

## **VERBESSERUNG DER METHODE ZUR VORBEREITUNG VON SCHÜLERN AUF DIE BERUFLICHE TÄTIGKEIT DURCH METHODEN ZUR ORGANISATION UNABHÄNGIGER BILDUNG**

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**Zusammenfassung:** Der Artikel ist der experimentellen Arbeit der vom Forscher vorbereiteten Dissertation gewidmet. Es beschreibt die Forschungsmethoden des Autors. Die Ergebnisse der Forschung wurden mathematisch und statistisch analysiert und als Ergebnis wurden die endgültigen.

**Schlussfolgerungen präsentiert.** Schlüsselwörter: selbstständige Lernmethoden, berufliche Tätigkeit, pädagogische Praxis, experimentelle Tests.

## **DISSERTATION WORK ON IMPROVING THE METHODOLOGY OF PREPARING STUDENTS FOR PROFESSIONAL ACTIVITY THROUGH METHODS OF ORGANIZING INDEPENDENT EDUCATION**

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**Abstract:** The article is devoted to the experimental work of the dissertation prepared by the researcher. It describes the research methods carried out by the author. The results of the research were analyzed mathematically and statistically, and the final conclusions were presented as a result.

**Keywords:** Independent learning methods, professional activity, educational practice, experimental tests.

### **INTRODUCTION**

Today, the essence of independent education has not been sufficiently researched based on the competence approach and from the point of view of improving the quality of preparation for professional activity, a unified approach to the organization and implementation of this process has not been formed, creativity in independence, and the possibilities of scientific research complexes remain among the areas that have not been studied enough. In the professional education system, the methodological basis of improving the quality of preparation for professional activity through the development of independent education is not worked out and does not exist, causing problems in preparing students for independent life.

By improving the methods of independent education, these pilot studies are aimed at forming students' independence, developing the ability to think freely, self-development, continuous work on them, the ability to search for updated information and freely use information and communication tools, and in the process of preparing for their professional activities. It is aimed at demonstrating a number of features such as being able to independently create tasks and introducing innovations.

### **THEORETICAL BASIS**

The purpose of the experimental work was to determine the level of effective use of pedagogical conditions that enable the development of the competences of preparing students for professional activities by improving independent learning methods in the teaching of the subject "Elementary computer literacy at MTT" among students studying in the "Educator" direction of pedagogical colleges in our country.

In order to achieve the intended goal, the following tasks were solved during the research: professional training of students in the educational process based on the study of educational and regulatory documents (State educational standard, curriculum, teaching materials, etc.) organization of quality improvement processes, study and generalization of theoretical information; using questionnaires to determine the information about the mastery of the basic concepts of the process of organization of the educational process based on the development of the competences of the students studying in the direction of "Educator".

In order to apply the proposed model and methodology within the framework of the research, the experimental work was carried out in Tashkent, Boka, New Land and Gulistan pedagogical colleges in 2020, 2021-2022 in the following practical stages:

In order to accurately determine the effectiveness of experimental work and the dynamic growth of results, 375 respondents involved in experimental work were divided into two groups based on free choice, i.e. experimental and control groups. 185 respondents were assigned to experimental groups and 190 respondents to control groups.

In the process of interactive teaching in experimental groups, research was conducted based on the methodology intended to direct students to independent learning. Based on role-playing games, pedagogical problems and exercises, group, small group and individual trainings, conversation, lectures, and seminars were organized. These trainings for students and teaching staff were conducted in special auditoriums equipped with educational and technical tools. The results of the emphasizing, formative and final tests and their dynamic growth were experimentally studied and analyzed by "independent experts" and the researcher.

The first stage of pedagogical experiment-testing is the experiment-research stage (2019-2020 academic year) in the process of training educators in the direction of "Educator", a set of conditions for pedagogical activities aimed at determining the level of formation of professional competencies and skills and qualifications related to competences is organized in them. done. In order to achieve the set goal, the educational activities of the students of pedagogic colleges studying in the direction of "Pre-school education" were observed, interviews and questionnaires were conducted with them. These studies made it possible to determine the research direction and program. The scientific works of leading scientists and experienced pedagogues in our country and abroad on the research topic were analyzed and studied. In order to improve the competences of preparation for professional activity based on independent education methods, the content of practical tasks and the methods, forms and means of their implementation in the development of elementary computer literacy in children in educational practice sessions were determined, as

well as practical-methodical activities regarding the implementation of instructions, guidelines, methodical developments and tasks recommended by us. was established. With the help of direct and indirect pedagogical observation of college students' activities, organization of practical training with their participation, interviews, questionnaire survey and methods aimed at practical creative work, skills and qualifications related to professional preparation competences, professional qualities were formed in them. The level of development of competences of preparing students for professional activities by improving independent education methods among students of Pedagogical College was analyzed.

In the second stage of the pedagogical experimental work, this is the theoretical-experimental stage (2020-2021 academic year), a model for developing the competences of preparing students for professional activity by improving the independent learning methods of students studying in the "Educator" direction was designed, the methodology for the formation of competences for professional activity and its didactic supply has been developed.

In the third stage of the pedagogical pilot work, this pilot stage (2021-2022 academic year), the model of the development of independent education methods for students studying in the direction of "Educator" was tested and justified on the basis of the pilot test. The obtained results were compared with the studied initial data and hypothesis, general conclusions were drawn.

The formative stage of pedagogical experiment-testing was carried out in the process of improving the methodology of training students in the field of "Educator" at Tashkent Pedagogical College, Namangan Pedagogical College, Boka Pedagogical College and Yangier Pedagogical College. Test sites were selected and work was carried out according to the plan.

In order to determine the effectiveness of pedagogical experimental work, the respondents were assigned to experimental and control groups on an equal basis. In the experimental group, educational practical activities were carried out based on the methodology that helps to improve the competences of preparing students of the "Educator" course for professional activity through independent educational methods, and in the control groups, educational and educational work was carried out in a traditional manner. The results of the control and experimental test groups were regularly analyzed for each academic year and conclusions were drawn by comparing them to each other.

According to the research implementation program, it was envisaged to improve the competences of preparing students of the "Educator" course for professional activities through independent education methods. In this, lesson processes were conducted based on the use of methods such as "web quest", "mind mapping" proposed by us. This, in turn, made it possible to assess the effectiveness of the content of the methodology developed for teaching the subject "Initial Computer Literacy at MTT" in "Preschool Education" directions of pedagogical colleges.

Using statistical methods, we will evaluate the efficiency of mastering the content of the subject "Initial computer literacy at MTT" by future pedagogues. 30

preliminary and final control tests given to students were evaluated based on the following criteria:

The number of correctly solved tests: 26-30, (86%-100%) - "5" (excellent); 22-25 (71%-85%) - "4" (good); 17-21, (55%-70%) - "3" (satisfactory); 0-16, (0%-54%) - "2" (unsatisfied).

For this purpose, first of all, we present the results obtained from the control test conducted before the experiment.

In the 2019-2020 academic year, the results of the preliminary inspection conducted in Tashkent Pedagogical College, Boka Pedagogical College, Yangier Pedagogical College and Namangan Pedagogical College before the improvement of the subject "Initial Computer Literacy at MTT" are presented in this table.

### The results of the preliminary control test from the students of the Pedagogical College by region

Table 1

AT THE BEGINNING OF EXPERIMENT								
Groups	Number of listeners			Level of competence	Experimental group		Control group	
	Experimental group	Control group						
Tashkent Pedagogical College	28	30	5	Excellent	3	10,7%	2	6,7%
			4	Good	10	35,7%	11	36,7%
			3	Satisfactory	11	39,3%	14	46,6%
			2	Unsatisfactory	4	14,3%	3	10%
Boka Pedagogical College	58	60	5	Excellent	6	10,3%	6	10,0%
			4	Яхши	18	31,0%	19	31,7%
			3	satisfactory	26	44,8%	26	43,3%
			2	Unsatisfactory	8	13,9%	9	15,0%
Namangan Pedagogical College	47	46	5	Excellent	5	10,6%	6	13,0%
			4	Good	16	34,0%	15	32,6%
			3	Satisfactory	20	42,3%	21	45,7%
			2	Unsatisfactory	6	12,8%	4	8,7%
Yangiyer Pedagogical College	52	54	5	Excellent	7	13,5%	7	13,0%
			4	Good	16	30,8%	18	33,3%
			3	satisfactory	22	42,3%	22	40,7%
			2	Unsatisfactory	7	13,5%	7	13,0%
Total	185	190	5	Excellent	21	11,4%	21	11,1%
			4	Good	60	32,4%	63	33,2%
			3	satisfactory	79	42,7%	83	43,7%
			2	Unsatisfactory	25	13,5%	23	12,0%

In order to show the effectiveness of the subject "Initial computer literacy at MTT" improved and studied within the framework of the dissertation work, we present a statistical analysis of the students' knowledge levels as a result of pre-experiment and post-experiment control tests.

Results of the control test obtained at the end of the experiment from the students of the Pedagogical College in the regions

Table 2

**AT THE END OF EXPERIMENT**

Groups	Number of listeners			Level of competence	Experimental group		Control group	
	Experimental group	Control group						
Tashkent Pedagogical College	28	30	5	Excellent	7	25,9%	3	10,3%
			4	Good	16	59,3%	11	37,9%
			3	Satisfactory	3	11,1%	12	41,4%
			2	Unsatisfactory	1	3,7%	3	10,3%
Boka Pedagogical College	58	60	5	Excellent	15	25,9%	7	11,7%
			4	Яхши	28	48,3%	20	33,3%
			3	satisfactory	11	19,0%	26	43,3%
			2	Unsatisfactory	4	6,8	7	11,7%
Namangan Pedagogical College	47	46	5	Excellent	14	29,8%	7	15,6%
			4	Good	22	46,8%	20	44,4%
			3	Satisfactory	8	17,0%	10	22,2%
			2	Unsatisfactory	3	6,4 %	8	7,8%
Yangiyer Pedagogical College	52	54	5	Excellent	15	28,8%	7	13,0%
			4	Good	27	51,9%	21	38,9%
			3	satisfactory	7	13,5%	20	37,0%
			2	Unsatisfactory	3	5,8%	6	11,1%
<b>Total</b>	185	190	5	Excellent	51	27,7%	24	12,8%
			4	Good	93	50,5%	72	38,3%
			3	satisfactory	29	15,8%	68	36,2%
			2	Unsatisfactory	11	6,0%	24	12,7%

The information in Table 1 was analyzed using the mathematical-statistics method. In this case, the appropriate definitions and formulas were used. For the academic year of Hap Bip, information on the subject "Initial Computer Literacy at MTT" has been compiled.

**CONCLUSIONS**

1. Pedagogical colleges "Teacher" direction in teaching subjects of the educational process on the basis of independent educational methods and introduction of new pedagogical technologies made it possible for students of the "Teacher" direction to increase their interest in science, continuous acquisition of pedagogical knowledge, development of their need for practical activities; to develop research and creative abilities, to increase the possibility of integrative use of the acquired knowledge in the field of pedagogy during educational practice.

2. The evaluation of the level of improvement of the competences of the students of the "Teacher" course for professional activity through independent education methods was based on the following: the knowledge of the students of the "Teacher" course in pedagogic sciences and the methods of their application, in particular, the level of mastering the content of independent education methods and the methods of their use in the educational process; improvement of professional competences; socio-economic and pedagogical flexibility of students.

3. According to the data of the experimental research, during the teaching of the subject "Initial computer literacy at MTT" through independent education

methods, the greatest changes in the indicators of preparation for professional activity among the students in the experimental group were observed according to the following criteria: the level of knowledge, skills and qualifications in the field of pedagogy (above average); the motivational structure of the person (interest in knowledge, need); activity in the field of activity, creative approach, skills of completing assignments in educational practice classes were observed.

4. The results of the conducted experiment - the results of the test work show that the development of the competences of preparing students for professional activities by improving the methods of independent education in students has increased by 14% compared to the results obtained before the experiment. Over the entire period of the experimental work, there were high levels of changes in the experimental and control groups, but these changes in the control group were found to be less significant. The obtained results confirmed that the experimental work was effective.

5. Experiments and tests have confirmed that teaching-methodical support is important in improving the competences of preparing students of the "Educator" department for professional activity through independent education methods in teaching the subject "Initial computer literacy at MTT". The results of mathematical and statistical analyzes show that the theoretical knowledge and professional readiness of students participating in individual educational practice sessions organized on the basis of independent education methods is higher than that of students participating in traditional training.

6. The results of the experimental work conducted during the research showed that the training of the students of the "Educator" course in the subject of "Initial computer literacy at MTT" through independent educational methods and the preparation of students for professional activities was carried out on the basis of the theoretical and methodological support and methodology included in the educational process. and demonstrated that hands-on, self-directed learning sessions are effective.

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