

ANNOTATION

**Dissertation for the degree of Doctor of Philosophy (PhD) in speciality
6D010200 – «Pedagogy and methodology of primary education»
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The national project «Intellectual Nation 2020» adopted in our country emphasizes the need to prioritize the formation of a well-developed, educated, cultured, intelligent, talented generation. In this regard, the formation of the intellectual potential of students in the curricula of universities is identified as the first priority in education, and the training of highly qualified specialists through the widespread use of the potential of information technology has become a key issue.

Research topic: Formation of intellectual potential of future primary school teachers through IT.

Learning purpose: to determine the theoretical and methodological basis for the formation of intellectual potential of future primary school teachers through IT, to develop a methodology, to test its effectiveness through experimental work, to provide scientific and methodological recommendations.

Research goals:

- to determine the theoretical and methodological basis for the formation of the intellectual potential of future primary school teachers;
- clarification of the content of the concepts of «intellectual potential», «intellectual potential of future primary school teachers», development of a structural and content model of the formation of the intellectual potential of future primary school teachers through IT;
- development of methods for the formation of intellectual potential of future primary school teachers through IT;
- testing its effectiveness through experimental work, providing scientific and methodological recommendations;

Research methods:

- theoretical: comparative analysis (analysis of philosophical, psychological, pedagogical and methodological literature), summary, content analysis, cluster structuring, comparison;
- empirical: thought experiment, questionnaire, interview, pedagogical control, test, experimental work, pedagogical diagnostics, pedagogical modeling; statistical: mathematical and statistical processing of research results.

Basic principles of protection (proven scientific hypotheses and other concepts that are new knowledge):

- defining the theoretical and methodological basis for the formation of intellectual potential of future primary school teachers through IT: the genesis of the concept of «intellectual potential» is analyzed philosophically, psychologically and pedagogically, system-action, synergetic, personal, complex, innovative approaches to the formation of intellectual potential of future primary school teachers received;
- presence of cognitive needs, motivation, preparation for mental stress (creative search) as an integral part of the concept of intellectual potential; intellectual product, the formation of subjective readiness for knowledge and the content of the concept of

intellectual potential: «the solution of the unknown, the representation, the inner spiritual strength of the individual and the energy structure of the mind to achieve results»; and the content of the concept of «intellectual potential of future primary school teachers» was clarified: «the ability to manage the knowledge, dynamic connections of the individual to achieve professional and creative success»;

- the content of the formation of the intellectual potential of future primary school teachers through IT is understood and recognized on the basis of structural and content modeling. As a pedagogical system, its components (motivational, cognitive, procedural) form a set of criteria and indicators and are implemented in accordance with the levels (low, medium, high).

- the effectiveness of the methodology of building the intellectual potential of future primary school teachers through IT (special course program, the rules of the intellectual map method, teaching aids) and experimental results were developed.

The main research findings: the effective use of the opportunities of the methodology of building the intellectual potential of future primary school teachers through IT is aimed at creating conditions for the professional training of future primary school teachers in accordance with educational programs.

Reliability and validity of research results:

- theoretical and methodological bases of formation of intellectual potential of students are defined;

- the content of the concepts of «intellectual potential», «intellectual potential of future primary school teachers» was clarified;

- a structural and content model of the formation of the intellectual potential of future primary school teachers through IT has been developed;

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

State Program for the Development of Education and Science in the Republic of Kazakhstan for 2020-2025, New Development Opportunities in the Conditions of the Fourth Industrial Revolution: Message of the President of the Republic of Kazakhstan dated January 10, 2018, Article by President Kassym-Zhomart Tokayev "Independence is the Most Expensive", Kazakhstan Ministry of Education and science of the Republic of Kazakhstan, State compulsory standard of general secondary education, Law of the Republic of Kazakhstan "On Education", Message from President Kassym-Zhomart Tokayev to the people of Kazakhstan dated September 2, 2019 standardization of general education subjects, electives and elective programs.

Contribution of the doctoral student to the preparation of each publication (percentage of the dissertation author, measured as a percentage of the total number of publications):

1.«Preservice Teachers' Opinions on the Use of Technology in Education» // International Journal of Emerging Technologies in Learning (iJET). - 2020. - Vol. 15, №23. – P. 182-192. (Co-authored by: Bukhaeva A., Zhaparova B., Seidina M., Sadvakasova G., Nishanbayeva S. 50 %);

2. Aqparattyq IT arqyly bolashaq bastaýysh synyp muǵalimderiniń kásibi quziretiligin qalyptastyryú.// Mathematical modeling and Computer Science in education and science: materials of the IX International Scientific and

methodological conference dedicated to the 75th anniversary of Professor Bidaibekov E. I. and the 35th anniversary of school Informatics. - Abai Kaznpu; publishing house "Ulagat", 2020. - P. 318-322. (Co-authored by: Kenesbayev S. M. 50%);

3. Formirovanie informatsionno-kommunikatsionnoi kompetentnosti stýdentov psihologo-pedagogicheskikh spetsialnostei. Bulletin of the Kazakh National Women's Pedagogical University. – 2019. - №4 (80). - P. 237-243. (Co-authored by: Akramova A. S., Baynesh Sh.50%);

4. Bolashaq bastayysh synyp mugalimderiniń intellektýaldyq áleýetin damytýda IT-n qoldandyń mýmkindikteri // International scientific journal. Science and life of Kazakhstan. - 2020. - №7(3). - P. 160-165. (Co-authored by: Кариев А.Д. 50%);

5. K voprosý o razvitií intellektýalnogo potentsiala býdýshih pedagogov nachalnyh klassov s pomoshú IT-tehnologii // International scientific journal. Science and life of Kazakhstan. – 2020. - №11/2 (145). - S. 273-276. – 2020. - №11/2 (145). – C. 273-276. (Co-authored by: Kenesbayev S. M. 50%);

6. Bolashaq bastayysh synyp mugalimderiniń intellektýaldy áleýetin qalyptastyrdyń diagnostikasy// Vestnik Toraigyrov University. The Series Is Pedagogical. - 2020. - No. 3. - p. 289-300. (Co-authored by: Kenesbayev S. M. 50%);