

Development of Competence of Teachers of School Biology Regarding the Use of the Distance Learning Platform

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Abstract: The article describes the importance of research and analysis of school biology teachers in improving the quality and effectiveness of education in the system of continuing education based on the distance learning platform, the application of new approaches to distance and traditional learning.

Keywords: continuing education process, distance learning, advanced training, innovative education, ZOOM program, innovative pedagogical technology, ICT.

Развитие Компетентности Школьных Учителей Биологии В Использовании Платформы Дистанционного Обучения.

Аннотация: В статье описывается важность исследований и анализа учителей школьной биологии в повышении качества и эффективности обучения в системе непрерывного образования на базе платформы дистанционного обучения, применении новых подходов к дистанционному и традиционному обучению.

Ключевые слова: непрерывный образовательный процесс, дистанционное обучение, повышение квалификации, инновационное образование, программа ZOOM, инновационные педагогические технологии, ИКТ.

Despite the pandemic in the world and the economic crisis associated with it, the head of our country pays special attention to school education. Education is a matter of life-matter. At the video Assembly held on October 30 under the chairmanship of President Shavkat Mirziyoyev, the issues of improving the educational and educational system in our country, accelerating the development of the field of science were widely discussed. In particular, ensuring the harmony of higher education with school education was appointed as one of the main goals. Each institution of Higher Education, based on its master directions, was given a lot of attention to



closely promote the development of the skills of school teachers. As a way to ensure the implementation of these tasks, the Faculty of “Natural Sciences” of Chirchik State Pedagogical University is also providing scientific and methodological assistance to teachers of biology of Secondary Secondary Secondary Secondary Schools affiliated with the Tashkent region ICRC and to pedagogical personnel. With this cooperation, further development of public education in the Tashkent region, increase the coverage of students in higher education a great contribution will be made.

At all the last meetings held by our president, the great task of creating the foundation of the third renaissance in our country was laid, marked. As they noted, it is an honorable duty of all citizens, including US educators, to turn and realize the noble ideas that the threshold of a new Uzbekistan begins with school into a nationwide movement. Also, improving the quality of education today is one of our most important tasks. In his speeches, the head of state stressed the need to create a methodology that, first of all, encourages students in schools not only to memorize, but also to think. The Finnish experience in this regard was given as an example. This country is one of the most advanced in the world in natural sciences and mathematics. “If the methodology of teaching at school does not change, both the quality of education and the content and the environment will not change,” Shavkat Mirziyoyev said. The problem in schools is the low quality of education, the material and technical base, and at the same time the training of specialists who have graduated from higher education is not at the level of demand. Now the system of higher education, preschool education and public education works in a harmonious way. In modern conditions, where the introduction of information computer technology into the higher education system is very relevant, the number of educational institutions is growing, which fill the forms of distance and traditional education with new methods and technologies. The distance learning form is considered the most mass and convenient form.

Given the new approaches, methods and teaching tools inherent in distance learning, teachers have difficulty mastering new forms of interaction. Therefore, the question arises about the readiness of higher educational institutions to use this form of Education. The answer to this question is not only the readiness of the technical equipment of higher educational institutions, but also the readiness of the composition of professors and teachers to provide training and education in the form of distance learning. Distance learning is understood today as technology, not a form of Education. Multimedia equipment, which is the technical organizer of many higher educational institutions, is intended to be improved, equipped with the latest software, and communication networks and channels are transferred and configured. Many teachers who are not directly familiar with the distance learning form consider this form of teaching to be the process of transmitting electronic learning materials over the internet. However, teaching without a teacher is not possible. Distance learning is the process by which participants in the educational process interact and interact with the educational environment through various multimedia technologies. The leaders of some higher education institutions believe that the distance learning form will ease the work of teachers.

In fact, the educational process in the form of distance learning requires a lot of time, as well as an individual approach to this process. By itself, this implies a process of individualization



when composing more educational materials, and preparation for this process takes a lot of time. In addition, there are different models of distance learning. They differ in the methodology of conducting training, in the forms of interoperability, and also differed in the composition and presentation of educational materials. The essence of the material should be convenient and understandable to understand. To develop such materials, it is necessary to attract specialists, Methodists, information technology specialists.

The teacher should be prepared in such a way that he can combine all these functions in himself. Currently, the dynamics of the growth and development of knowledge in the disciplines, in the field of modern methods of organizing training and information technology, as well as in the fields of pedagogy and psychology, biology are observed. There is no doubt that this trend will be maintained in the near future. In order not to be hopelessly lagged in the competitive struggle under these conditions, in addition to the introduction of promising tools and methods of teaching technology, the need arises to coordinate the level of training of teachers with the requirements of tomorrow, and not today. Taking into account the speed of change in requirements, teacher training should be a continuous and continuous process.

This process is a constant update of information training technologies related. Accelerated progress in all areas of knowledge leads to the fact that a large part of the information contained in the current educational materials quickly loses its relevance and needs to be updated. Therefore, it is necessary to pay attention to the latest achievements in the field of Biology in the process of improving the skills of teachers, as well as to the mechanisms for introducing new forms and means of teaching into the educational process. As you can see, the implementation of a form of distance learning without special training of teachers is a difficult process. It will be necessary to develop a program that will cover most of the topics that apply to distance learning. This program should include the basis of the legislation, computer literacy, the application of information systems used in the form of distance learning, as well as the psychological and pedagogical features of the implementation of the distance learning form. After a successful study of the teacher training program, it will be necessary to undergo certification in the subject of your choice as the final control. To positively solve these issues, the following works are carried out by the Department of genetics and evolutionary biology of the Faculty of Natural Sciences of Chirchik State Pedagogical University.

In accordance with the order of the Ministry of higher and secondary special education №87 - 03-5020 of December 01, 2020, courses on improving the skills in biology organized for teachers of Secondary Education schools of the Tashkent region were established, during this course teachers of biology of General secondary education schools of the Tashkent region were established. Classes were passed through a remote online platform and using the ZOOM program. Based on the results of the survey, some of the teachers will be able to use a computer on average Darja as part of the application of software tools of distance learning. Nevertheless, some teachers face a number of challenges in jaraèni to work. Based on the studies carried out, the author identified the difficulties faced by teachers in the distance learning system, as well as their consequences:

The existing gaps in the knowledge level and methodology of school teachers were determined by survey. It stressed that there will be difficulties in passing on the topics of solving issues of



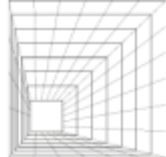
school teachers in biology related to mitosis, meiosis, gametogenesis, nucleic acids and genetics. Therefore, master classes were organized by a Methodist teacher attached from the Institute. The need to use innovative educational technologies as an effective means of improving the quality of the educational Jaran, puts the following tasks in the system of professional development:

- Teaching teachers to the ideology of distance education, as well as study of the organizational and technological environment as an integral large system;
- Promising information of education by teachers continuous mastering of technologies in educational jaraène;
- Continuous study of recent achievements in biology;
- Continuous study of recent achievements in biology.

In the context of distance learning, a large part of teachers face certain difficulties that will become a serious obstacle in the organization of a form of distance learning. However, the elimination of most of the difficulties with the passage of a special tie can be reduced. In this, it is possible to significantly accelerate the adaptation of students and teachers to new forms of Organization of training. At the same time, experimental confirmation of the need to organize the preparation of teachers for distance learning conditions was obtained. Obviously, with the growing popularity of distance online education, the number of specialized universities will also increase. Now prestigious educational institutions are increasingly opening new distance programs, and the quality of existing ones is constantly improving. The measures taken in higher educational institutions and the measures implemented in general make it possible to organize the educational jaraèn at its level and help to actively work on it, improve professional skills and develop the skills of a modern teacher to a certain extent in the conditions of active development and implementation of digital and electronic technologies in all aspects of society.

References

1. 23 under the presidency of the president of the Republic of Uzbekistan Shavkat Mirziyoyev on August, his speech at the videolector meeting dedicated to the issues of developing the system of public education, improving the qualifications of educators and their prestige in society, raising the morale of the generation of Osh. The word ring newspaper August 24, 2019.
2. Decree No. 4947 of the president of the Republic of Uzbekistan “on the strategy of Action for the further development of the Republic of Uzbekistan” dated February 7, 2017. ” Collection of legislation of the Republic of Uzbekistan”, 2017. No. 6, p. 70.
3. Abdukodirov A.A, Pardaev A.X. Theory and methodology of technologizing education jaraèni. Tutorial. Tashkent - ”Science and technology”. – 2012, 104 b.
4. Azizhoujaeva N.N. Pedagogical technologies in improving the effectiveness of Education jaraè. Higher education students and advanced training coursesa methodological guide for his listeners. Tashkent 2007.
5. Zakirov D.U., Nurmetov.Kh.S., Secondary school is the main source of environmental education. Academic research in the field of education



6. Sciences (ARES) // Chirchik, 2021, No. 2, pp.28-316. U.N.Khojamqulov. School-laboratory methodological manual.- Chirch. 2019.160 b.
7. “In the current conditions, the training of highly qualified personnel in training issues of application of modern systems and technologies” Republic scientific and methodological conference lecture series.
8. [https://www.researchgate.net/publication/348916562_MASOFAVIY_TA LIM_System](https://www.researchgate.net/publication/348916562_MASOFAVIY_TA_LIM_System)
9. <https://www.uzedu.uz/uploads/2020/08/pida-tadqiqotida-kreativ-fikrlashni-assessment-scope>