



DEVELOPMENT OF STUDENTS' INTELLECTUAL- CREATIVE THINKING SKILLS: A MODERN APPROACH

Novshadbekova Dilmura Zafarbek kizi

basic doctoral student, Andijan

state pedagogical institute

<https://doi.org/10.5281/zenodo.15004301>

Annotation: This article discusses the intellectual and creative thinking skills of higher education students, the stages and methods of developing their worldview. The interpretation of the concepts of creativity and intellect in modern pedagogy is fully revealed.

Keywords: intellectual, creative, logical analysis, critical thinking, infographics, professional development, scientific potential, startup project, artificial intelligence, critic.

In today's world, where information and technology are advancing at an unprecedented rate, students' intellectual-creative thinking skills are becoming a key factor in achieving success. The ability to think critically, analyze information, generate new ideas, and solve problems in non-standard ways are qualities valued by employers and necessary for successful self-expression in life.

In this article, we will explore various aspects of developing students' intellectual-creative thinking skills, based on modern scientific research and pedagogical practice.

Intellectual-creative thinking shapes students' ability to analyze complex issues, generate innovative ideas, and apply new approaches. Today, these skills play an important role in training competitive professionals. In a rapidly evolving environment of information and technology, students' intellectual-creative thinking skills become essential to their success. Intellectual thinking refers to the ability to analyze information, think logically, draw conclusions, and make informed decisions. Creative thinking, on the other hand, is the ability to generate new ideas, find non-standard approaches to solving problems, and go beyond the boundaries of traditional thinking. Intellectual-creative thinking combines these two aspects, allowing a person not only to analyze information but also to create new knowledge, find original solutions, and adapt to changing conditions.

Intellectual-creative thinking is the process of finding solutions to problems by combining logical analysis and a creative approach. While intellectual thinking requires depth of reflection, an analytical approach, and clear logical arguments, creative thinking is associated with creating something new, interpreting existing concepts differently, and developing extraordinary approaches. Developing these skills in students enhances their ability to develop innovative ideas and make independent decisions.

Various pedagogical and psychological methods can be used to develop students' intellectual-creative thinking abilities: Problem-based learning The problem-based learning method encourages students to think. Teachers should pose relevant problems to students during the lesson and encourage them to solve them independently or collectively. This method helps develop analytical and creative thinking.

Creative activities and projects Involving students in various creative projects helps to increase their creative thinking. For example, startup projects, scientific research, or creative works in the field of art inspire them to create something new.

Developing critical thinking It is necessary to provide students with the opportunity to analyze various sources, compare alternative opinions, and draw personal conclusions. Their critical thinking skills can be enhanced through discussions, essay writing, and analytical assignments.

Interactive teaching methods The use of role-playing games, brainstorming, and quest methods in the learning process encourages students to think actively. These methods help them develop independent thinking and teamwork skills.

Using scientific and technological innovations. Modern technologies, artificial intelligence, and innovative software encourage students to think in new ways. For example, virtual laboratories and simulations create the opportunity to apply theoretical knowledge in practice.

Developing intellectual-creative thinking in students helps them succeed in their studies and careers. Students with well-developed intellectual-creative thinking skills better absorb learning material, find solutions to complex problems faster, and can adapt to new learning environments. In the future, this will help them succeed in their careers, find interesting and well-paid jobs, and also create their own projects and startups. In addition, intellectual-creative thinking contributes to the development of personality traits such as curiosity, initiative, responsibility, self-confidence, and the ability to work in a team. In today's constantly changing world, the ability to think creatively and solve problems in non-standard ways is especially important. People with well-developed intellectual-creative thinking skills adapt more easily to new conditions, find solutions to emerging problems faster, and can function successfully in a rapidly changing world. Furthermore, creative ideas and innovative solutions created by people with well-developed intellectual-creative thinking skills contribute to the development of science, technology, culture, and society as a whole.

There are various methods and approaches to develop students' intellectual-creative thinking skills. Instead of traditional lecture-style teaching, active methods such as discussions, brainstorming sessions, case studies, group work, and project activities should be used. These methods allow students to actively participate in the learning process, develop critical thinking skills, analyze information, and generate ideas. Critical thinking is the ability to analyze information, identify contradictions and logical fallacies, and formulate one's own opinion based on evidence and facts.

Developing critical thinking in students is an important aspect of developing intellectual-creative skills. It is necessary to offer students problem-solving tasks that require not only knowledge of facts but also analysis of the situation, searching for non-standard solutions, and justifying their point of view with arguments. To develop students' creativity, you can use methods such as brainstorming, the method of focused objects, synectics, lateral thinking, and others. It is important to create conditions so that students can freely express their ideas, not be afraid to make mistakes, and experiment. Modern information technologies create wide opportunities for developing students' intellectual-creative thinking skills. These can be various online courses, platforms for collaborative work, tools for creating presentations and infographics, and much more. It is important to create an environment in the educational institution that promotes the development of intellectual-creative thinking.



This can be support for student initiatives, organization of idea competitions, conducting master classes and training sessions on creativity development, as well as creating conditions for communication and exchange of ideas between students. Developing intellectual-creative thinking skills in students is one of the priority areas of the modern educational process. This contributes not only to their scientific and professional development but also to the development of innovative ideas that are useful for society. Therefore, it is necessary to effectively use problem-based learning, creative projects, the formation of critical thinking, and interactive methods in the education system. Only in this case, students will be able not only to limit themselves to gaining knowledge but also, by developing their independent thinking and innovative approaches, become leaders in society.

From a psychological point of view, the development of intellectual-creative thinking affects the cognitive (knowledge) and motivational (stimulating) spheres of a person. In the cognitive sphere, indicators such as the speed of thinking processes, the quality of information processing, memory, and attention are improved. In the motivational sphere, qualities such as a desire to learn, curiosity, motivation to achieve success, and self-confidence are developed.

In conclusion, developing students' intellectual-creative thinking skills is an important task of modern education. The future of our students, as well as the future of our society, depends on how successfully we can develop these skills in them. By using modern teaching methods and approaches, creating a stimulating environment, and encouraging student initiatives, we can achieve high results in developing the intellectual-creative thinking of future professionals.

List of references:

- 1.The national idea of independence: basic concepts and principles, page 49.
- 2.Decree of the President of the Republic of Uzbekistan dated November 6, 2020 "On measures to develop education and science in the new period of development of Uzbekistan" PF-6108
- 3.Novshadbekova, D. (2022). Improving the methodological training of future primary school teachers for teaching educational science. Science and innovation, 1(B6), 202-205.

