

## ANNOTATION

**to the dissertation for the degree of (PhD) Doctor  
in the specialty "6D011400-History"  
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**Research topic:** «Theoretical and practical problems of using digital technologies in teaching the history of Kazakhstan in grades 5-7 of a modern school».

**The purpose of the study:** Determination of the methodological foundations for the development and use of a digital technologies on the history of Kazakhstan in the process of theoretical and experimental research. The methodological foundations for the development and use of a computer learning program in history are: methodical interpretation of the psychological-pedagogical, theoretical approaches to the development of digital technologies. The effective generalization of the theory and practice of developing a digital technologies on the history of Kazakhstan is explained. The goals, content, structure, approaches to the organization of the process of teaching the history of Kazakhstan, carried out with the help of a digital technologies are determined.

**Research objectives:** To achieve this goal, the following tasks were set:

- Preparation of a list of references to disclose the theoretical foundations of the use of digital technologies in the process of teaching history as a result of psychological, pedagogical and methodological analysis;
- Creation of a methodological model of a digital technologies;
- Development of a digital technologies on history based on the model of a computer training program, methods of working with it;
- Verification of the effectiveness of the model of the digital technologies created in the process.

**Research methods:** theoretical (philosophical, sociological, psychological, analysis of pedagogical and scientific-methodical literature, expert method of review, generalization, comparison); empirical (survey, interview, pedagogical control, testing, pedagogical experiment); mathematical methods of processing the results of the study - statistical methods were used.

They also make up the principles of historical science, such as scientific objectivity, concreteness, and consistency.

In the course of the dissertation research, general logical methods of description, analysis, synthesis, and comparison were used.

Based on the results of the experimental work: the findings and proposed solutions of this study help us to use the new opportunities of digital technologies and the interaction of teaching and learning. The development of activities using information and communication technologies (ICT) in the lessons of the history of Kazakhstan allows students to become educated people whose experience is valuable in society. The study is expected to bring significant changes to the curriculum and curriculum design as one of the main causes and barriers to the problem.

### **The main provisions for defense:**

The content of the study is consistent with the scientific apparatus and the use of a set of research methods. Experimental research with proof of the data obtained with the planned frequency of work, initial and final indicators with the effectiveness of their results in the educational process is provided by embedding. The control of students' knowledge in an interactive mode increases the effectiveness of learning, contributes to the realization of the full potential of the individual, cognitive, moral, creative, communicative and aesthetic capabilities, contributes to the development of intelligence, information culture of students. It is important to note that when developing strategies for using information technologies in history teaching, the emphasis is on analyzing the place and role of Internet resources in education from teaching systems or learning technologies.

1. Implementation of an active approach to teaching the subject with the help of electronic technologies; stimulation of positive motivation to study the past;

2. Improving the process of mastering the skills of cognitive activity by schoolchildren, gaining experience in independently mastering the content of education;

3. Individualization of the educational process in secondary schools;

The electronic curriculum must be drawn up in accordance with the regulatory requirements for the content of school history education and correspond to the structure and logic of the process of studying the subject;

The training profile should be based on the maximum use of the available potential of digital technologies for the programmed control of the cognitive activity of students;

1. The content of the digital technologies should be based on the optimal choice of the amount of educational material that is accessible and sufficient for conscious independent mastering of the topic, awakening a cognitive interest in history;

2. Forms, methods and techniques used in digital technologies must be active, interactive in nature, provide independent independent work of the student in mastering the content of the subject;

3. Digital technologies should provide forms for checking learning outcomes that allow diagnosing the level of mastering knowledge and skills by students and correcting the cognitive process; the program should be developed and used taking into account the patterns of studying the past at school.

### **Description of the main results of the study:**

1. The first stage (2018-2019) – on the problem of studying the theoretical basis of pedagogy, psychology, scientific and methodological literature from the point of view of analysis. The relevance of the research problem at this stage is the goals, objectives, subject, form and scientific forecast, and the criteria for checking digital educational levels are also defined.

2. The second stage (2019-2020) - a structural and functional model of the formation of students' possession of digital technologies has been developed, psychological and pedagogical conditions have been substantiated,

during the ascertaining experiment, the initial level of this quality of students has been determined.

3. The third stage (2020-2021) – materials of the experiment of students of digital technologies for students, on the basis of the dynamics of their formation are revealed. The results of the practical work carried out on the ability of students to use digital technologies, on the systematization of the scientific justification of the recommendation are summarized.

#### **Justification of the novelty and importance of the results obtained.**

1. The theory of higher school pedagogy is applicable in this work, the concept of "digital technologies ", computer training program, "information and communication technologies" is supplemented by the clarification of the essence, self-determination by this researcher.

2. A structural and functional model has been developed, consisting of components, indicators, content and methods, tools, diagnostic techniques, levels of formation of the development of digital technologies by teachers.

3. The systematic use of e-learning programs in the educational process by combining traditional teaching methods with pedagogical novelty increases the effectiveness of teaching students with different levels of training.

#### **Scientific and practical significance.**

The study of this problem has led to significant use of digital tools, especially during the pandemic. Especially during the experiment, the connectivity, the skill of teachers with students, the mobility of technology use were taken into account.

The results of the dissertation research can be used in the formation of educational modules of bachelor's and master's degree programs "History of Kazakhstan", as well as in the development of technological skills of teachers.

1. "Information competence of students" is an activity that contributes to the correct orientation of a person in the information world on the basis of critical analysis and correct evaluation of media products, Internet materials, promotes cognitive activity, critical thinking, reflection, as a result of a combination of knowledge, skills, qualities that ensure understanding of the final result of information products, their information security use, psychological stability.

2. Through information competence, the skills of search, analysis, selection, organization, transformation, storage and transmission of information, necessary information with the help of specific objects are formed. This competence provides the student with the skills to work with information in academic disciplines and fields of knowledge, as well as in the surrounding world. The results of the study in order to increase interest in the subject of the history of Kazakhstan are presented about the role of methods and digital tools that can be effectively used taking into account the age characteristics of middle-level youth students.

3. The results of the study for the purpose of interest in the subject of the history of Kazakhstan are presented about the role of methods and digital tools that can be effectively used taking into account the age characteristics of students in grades 5-7.

### **Compliance with the directions of development of science or government programs:**

The development of the problems of digital technologies of the history of Kazakhstan is based, firstly, on the general tasks of informatization of modern society. Mastering new ways for students to receive and process information using electronic means is a prerequisite for a competitive personality in market conditions.

Article 8 of the Law of the Republic of Kazakhstan "On Education" emphasizes that one of the main tasks of the education system is the introduction of new learning technologies, informatization of education, access to international global communication networks.

Currently, no branch of the economy can develop without the Internet. Therefore, the state program "Digital Kazakhstan" adopted in the country provided for the active development of human capital through digitalization efforts, the creation of an innovative economy as a tool for improving modern education of schoolchildren.

President of the Republic of Kazakhstan Kassym-Jomart Tokayev in his address to the People of Kazakhstan dated September 1, 2021 "Unity of the people and systemic reforms are a solid foundation for the prosperity of the country" noted the importance of digitalization of the education sector, linking it with quality education and commissioning the implementation of the educational project "Digital Teacher".

### **Description of the contribution of the doctoral student to the preparation of each edition: (the contribution of the author of the dissertation is shown as a percentage of the total volume of the dissertation)**

The main content of the dissertation was reflected in 7 scientific publications: Publications in journals indexed in the international database Scopus:

1. Historical Forms of Development of the Scientific Environment in Modern History Astra. Salvensis.- 2021. Vol. 52. Is. 1. pp. 337-350. E-ISSN: 2393-4727. <https://astrasalvensis.eu/> ( Co authored by: Kyrgyzkhan G. 70%, Balakhmetova G. Muratkazin, M. Manapbaev, N. Assymova, D., 30% ).

- Articles in scientific journals recommended by the committee for quality control in the field of education and science of the Ministry of education and science of the Republic of Kazakhstan

2. "Opportunities of digital educational resources". Journal "Kazakh history" // " Training. Methodology. Section "practice", No. 2 (179) . - Almaty: 2020. P.69-71 (Kyrgyzkhan G. A., 100%);

3. " Development of digital educational competence". Journal "Kazakh history"." Training. Methodology. Section "practice", No. 5 (182) . - Almaty: 2020.P. 72-73 ( Co-authored: Asymova D. B., 30%, Kyrgyzkhan G. A., 70%);

4. "The importance of digital educational tools in the learning system". Abai Kaznpu "Bulletin-Bulletin", Series "history and political and Social Sciences", No. 1 (64). - Almaty: named after Abay. Kaznpu, 2020. P. 420-423 (co-authored: Asymova D. B., 30%, Kyrgyzkhan G. A., 70%).

- Articles on materials at international conferences:

5. Methods of teaching history in secondary education institutions. International scientific and Practical Conference "Global science and innovations 2019: Central Asia", Astana, Kazakhstan, pp. 9-11 (co-authored: Rustem K.M., 30%, Kyrgyzkhan G. A., 70%);

6. Role and main functions of a modern teacher. Collection of scientific articles of the international scientific and Practical Conference "new Breath of the Great Steppe", Shymkent: 2019. P.20-23 (Kyrgyzkhan G. A. 100 %);

7. The process of teaching history: an educational and methodological basis for using multimedia tools. Abay KazNPU, Institute of History and Law, materials of the international scientific and practical conference "modern historical science: problems of local history, regional and local history", Almaty: 2021. P.265-269 (co-authored: Asymova D. B. 20%), (Kyrgyzkhan G. A. 80%).