REPORT
about the work of the Dissertation Council

Dissertation Council in the direction 8D015-Training of teachers in natural science subjects (6D011100-Computer Science) at the Abai Kazakh National Pedagogical University

1. Data on the number of meetings held

In the dissertation council at the Abai Kazakh National Pedagogical University in the direction 8D015-Training of teachers in natural science subjects (6D011100-Computer Science), 6 meetings were held in the reporting year (from 01.01.2023 to 12.31.2023)

2. Surnames, first name, patronymic (if any) of the members of the dissertation council who attended less than half of the meetings.

There are no Council members who attended less than half of the meetings.

3. A list of doctoral students indicating the organization of training.

Kurmangalieva Nurgul Aitbayeva, Abai Kazakh National Pedagogical University;

Bukanova Assel Kairatovna, Abai Kazakh National Pedagogical University;

Bedelov Kambar Amangeldievich, Abai Kazakh National Pedagogical University

4. A brief analysis of the dissertations reviewed by the Council during the reporting year, highlighting the following sections:

According to the dissertation of *Kurmangalieva Nurgul Aitbayevna*:

1) analysis of the subject of the reviewed works;

The topic of the dissertation: Formation of a digital pedagogical university based on the integration of informatization technologies of educational activities

Specialty: 6D011100-Computer Science

Scientific consultants: doctor of pedagogical sciences, professor Bidaibekov E.Y., doctor of pedagogical sciences, professor Balykbayev T.O., doctor of pedagogical sciences, professor Grinshkun V.V.

The defense took place on April 14, 2023.

New and reliable results have been obtained in the work:

- the concept of "digital pedagogical university" is clarified, the advantages and directions of its formation are shown, the scientific and theoretical foundations of the formation of a digital educational environment based on the integration of information technologies for the development of a digital pedagogical university are determined;

- a structural and content model of the formation of a digital pedagogical university based on the integration of technologies for informatization of educational activities has been developed;

- technologies of the fourth industrial revolution have been selected for the integration of components of the digital educational environment within the

framework of the formation of a digital pedagogical university.

2) the connection of the topic of the dissertation with the directions of science development, which were formed by the Higher Scientific and Technical Commission under the Government of the Republic of Kazakhstan in accordance with paragraph 3 of Article 18 of the Law "On Science" and (or) state programs;

"Just state. United Nation. Blessed society" address of the head of state Kassym-Jomart Tokayev to the people of Kazakhstan (September 1, 2022); Concept for the development of Information and communication technologies and the digital sphere (No. 961, December 30, 2021); The concept of education development of the Republic of Kazakhstan for 2022-2026 (No. 941, November 24, 2022); The Strategic Development Plan of the Republic of Kazakhstan until 2025 (No. 521, February 26, 2021).

3) analysis of the level of implementation of the results of dissertations in practice

Determination of methods of using the developed structural and content model in the context of integration of components of the digital educational environment of a digital pedagogical university, the use of the digital educational environment of a pedagogical digital university in educational, extracurricular, measuring and control, research and organizational management activities.

According to the dissertation of *Bukanova Asel Kairatovna:*

1) analysis of the subject of the reviewed works;

The topic of the dissertation: Methodical bases of training of history of Informatics for future teachers of Informatics in the conditions of digitalization of education

Specialty: 6D011100-Computer Science

Scientific consultants – candidate of pedagogical sciences, associate professor Oshanova N.T., doctor of pedagogical sciences, professor Pak N.I.

The defense took place on April 14, 2023.

New and reliable results have been obtained in the work:

- the necessity of improving the teaching of the history of computer science to future computer science teachers based on digital educational technologies is substantiated;

- the content of the course on the history of computer science in the context of digitalization of education has been selected;

- an inverted educational resource on the history of computer science course has been developed;

- a methodology has been developed for teaching the history of computer science course to future computer science teachers using an inverted educational resource.

2) the connection of the topic of the dissertation with the directions of science development, which were formed by the Higher Scientific and Technical Commission under the Government of the Republic of Kazakhstan in accordance with paragraph 3 of Article 18 of the Law "On Science" and (or) state programs;

The concept of education development of the Republic of Kazakhstan for 2022-2026 (November 24, 2022 No. 941), State of the Nation Address by the President of the Republic of Kazakhstan Nursultan Nazarbayev, New opportunities under the fourth industrial revolution (January 10, 2018), State Mandatory Standards of Higher and Postgraduate Education (July 20, 2022 № 2), State mandatory standards of preschool education and training, primary, basic secondary and general secondary, technical and vocational, post-secondary education (August 3, 2022 No. 348), President of Kazakhstan Kassym-Jomart Tokayev's State of the Nation Address. Kazakhstan in a new reality: time for action (September 1, 2020), State of the Nation Address by President of the Republic of Kazakhstan KassymJomart Tokayev. Unity of the people and systemic reforms are a solid foundation for the nation's prosperity (July 1, 2021), The concept of development of the information and communication technologies and digital sphere (December 30, 2021, No. 961).

3) analysis of the level of implementation of the results of dissertations in practice

It is determined by the development of the proposed electronic manual based on an inverted educational resource for teaching future computer science teachers a course in the history of computer science. The electronic textbook created during the research work can be used in the training of future computer science teachers, in secondary educational institutions, in the teacher training system.

According to the dissertation of *Bedelov Kambar Amangeldievich*:

1) analysis of the subject of the reviewed works;

The topic of the dissertation: Methodological system of preparing future teachers of computer science for the use of cloud technologies in professional activities

Specialty: 6D011100-Computer Science

Scientific consultants: doctor of pedagogical sciences, professor Bidaibekov E.Y., candidate of pedagogical sciences, associate professor Koneva S.N., doctor of pedagogical sciences, professor Grinshkun V.V.

The defense took place on June 10, 2023.

New and reliable results have been obtained in the work:

- the necessity of training future computer science teachers to use cloud technologies in their professional activities is substantiated;

- a model has been developed for preparing future computer science teachers to use cloud technologies in their professional activities;

- the goals and content of training future computer science teachers to use cloud technologies in their professional activities are defined;

- a methodology has been developed for preparing future computer science teachers to use cloud technologies, organizational forms and methods, and criteria for selecting cloud services as a means of learning have been defined.

2) the connection of the topic of the dissertation with the directions of science development, which were formed by the Higher Scientific and Technical Commission under the Government of the Republic of Kazakhstan in accordance with paragraph 3 of Article 18 of the Law "On Science" and (or) state programs;

IEEE/ISO/IEC 8802-IX-2013-IEEE/ISO/IEC Information technology Telecommunications and information exchange between systems – Local and metropolitan area networks – Part IX: Port-based network access control; The national project «Quality Education « Educated Nation »», approved by the Decree of the Government of the Republic of Kazakhstan dated 2021; The concept of development of higher education and science in the Republic of Kazakhstan for 2023 - 2029, approved by the Decree of the Government of the Republic Kazakhstan dated March 28, 2023 No. 248; Professional standard «Teacher», approved by the order of the Acting Minister of Education of the Republic of Kazakhstan dated December 15, 2022 №. 500.

3) analysis of the level of implementation of the results of dissertations in practice

Defining the content of the course "cloud technologies" in order to prepare future computer science teachers to use cloud technologies in their professional activities, as well as criteria for selecting cloud services as learning tools. With the help of the Google ClassRoom educational platform, Google Class was prepared in the disciplines of "cloud technologies", "computer networks", etc..

5. Analysis of the work of official reviewers (with examples of the most substandard reviews).

The reviewers were scientists who have made contributions in the fields of computer science and informatization of education.

Information on the reviewers of the dissertation of *Kurmangalieva N.A.:*

Tazhigulova Almira Izbasarovna - doctor of pedagogical sciences, associate professor, National Center for Informatization (Almaty, Kazakhstan), (specialty code 13.00.02);

Bayganova Altynzer Mynturganovna - candidate of pedagogical sciences, associate professor, Aktobe Regional University named after K.Zhubanov (Aktobe, Kazakhstan), (specialty code 13.00.02).

Information on the reviewers of the dissertation of *Bukanova A.K.:*

Rakhimzhanova Lyazzat Baltabaevna - candidate of pedagogical sciences, Al-Farabi Kazakh National University, Almaty, Kazakhstan (specialty code 13.00.02);

Baygusheva Kanagat Mubarakovna - candidate of pedagogical sciences, Digital Experts Group LLP Almaty, Kazakhstan (specialty code 13.00.02).

Information on the reviewers of the dissertation of *Bedelov K.A.:*

Kerimbayev Nurasyl Nurymovich - doctor of pedagogical sciences, professor, al-Farabi Kazakh National University (Almaty, Kazakhstan), (specialty code 13.00.02);

Gulmira Nesipbaevna Isabayeva - candidate of pedagogical sciences, Kazakh National Agrarian Research University (Almaty, Kazakhstan), (specialty code 13.00.02).

6. Proposals for further improvement of the scientific personnel training system.

- graduate departments submitting dissertations for defense should pay special attention to the quality of research work and the documents necessary for defense.

7. The number of dissertations for the degrees of doctor of philosophy (PhD), doctor by profile in the context of training areas

	6D011100-Computer Science
dissertations accepted for defense (including doctoral students from other universities);	3 (-)
dissertations withdrawn from consideration (including doctoral students from other universities);	-
dissertations that received negative reviews from reviewers (including doctoral students from other universities);	-
dissertations with a negative decision based on the results of the defense (including doctoral students from other universities);	-
dissertations aimed at revision (including doctoral students from other universities);	-
dissertations aimed at re-defense (including doctoral students from other universities).	-

Chairman
dissertation Council _____ Bidaibekov E.Y.
(signature, surname and initials)

Academic secretary
of the dissertation council_____ Sagimbayeva A.E.
(signature, surname and initials)

December 29, 2023