

# Algorithmic Differences of Preparation of Future Primary School Teachers for Intellectual Activity

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## ABSTRACT

This article discusses the issue of scientific and methodological substantiation of the algorithmic system of preparation of future primary school teachers for intellectual activity.

**KEYWORDS:** *intellectual; preparation; activity; elementary school; the future; teacher; algorithmic; sequence; science-education-practice; science; scientific activity; development; pedagogical technologies; innovative; advanced*

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- According to this research, the preparation of future primary school teachers for intellectual and professional activities was carried out in the following algorithmic sequence:
- Training of future primary school teachers, taking into account the Law of the Republic of Uzbekistan "On Science and Creative Activity".
- The main purpose of this direction is to promote the basics and achievements of science and technology in the information space, as well as to identify measures to promote relevant activities in the field of science and research.
- Creative activity in this direction is carried out in the following sequence:
  - to achieve the training of innovatively developed primary school teachers through the development of science and research activities;
  - identification of priorities for the development of science and innovative technologies in the training of future primary school teachers and constant attention to the targeted allocation of appropriate resources;
  - to develop future state science programs in future primary school teachers, to encourage them to support well-founded initiatives and projects;
  - to pay constant attention to inspiring future primary school teachers to support public-private partnerships in science and research activities;
  - to create the environment for future primary school teachers to pursue science and its attractiveness, to involve young people in scientific activities, to prepare young talents for selection;
  - protection of the rights of future primary school teachers to intellectual property;

- training of future primary school teachers to optimize the funding of science and research activities;

to train future primary school teachers to ensure the interdependence of the system "Science-Education-Practice" and to develop criteria for increasing interest in it;

- to train future primary school teachers to ensure that the field of science and creative activity is inextricably linked with the information space;

to train future primary school teachers in the analytical study of sources for the development of international cooperation in science and research activities, their use in practice, etc. [1].

- In this direction, the social awareness of future primary school teachers will be the main focus.

- "Social knowledge is, first of all, prestige, that is, the scientific and pedagogical staff (teachers-authors) have social, certain ethical principles, the ability to form their own independent opinions based on personal experience and observations, to influence others, interpersonal and individual. it is a set of skills such as the ability to improve the environment between the individual and the group" [8].

- To prepare future primary school teachers to develop teaching and learning materials.

- The main goal of this direction is to achieve continuous and integrated use of teaching and learning materials in the process of training future primary school teachers, to achieve the priority of future training policy, ie to meet the socio-economic conditions, to achieve qualitative changes in education and high efficiency. Creative work on the creation of a database of scientific, technical and informational data on the development of scientific methods to achieve quality and efficiency in state educational standards, the preparation of promising scientific and methodological developments in the selection of optimal options in this area.

- The creative activity in this direction is carried out in the following sequence:

- state educational standards for the training of future primary school teachers, normative and legal documents on primary school: curricula; working curricula; curricula; working training programs; calendar curricula; text of lectures; instructions and guidelines for the preparation of course work; preparation of guidelines and instructions from didactic materials (didactic

information, reference information, handouts, slides, virtual stands, etc.) to ensure ease of use in practice;

- Creative activity in this direction is carried out mainly on the basis of the following sequence:

formation of a continuous and integrated information system of basic (propaedeutic) information on the training of future primary school teachers and the development of effective ways to use them in practice;

- to form the updated (modernized) content of education in the subjects related to the training of future primary school teachers, ie directly related to the formation of their professional activity, and to systematize them on the content of supplemented, enriched and improved education;

to be able to obtain new information on specialties (specialties) and special subjects in the training of future primary school teachers from the INTERNET and to be able to independently analyze the new data (literature) and information, to use them in professional activities;

- Regularly acquaint with the literature on the introduction of innovative and integrative education and multimedia products for the training of future primary school teachers and achieve their regular use in practical and professional activities;

- constant attention to the requirements of state education policies and their targeted use in the training of future primary school teachers, etc.

In working in this direction, the requirements for the professional knowledge of future primary school teachers should be our main focus. This is an innovative method of independent and conscious finding of the optimal (most convenient and optimal) solution to the problems encountered during the practical-professional activities, the ability of the future primary school teacher to have scientifically based knowledge, skills and abilities in the curriculum, to conduct methodologically based practical activities. and a set of skills to master the technology.

Preparing future primary school teachers for creative activities.

The main purpose of this course is to teach future primary school teachers the need and possibility of innovation, to prepare them to express the problem, to use the knowledge needed to advance ideas and hypotheses, to teach theoretical and practical confirmation of hypotheses, to solve problems.

- The creative approach in this direction is carried out in the following sequence:

to constantly pay attention to what are the perspective and current problems in the training of future primary school teachers;

Regular adjustment (adjustment) of the training of future primary school teachers on the basis of modern requirements, the latest achievements of science and technology;

- Regularly implement an innovative approach to improving the teaching of specialties (specialties) and special subjects in the training of future primary school teachers, with a strong focus on advanced technologies and innovative ideas for the development of society;

- to pay constant attention to the participation of future primary school teachers in science olympiads, competitions and exhibitions related to various professional activities;

- to pay attention to the effective and targeted use of innovative-integrative education (innovative program, innovative methods and technologies) in the training of future primary school teachers and to create a methodological basis for their creative work in this field, etc.

- creation of an environment of primary education process for the training of future primary school teachers with modern pedagogical technologies and innovative educational technologies, as well as digital technologies;

- establishment of a special methodological center at the educational institution to ensure that future primary school teachers can apply the process of formation of information culture in the educational process on the basis of full computer literacy;

- electronic textbooks: electronic textbook; development of methods for the preparation of electronic textbooks, electronic portfolios and electronic encyclopedias on the subjects taught and their use in the practice of training future primary school teachers;

- to achieve greater involvement of future primary school teachers with intellectual potential in the creation of electronic textbooks in the activities of the Center for Innovative and Integrative Education at the educational institution;

- development of digital educational technologies for the training of future primary school teachers in specialties and special subjects;

- to achieve continuous improvement of computer literacy levels of future primary school teachers in accordance with modern requirements, as almost all aspects of our lives depend on the use of digital technologies;

- preparation of a database called "didactic portfolio" for the training of future primary school teachers;

- organization of collections for future primary school teachers to collect and use materials related to primary education using the INTERNET, etc.

- In this direction, more attention will be paid to the methodological knowledge and information culture of future primary school teachers. This is because they are guaranteed the opportunity to train an innovatively developed future primary school teacher.

To prepare future primary school teachers to improve their professional knowledge.

- The main purpose of this direction is to identify and assess the level of professional training of future primary school teachers and to carry out creative activities to develop the knowledge, skills and abilities necessary for their professional activity.

- When working in this field, more attention should be paid to preparing future primary school teachers to take a creative approach. This is because the creative approach consists of modern and promising approaches in pedagogy. It allows the researcher to find optimal solutions to the problems that arise, as well as didactic support to the researcher to find a solution to the problem independently, and can even help him to open new directions in finding a research solution.

- With the help of a creative approach, the optimal solution of problems will be solved, there will be an opportunity to develop educational activities, to discover the laws of interdisciplinary relations, to advance and test scientific hypotheses, to create optimal options for modeling, to organize experiments. and they are taught to develop the analysis of the results, to form creative and analytical thinking about the source and process of research, to achieve a solid formation of personal opinion and, most importantly, to create ample opportunities to make the right decisions.

To prepare future primary school teachers to be spiritually mature.

The main goal of this direction is to implement a creative approach to the conscious implementation of noble ideas, behaviors and actions, which are formed on the basis of professional knowledge, professional skills and abilities that should be acquired by future primary school teachers.

- Creative activity in this direction is carried out mainly on the basis of the following sequence:
- to inculcate in the minds of future primary school teachers excellent information about the spiritually and professionally mature professionals and their role and prestige in the development of society;
- -to pay constant attention to the training of future primary school teachers as spiritually and professionally mature personnel, using the example of the lifestyle and work of leading scientists and specialists in this field;
- In the training of future primary school teachers, it is necessary to regularly use relevant information on the subjects in the curriculum from the periodicals, as well as information from the Internet;
- to ensure the effective use of information resource centers for future primary school teachers to regularly review the literature on new professional activities;
- to pay constant attention to the training of a modern future primary school teacher who is professionally, spiritually and morally cultured, professionally and spiritually mature, professionally and spiritually mature;
- to train and accustom future primary school teachers to develop a perfect plan for the regular organization of spiritual-professional and educational activities on spiritual-educational work and to deal with the creation of innovative methods of their conduct, and so on.
- In the creative activity in this direction, the main focus was on the spiritual and moral culture of future primary school teachers.
- Thus, the algorithmic sequence of preparation of future primary school teachers for intellectual activity and the directions of creative work on them show that the problem of developing a methodological framework for preparing them for intellectual and professional activity is one of the most relevant and promising areas of pedagogical research.
- Research in this area has been conducted for several years (since 2015) at the Faculty of

Primary Education of Jizzakh State Pedagogical Institute named after Abdulla Qodiri and the following scientific results have been obtained:

- theoretical and methodological bases of preparing future primary school teachers for innovative activities. A monograph has been prepared in this area and it is used in the teaching of the subject "Pedagogy of primary education, innovation, integration" for the fourth year of the faculty "Primary Education" [4];
- Цивилизацион педагогик тизимлар негизида бўлажак бошланғич синф ўқитувчиларини тайёрлашни такомиллаштириш. Бу бўйича монография тайёрланди ва ундан бошланғич таълим йўналишидаги “Бошланғич таълим методологияси” фанини ўқитишда фойдаланилмоқда. [5];
- Интеллектуаллаштирилган ўқитиш тизимлари негизида бўлажак ўқитувчиларни интеллектуал фаолиятга тайёрлаш. Бу бўйича ҳам монография тайёрланган ва ундан магистратура таълими йўналишидаги “Илмий тадқиқот методологияси” фанини ўқитишда фойдаланилмоқда [6];

On the basis of research in this area, an updated textbook on "Methodology of Primary Education" was prepared for the master's degree [7].

Based on this research, it can be concluded that by following the algorithmic sequence of preparation of future primary school teachers for intellectual activity, it is possible to train them as innovative, competitive and intellectually mature personnel, without compromising the international and national requirements for modern teachers. we will have done.

The algorithmic sequence of preparation of future primary school teachers for intellectual activity has a methodological (universal) character. Therefore, we recommend its use in the training of specialists in other areas of intellectual and professional activity, and in its use it is necessary to adapt only the considered sequence to the problem statement.

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