



## **MODERN SCIENCE AND EDUCATION: PROBLEMS AND SOLUTIONS**

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### **A B S T R A C T**

This article discusses the problems of improving the quality of education today, their solutions and perspectives, including the improvement of curricula, training design, organization of research in accordance with the requirements of the time, the use of foreign experience in this area, professional qualities and the development of logical thinking operations.

### **K E Y W O R D S**

science, education, upbringing, curriculum, state educational standard, knowledge, skills, qualifications, competence, professional quality, logical thinking, method, technology, etc.

It is known that the training of qualified specialists who contribute to the socio-economic development of the country directly depends on the development of the education system, and in this regard, raising an independent thinking, creative, entrepreneurial, initiative person is the priority of state policy today. remains one of his complaints. These tasks are reflected in a number of decrees and decisions [1-4] of the President of our republic. There is a need for modern knowledge and new approaches in the socio-economic development of the country. Therefore, in order to increase the quality of education, it is necessary to organize the educational process in accordance with the requirements of the time, improve the state education standard and educational programs, create new generation educational literature, use modern innovative pedagogical and information technologies, and eliminate existing problems. doing is the guarantee of our future success.

Today, when science and technology are developing at a rapid pace, the amount of scientific knowledge, understanding and imagination is increasing dramatically. This, on the one hand, ensures its differentiation due to the development of new fields of science and technology, and on the other hand, the process of integration between sciences is created. In such conditions, the demand for qualified pedagogues increases, it is necessary to train creative pedagogues who have mastered the fundamental foundations of science, pedagogy and psychology methods, have high professional training and can apply modern innovative pedagogical and information technologies in practice. Currently, the use of pedagogical innovations in the educational process is a global trend of world development. This, in turn, requires paying special attention to the systematic introduction of innovations into the field of education, due to the rapid development of the modernization process in the country. However, the level of implementation of pedagogical scientific research on the

introduction of new content, form, methods and tools of teaching in this field cannot be considered sufficient at the moment. In fact, when introducing the updated education system, it is important for every pedagogue to regularly study educational innovations and acquire the skills to consistently apply them in their work. Today, it is necessary to quickly introduce innovations in the field of science and technology into the content of the curriculum, and through this, the ground is prepared for the formation of modern knowledge. In addition, modern teaching technologies, methodological approaches related to them create favorable conditions for deep and solid formation of necessary knowledge, important laws and many fundamental concepts in future pedagogues. In order to improve the quality of education, pedagogues should adapt their knowledge and professional skills to the requirements of the time, use innovative educational technologies wisely in teaching, use pedagogical and information technologies of each subject for the effectiveness of organized classes, and better mastering by the learner. it is required to ensure its passage. One of the urgent tasks is to implement the education based on the competence approach in teaching, to be able to apply the acquired knowledge in life, to choose a profession, to get independent education, and to develop learning and learning competencies.

Today, in our republic, important and meritorious works are being carried out in order to modernize the education system, introduce innovative teaching technologies, train young people with professional qualities such as independence, creativity, initiative, entrepreneurship, and encourage pedagogues. However, the results of analysis and study show that there are still problems in our education system. Including: - lack of qualified pedagogues in educational institutions, the fact that the reforms in the field are not fully taken into account in the creation of curricula and programs implemented in their training, and they are outdated in content; - lack of systematic and innovative activities in strengthening the theoretical and practical knowledge of students and putting creative ideas of talented young people into practice; - that pedagogues do not organize educational sessions aimed at developing the intellectual abilities of students; - lack of widespread implementation of innovative pedagogical technologies and methods by pedagogues; - mutual cooperation between educational institutions is not fully established; - students are rarely given the opportunity to argue and express their opinion during the training session; it is felt that in some trainings, pedagogues are limited to repeating old information, their lack of training, low level of knowledge and profession, and their competence is insufficient. Eliminating these problems requires the regular training of pedagogues, the use of alternative methods, and the implementation of tasks such as continuous research. This, in turn, places great responsibility on the pedagogue.

It is now very important to revise the content and structure of the curriculum. He should act as a "mirror" for the pedagogue. Because a person looks at the mirror and sees his whole body. That's why the pedagogue, depending on the curriculum of his subject, remembers his entire activity, the course of the process that he should convey to the students during the training session, the tasks that he should perform in it [7]. However, current science programs have their own shortcomings: including: - the relevance and importance of science is not fully revealed in the introduction; - lack of in-depth, clear clarification or excessive number of goals and tasks in science teaching; - that the qualification requirements for students are not formed based on today's requirements, that cooperation with manufacturers is not well established in this regard; - lack of development of criteria and indicators that determine the level of qualification requirements in transition from course to course or graduates; - when developing qualification requirements, factors such as professional qualities of learners

(independence, creativity, entrepreneurship, initiative) and logical thinking operations (ability to analyze, classify, compare, compare, generalize, draw conclusions, implement, etc.) lack of attention; - the need to update and change the structure of educational programs; - the need to include mechanisms for designing the educational process; - incorrect interpretation of pedagogical and information technologies and independent education; - the list of used literature is limited by years, etc. By eliminating the above shortcomings, we will achieve the creation of modern educational programs.

For this, I believe that the following tasks should be carried out: - first, in the introductory part of the science program, special attention should be paid to revealing the relevance and importance of the taught subject, its goals and tasks, and what it needs in the future. It would be expedient to explain this by taking into account real-life examples of science, science and technology, and achievements in the fields of production.

This will certainly help to awaken the initial motivation for science in students, and the emergence of buds of confidence in the future; - secondly, big changes are taking place in social and economic spheres today [3]. A lot of new equipment and technologies, investments are coming to our republic from abroad, besides, they are being produced in our country, and new enterprises and production organizations are being established. Of course, tomorrow they need a specialist who can work independently and manage them. That's why today we are training our specialists for the future by studying the modern qualification requirements set by them clearly, correctly, without fuss, without working in the "from us - to the owner" style, and if necessary, this enterprise and it is necessary to go to the organizations, see them with your own eyes, and form them in cooperation with their leading and experienced specialists.

Improving the quality of education is the only correct way of development of New Uzbekistan [5]. Eliminating the existing shortcomings and problems in improving the quality of education, clearly defining the goals and tasks in this way, for this in the world the use of recognized experiences, the use of information technologies in combination with pedagogical technologies serves to improve the quality of professional training of future specialists, which increases the efficiency of the process. Clarification of educational goals, use of various technologies and methods used in teaching and mastering processes, focusing on content leads to the development and improvement of the activities of educational institutions.

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