



PEDAGOGICAL FEATURES OF INCREASING THE QUALITY AND EFFICIENCY OF EDUCATION ON THE BASIS OF INTEGRATIVE APPROACH

Jarkinov Davron Umaralievich

Doctoral student of Andijan State University

e-mail: alfargoniy.uz@gmail.com

Article history:	Abstract:
Received: May 1 st 2021 Accepted: May 20 th 2021 Published: June 17 th 2021	The article had pedagogical features of improving the quality and effectiveness of education based on an integrative approach. It has been investigated that the integration of theoretical and practical education requires the acquisition of practical skills and competencies along with theoretical knowledge at the same time. In addition, the interdisciplinary integration of students in higher education institutions is reflected in the scientific conclusions on the important tasks in improving the quality of scientific, theoretical and practical training of students. The problems of implementation in the application of the interdisciplinary approach are solved at each stage not only the program, but also the issues of education and development of modern students.
Keywords: Integrative approach, theoretical and practical education, technical means, integration of sciences, interactive methods, creative experience, state educational standards.	

INTRODUCTION

The organization of the educational process is an activity based on mutual cooperation, an integrated approach and the exchange of creative experiences. In order to achieve the organization of effective teaching in education, it is necessary to introduce innovative forms of teaching in several types of education. One of the most effective ways to improve the quality and effectiveness of education is through an integrated approach. The more the acquired knowledge and skills form an integrative connection with the existing data in practice, the more effective it will be mastered and put into practice. In this sense, the application of innovative integrative approaches in higher technical education in the educational process provides an opportunity to increase the scientific creativity of students, increase independent intellectual analysis and improve the quality of education.

Today, there is a growing focus in the education system on improving the quality and efficiency of education based on an integrated approach. The modern type of integration of sciences is associated with the emergence of scientific forms and means of pedagogy. It has been studied that the integration of theoretical and practical education in educational institutions requires the acquisition of practical skills and competencies along with theoretical knowledge at the same time. In the process of integrating academic disciplines, separate disciplines merge into each other and become a "single" discipline. A single science is not a single science, but a science in which the sciences can be somewhat close and interconnected.

The following are the main factors influencing the basics of integration of the content of the subject in higher technical education in the field of sewing, architecture, mining, metallurgy and other specialties and technological education:

- constant changes in state educational standards;
- Advances in science and technology;
- Simultaneous research of curricula and programs in various disciplines in the field of technical education;

In the field of higher technical education, classes of various specialties are integrated in the process of pedagogical practice.

The development of students' personalities in the field of higher technical education is one of the main means of generating their deep knowledge and moral qualities - the content of education in an educational institution. Qualitative improvement of the content of education in pedagogy today is impossible without a new direction - pedagogical innovation.

The use of methods of imparting knowledge on the basis of new pedagogical technologies through the integration of theoretical and practical lessons in the field of higher technical education gives good results. In this case, the goal of the lesson is achieved through the active participation of teachers and students in the learning process. Several advantages of integrated teaching include the fact that the knowledge acquired by students in each subject is related to each other, that is, the combination of fundamental and practical knowledge increases the

student's interest in science and the profession, the search for answers in real life; the development of students' thinking skills, the development of independent work skills, the learning of students to apply their knowledge and skills in a specific situation.

The development of innovative solutions for the development of creative activity of students is important not only in pedagogical science, but also in the socio-economic development of our society as a whole. The level of modern socio-economic development, along with the general educational preparation of students, places high demands on their general professional and creative skills. The creative person is distinguished by the fact that he has acquired knowledge in various fields and can apply them in new relationships. Such individuals approach the creative application of knowledge and skills with a full understanding of not only the purpose of achieving the goal, but also the motives and methods of achieving it.

Active and interactive methods of teaching, including the use of complex computer programs and special laboratory equipment, are very important for students of higher technical education. Every year in the field of higher technical education new disciplines appear, aimed at solving a narrow range of problems. This is not surprising, because the rapidly developing industry and economy need to change the minds of the people and humanity to make new discoveries. It should also be noted that the diagnosis of students' knowledge, which they acquire in interdisciplinary communication sessions, should be done regularly at these intermediate stages - checkpoints and where knowledge testing is planned - to the final point. Thus, professional activity is justified by interdisciplinary integration, if students of technical higher education institutions perform integration tasks with regular use and practice, only practical training will strengthen the knowledge gained in the study of theoretical materials. When performing this or that laboratory work, solving a complex learning task, the student acquires the practical skills necessary for a successful professional activity. The graduate has a perfect mastery of professional skills, has the opportunity to successfully compete in the labor market, allows the creative use of professional skills, allows to achieve the highest quantity and quality. In educational (training) programs, separate interdisciplinary communication can not be the only goal, a single integrated approach is important, with the help of which the idea of interdisciplinary is realized in the whole educational process. Representatives of pedagogical sciences believe that interdisciplinary integration in the learning process can be implemented through the use of active and interactive pedagogical methods, technical means and organizational forms of education listed above.

MATERIALS AND METHODS

The Strategy of Actions for the Further Development of the Republic of Uzbekistan prioritizes further improvement of the system of continuing education, raising it to a higher level, increasing access to quality education services, training highly qualified personnel in accordance with modern needs of the labor market and improving the quality and efficiency of higher education. The program of complex development of the higher education system for 2017-2021 also serves as an important methodological basis for raising the system of vocational training in higher education institutions to a new level.

The laws and trends of formation and development of the integrative approach, problems of preparation of future specialists for professional activity on the basis of integrative education and theoretical, conceptual and technological bases of pedagogical diagnostics of professional training are studied in scientific works of RH Djuraev, AR Khodjabaev and others.

RESULTS AND DISCUSSION

Today's innovations in the field of education, improving the quality and effectiveness of education on the basis of an integrated approach, are the pedagogical features of students based on non-traditional teaching methods. Independent learning tasks, integrative approaches, problem-solving teaching methods aimed at solving a problem situation, and teaching materials based on media are important tools for the effective organization of education. Through the methods of teaching in this way, it is possible to properly organize the education of students of higher technical education, to develop logical and critical thinking, to reveal their existing abilities. This will be an integrative pedagogical activity that requires self-teacher-student collaboration. In modern conditions, the requirements for the student play a special role not only in professional knowledge, skills and abilities, but also in their social, professional and personal development. Improving professional competence in students of higher technical education is one of the important indicators of training them as competitive personnel. In particular, the quality of person-centered education requires students of higher technical education to realize their ability to self-development, self-education and self-growth. The educational process of higher technical education students in higher education institutions allows students to acquire knowledge about the individual and society, history, spirituality and enlightenment, acquire basic knowledge, focus on research, improve the basics of professional knowledge, expand creativity. It is also about ensuring the right to education and the continuation of creative activity. Overcoming social difficulties on the basis of national feelings and adaptation to the national, psychological and pedagogical bases of personal development of students of higher technical education, the priority of the social environment as a characteristic feature of the educational process, attitude to society and professional approach to society; based on theoretical approaches and social ideas on the development of tendencies. Any person acquires a certain activity experience as a result of the development of professional knowledge. That is why a person should create, enrich and supplement the experience of professional activity with his creativity and competence. Higher technical education students should acquire such

experiences in educational institutions and enrich them throughout their lives. The student's personality should always be able to demonstrate creative activity skills that are important. Only then can he show his creative activity during his education. In the educational process, the cognitive activity of students of higher technical education and, on this basis, the means of supporting their creative aspirations will be aimed at the following goals:

- general pedagogical support of all students, ie attentive, good attitude to students, their involvement in planning the learning process, creating a learning environment, active content of education, educational games, colorful creative work, positive assessment of their achievements, use of dialogic communication;
- individual-personal support, identification of individual problems of students, diagnosis of development, upbringing, education, monitoring the development of each student, the need for pedagogical assistance and support based on their individual characteristics. Also, in the development of creative thinking of learners, problem-based learning, unlike other types of education, forms a system of knowledge, skills and abilities in learners, as well as forms in them high mental activity, self-development.

CONCLUSION

Based on the above, it should be noted that the quality of education for students of higher technical education requires a pedagogical approach to the quality and effectiveness of education on the basis of an integrative approach to fully study the development of professional competence, because the integrative approach the possibility of detection arises.

Conclusion. Interdisciplinary integration of higher education students plays an important role in improving the quality of scientific, theoretical and practical training of students, as the problems of implementation of the interdisciplinary approach are solved at each stage not only the curriculum, but also the education and development of modern students. Through the prism of professional competence, the foundation is laid, integrated solutions to problems that arise in real life are necessary for all graduates. Versatile (universal), creative, developing future specialist (professional) personality can be formed only in the conditions of an integral pedagogical process, professional competence of the engineer - methods and goals based on the general principles of each stage are built for the ultimate goal. That is why interdisciplinary integration is an important condition for the education and upbringing of students of technical higher education institutions.

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