблемы и понимать реальные ситуации. Для обеспечения активного участия студентов вводятся такие формы, как групповая работа, семинары и практические занятия. Эти форматы обучения позволяют связать математические и экономические концепции.

Ключевые слова: интегрированное обучение, интерактивные методы, проектирование, творческое мышление, учебные программы, использование технологий.

Abstract: Mathematics and economics are closely related disciplines, and their integration helps students develop analytical thinking skills, mathematically model economic problems, and understand real-life situations. To ensure active participation of students, forms such as group work, seminars, and practical exercises are introduced. These forms of learning allow you to connect mathematical and economic concepts.

Key words: integrated learning, interactive methods, design, creative thinking, curricula, use of technologies.

Integrated education and interdisciplinary communication are two complementary concepts. Interdisciplinary communication refers to the communication between academic disciplines in order to allow the student to understand a particular problem as deeply as possible in the process of mastering certain knowledge and to effectively apply the acquired knowledge in practice. Integration, on the other hand, means a consistent, in-depth and multifaceted disclosure of the leading ideas and phenomena inherent in the studied problem based on the knowledge gained in the disciplines as a whole, academic disciplines, their sections and topics. In order to study a solution to a problem in an integrated way based on interdisciplinary communication, the teacher must first clearly define the goal, review the material to be studied, select appropriate methods for its effective mastery, determine the form and necessary materials for organizing the lesson process, and predetermine the results

to be obtained. Ensuring intersubject connection, that is, coherence, in the formation of students' worldview is one of the most urgent issues today. Because, having ensured intersubject connection, a teacher who is able to organize a lesson not only increases students' interest in their own subject, but also helps them master this subject. As a result of the systematic implementation of intersubject connection, the connection of the educational process increases significantly. Students develop thinking skills. At the same time, it is an important condition for the development of knowledge and interests in academic subjects. The content of intersubject connection and the volume of materials are determined by the curriculum in the school mathematics course. It is already known in teaching methodology that each subject teacher explains the interrelationship of a particular subject to his students and skillfully uses it in the learning process. In an era of unprecedented scientific and technological progress, interdisciplinary integration is crucial for the establishment of lifelong learning. The term integration is derived from the Latin word integration, which means joining, uniting. Information integration involves combining and presenting materials from different sources for a specific purpose. Integration between mathematics and economics plays an important role in the modern education system. These two disciplines complement each other, since mathematical models help to understand and analyze economic processes. This article considers the methods and forms of integrated teaching of mathematics and economics. The main goal of integrated teaching of mathematics and economics is:

Understanding economic processes through mathematical models becomes more interesting and effective for students. Students acquire the skills to use mathematical tools to solve real-life economic problems.

Mathematical analysis of economic problems encourages students to think critically. Project method: students collectively create mathematical models to solve an economic problem. Through this method, students have the opportunity to apply their knowledge in practice. Contextual learning: studying mathematical theories in an economic context. For example, students learn mathematical formulas related to economic indicators (inflation, wages, gross domestic product). Simulations and games: through economic simulations and games, students learn to analyze economic processes using mathematical models. This method is interactive and interesting, and attracts students. Problem solving: students are given mathematical problems to solve real-life economic problems. Through this method, students have the opportunity to apply their theoretical knowledge in practice. Cross-disciplinary approach: showing the interconnections between mathematics and economic sciences. For example, the study of economic statistics uses the foundations of mathematical statistics. Integrated teaching of economics is an approach that provides for the study of economics together with other subjects. This method is important for applying economic theories in practice and for attracting more students. The main methods and forms of integrated teaching of economics are presented below. Through interactive seminars and classes, students will have the opportunity to exchange ideas and gain experience. In this form, it is very important to organize discussions and debates. Conducting practical exercises for students to analyze real-life economic situations. Through this form, students will have the opportunity to apply theoretical knowledge in practice. There are opportunities for integrated teaching of economics through digital learning platforms. Integrated teaching of economics by involving

students in research work. Students independently conduct research and present results. Students can participate in projects aimed at solving social problems. Through this method, they learn to apply economic theories in practice. Integrated teaching of economics encourages students to actively participate and provides opportunities for them to apply their theoretical knowledge in practice. With the help of these methods and formats, students gain a deeper understanding of economic processes and develop skills in solving real-life problems.

Teaching mathematics and economics in a unified manner through interactive seminars. In this way, students have the opportunity to exchange ideas and gain experience. There are opportunities for integrated teaching of mathematics and economics through digital learning platforms. Online courses can include topics that interest students. Organizing practical exercises for students to solve real-life economic problems. Through this form, students have the opportunity to apply their theoretical knowledge in practice. Teaching mathematics and economics in an integrated manner by involving students in research work. Students conduct research independently and present the results. Integrated teaching of mathematics and economics is important in the modern education system. This approach allows students to apply theoretical knowledge in practice, as well as develop their critical thinking skills. The variety of teaching methods and forms creates an interesting and effective learning process for students, which will be the foundation for their future success.

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