



ZHETYSU UNIVERSITY

1972

ATTENTION TO AUTHORS!

The frequency of the journal

The journal «Bulletin of Zhetysu University named after Ilyas Zhansugurov» publishes **4 times a year in the following established terms:**

No. 1 - until March 30;

No. 2 - until June 30;

No. 3 - until September 30;

No. 4 - until December 30.

Information for authors regarding article submission deadlines

Manuscripts are accepted during the previous quarter of the calendar year for the current issue of the journal.

Information regarding the manuscript submission deadlines is available on the journal's website at: <https://journal.zhetysu.edu.kz>.

Articles must be submitted to the editorial office via the journal's official website: <https://journal.zhetysu.edu.kz>.

Languages of publication: Kazakh, Russian, English

Please note that only one article per author may be published in a single issue of the journal. An author may publish no more than 2 articles per year. Additionally, the number of authors per article must not exceed 4.

General information

The journal «Bulletin of Zhetysu University named after Ilyas Zhansugurov» accepts original research for publication, formatted as full manuscripts. The materials must be unique, unpublished, aligned with the journal's theme, and for plagiarism check (the minimum required level of text originality must be at least 75%), double-blind peer review, and approval by the editorial board.

Attention! Articles that do not comply with the formatting guidelines contain a large number of grammatical and spelling errors, or use automatic translation into English/Kazakh/Russian will not be accepted by the editorial board and will be returned to the authors without review.

All submitted manuscripts must first pass an initial technical check. At this stage, the editorial office verifies whether the article is formatted according to the journal's Guidelines and the official Article Template available on the website. If the manuscript does not comply with the formatting requirements, it will be returned to the author(s) for correction. Please note that proper formatting is the responsibility of the author(s). The editorial office only provides the necessary instructions and template and performs the technical check at the first stage. If the manuscript fails the initial technical check twice, it will be rejected permanently and will not be accepted for further consideration or resubmission to the journal.

The executive secretary reviews the submitted materials for compliance with the

formatting requirements within fifteen to thirty days. If the requirements are violated, the author is notified about the need for revision or informed that the article has been rejected.

The journal is open access – any author, regardless of citizenship, place of work, or academic degree, may submit a manuscript for publication provided that the editorial requirements are met. Articles by students and master's students are not accepted.

ATTENTION!

The Editorial Office does not engage in discussions with authors regarding manuscript formatting, the content of the article, or publication decisions.

The Editorial Office asks authors to distinguish between the hyphen (-) and the en dash (–).

The permissible use of artificial intelligence tools in the preparation of a manuscript shall not exceed 25%, provided that the overall originality of the text is at least 75%.

If artificial intelligence is used, the author(s) must specify the name of the model or service applied and the purpose of its use. Full responsibility for the final content of the publication rests entirely with the author(s).

Payment methods

After the manuscript is accepted for publication, the author must send a scan of the receipt for the publication fee (in PDF or JPEG format) to the email address: vestnik@zu.edu.kz. The organizational fee is 40 000 tenge. (Includes costs for plagiarism checking, peer review, DOI assignment, journal website maintenance, etc.). For foreign authors without co-authorship with Kazakhstani authors, publication in the journal is free of charge.

University details

Zhetysu University named after I. Zhansugurov

TIN 531400011685

BIN – 990140003041

IIC – KZ566010311000005234

BC 16

BIC - HSBKKZKX,

Taldykorgan regional department 319900 JSC «Halyk Bank», Taldykorgan.

When paying specify the purpose of payment: Registration fee for publication in the journal Bulletin of ZU.

Payment Instructions via the Kaspi.kz App:

Payments ➡ Search ➡ Manually write «Zhetysu University named after I. Zhansugurov» ➡ Instead of the faculty, you write: for the Bulletin ➡ fill in your data ➡ The amount: 40 000 tenge for 1 manuscript ➡ pay

Editorial Office address: 040000, Taldykorgan, Ilyas Zhansugurov St., 187a, Zhetysu University named after Ilyas Zhansugurov, Department of Scientometrics and Research Personnel Training, Room 310, phone: 8 (7282)22-21-23, вн. 1193, e-mail: vestnik@zu.edu.kz.

INFORMATION FOR AUTHORS

Authors are advised to follow the guidelines below when preparing manuscripts for publication in the journal.

The MS Word document containing the manuscript must be named according to the following format: last names and initials of all authors. For example: Shatyrbayeva G.Zh., Moldabayeva M.B., Zhumabayeva E.F.

At the end of the article, information about the authors must be provided in three languages

(Full name — as in the identity document, academic degree, academic title, university or organization, e-mail, ORCID).

Sample:

Moldabaeva Marzhan* – candidate of pedagogical sciences, professor, Zhetysu University named after I. Zhansugurov (Kazakhstan, Taldykorgan, e-mail: marzhan_moldabaeva@mail.ru, ORCID: 0000-0000-0000-0000).

Молдабаева Маржан Болатовна* – педагогика ғылымдарының кандидаты, профессор, I. Жансүгіров атындағы Жетісу университеті (Қазақстан, г. Талдықорған, e-mail: marzhan_moldabaeva@mail.ru, ORCID: 0000-0000-0000-0000).

Молдабаева Маржан Болатовна* – кандидат педагогических наук, профессор, Жетысуский университет имени И. Жансугурова (Казakhstan, Талдықорған қ., e-mail: marzhan_moldabaeva@mail.ru, ORCID: 0000-0000-0000-0000).

ARTICLE FORMATTING GUIDELINES

(if the manuscripts is in English)

1) 1. The SRSTI index (State Rubricator of Scientific and Technical Information) must be placed at the top left corner of the article in bold font. The SRSTI number should be obtained from the website <http://grnti.ru/>.

2) The title of the article (7-12 words), in capital letters in bold, in the center (in the language of the article).

3) The last name and initials of the author(s) and Orcid.

4) Information about the authors (affiliations (names of organizations), name of the country, city, addresses of all authors, e-mails of all authors).

The author responsible for correspondence with the editorial office and for addressing all comments and revisions to the article is the corresponding author and is marked with an asterisk «». Authors from different institutions are indicated using superscript numbers ^{1, 2} and so on.*

5) Abstract at least 150 and no more than 300 words, keywords/phrases (5–8 words) related to the topic (in Russian, Kazakh, and English).

6) The length of the manuscript (without the title, author information, abstract, keywords, and reference list) must be no less than 6 pages (3,000 words) and must not exceed 16 pages (7,000 words).

7) When submitting an article, authors must provide a cover letter. For authors affiliated with the university, instead of a cover letter, a faculty approval statement (*Appendix A*) and the manuscript formatted according to the guidelines below are required.

8) In the cover letter, authors are required to confirm that the submitted article has not been previously published anywhere and that the manuscript does not contain any plagiarized content or borrowed text from other works without proper citation.

9) Font – Times New Roman, size – 12 pt. with a single line spacing. Margins on the left and top – 2.5 cm, on the right and bottom – 2 cm, paragraph – 1.25. The material of the manuscript is drawn up in accordance with «State Standard» 7.5-98 «Magazines, collections, information publications. Publishing design of published materials».

10) In the text, square brackets should be used for references to literary sources – [1], round brackets for formulas – (1). Links to formulas should be located to the right of the formula.

11) All formulas, numerical values, and notation of quantities must be typed in Microsoft Equation 3.0 or MathType format. Each formula should be typed separately if several formulas are in a row.

12) All the symbols used should be explained (it is possible not to explain unambiguous generally accepted designations).

13) You cannot start a sentence with a formula.

14) Tables and illustrations should be arranged as they are mentioned in the text in separate paragraphs. Each table and illustration should have a caption and each table and illustration should have a link in the text. Numbering for tables and illustrations is separate. When using tables and illustrations borrowed from other literary sources, it is necessary to provide proper references to the original authors and publications.

15) Illustrations must be of high quality (minimum 300 dpi) and numbered consecutively. All illustrations and their captions should be center-aligned, with captions placed directly below the illustration and separated from the main text by spaces. The font should be Times New Roman, size 12 pt. Example: Figure 1 – Title of the illustration.

16) Tables should be created in Microsoft Word table format. All tables should be numbered. Tables must be created using the Microsoft Word table format and numbered consecutively. The table title should be left-aligned and placed above the table. Titles and tables should be separated from the main text by spaces. The font should be Times New Roman, size 12 pt. Example: Table 1 – Title of the table.

17) Figures, tables, graphs, charts, and other visual materials must be placed directly within the text and provided with numbering and a title (for example, Fig. 1 – Title of the Figure). The total number of figures, tables, graphs, and charts must not exceed 20% of the overall length of the article (in some cases, up to 30%).

The structure of the article should follow the IMRAD format:

- **Introduction**
- **Materials and methods**
- **Results and discussion**
- **Conclusion**
- **Funding information (if available)**

– The style of the reference list must comply with «State Standard» 7.1-2003 «Bibliographic record. Bibliographic description. General requirements and rules for compilation» (requirement for publications included in the list of the Committee for Quality Assurance in the Field of Science and Higher Education). The Reference List (Bibliography) must include no fewer than 15 and no more than 20 sources, including mandatory references to publications indexed in Web of Science and/or Scopus (2–3 articles), as well as articles published in journals included in the list of Committee for Quality Assurance in Science and Higher Education (CQASHE) (2–3 articles). Self-citation is limited to no more than one source. No more than two normative (regulatory) documents may be included. Automatic numbering of the reference list is not allowed.

– **References** For articles written in Kazakh and Russian, transliteration of the reference list into Latin script is mandatory; for articles written in English, the reference list should be provided in the original language, using Latin script.

Attention! If there is literature in Cyrillic in the submitted list of references, then it is necessary to submit the list of references in two versions: in the original language in the Literature and in the Romanized alphabet (transliteration into Latin) in References. If there are foreign publications, they are completely repeated in References. Transliteration from Cyrillic can be done using the Online Converter program on the website <https://qazlat.kz/>.

For transliterated reference lists, the following structure should be used: Author(s) in English. (Year in parentheses). Title of the manuscript in transliterated form [translation of the manuscript title into English], Transliterated title of the source, publication details with designations in English.

Example:

In the «**LITERATURE**» section:

1 Zheldibayeva Raigul, Nascimento Ana Karina de O., Castro Vania, Kalantzis Mary, Cope Bill. The impact of AI-driven tools on student writing development: A case study // Online Journal of Communication and Media Technologies. – 2025. – Vol. 15/3. – e202526. DOI: <https://doi.org/10.30935/ojcm/16738>

2 Sakibayeva B., Sakibayev S. Enhancing professional competence in physics and mathematics education through information technology // Educational Research and Evaluation. – 2025. – Т. 30. – №7–8. – С. 610–622. DOI: <https://doi.org/10.1080/13803611.2025.2502813>

3 Хмель Н.Д. Теория и технология реализации целостного педагогического процесса: учебное пособие в помощь преподавателям, аспирантам, магистрантам, студентам. – Алматы. – 2002. – 90 с.

In the «**REFERENCES**» section:

1 Zheldibayeva R., Nascimento A.K. de O., Castro V., Kalantzis M., Cope B. (2025). The impact of AI-driven tools on student writing development: A case study. Online Journal of Communication and Media Technologies, vol. 15, no. 3, e202526. DOI: <https://doi.org/10.30935/ojcm/16738>

2 Sakibayeva B., Sakibayev S. (2025). Enhancing professional competence in physics and mathematics education through information technology. Educational Research and Evaluation, vol. 30, no. 7–8, pp. 610–622. DOI: <https://doi.org/10.1080/13803611.2025.2502813>

3 Hmel N.D. (2002). Teoria i tehnologia realizasii selostnogo pedagogicheskogo prosesa: uchebnoe posobie v pomösh prepodavateläm, aspirantam, magistrantam, studentam [Theory and technology of implementing the holistic pedagogical process]. Almaty, 90 p. (in Russian)

Instructions for authors on manuscript formatting can be found in **Appendix B**.

Cover letter

(on the official letterhead of the organization)

This letter confirms that the publication of the scientific article titled «**Title of the article**», **Full name(s) of the author(s)**, in the journal «**Bulletin of ZU**» does not violate the copyright of third parties. The author(s) transfer(s) to the journal publisher non-exclusive rights to use the scientific article for an indefinite period, including the placement of full-text versions of the journal issues on the official website. The author(s) bear(s) full responsibility for the use of intellectual property objects and copyrights in the article in accordance with the current legislation of the Republic of Kazakhstan. We also confirm that this article has not been previously published, has not been submitted to, and will not be submitted to other scientific publications (in case of acceptance for publication). The author(s) express(es) consent to the rules for preparing the manuscript for publication, approved by the journal’s editorial board and posted on its official website.

This approval statement is issued to the editorial office of the scientific journal “Bulletin of ZU” for the purpose of conducting an anti-plagiarism check of the submitted article.

The manuscript discloses information regarding the use of generative Artificial Intelligence (hereinafter referred to as AI) and/or AI-assisted tools, specifying the models or services used and the reasons for their application.

At the end of the article, immediately before the references/bibliography, the following statement will be included:

"In preparing this work, the author(s) used (NAME OF MODEL/SERVICE) in order to (JUSTIFY THE PURPOSE). After using this tool/service, the author(s) reviewed and edited the content as necessary and assume full responsibility for the content of the publication."

We confirm that the article fully complies with the journal’s policy regarding the use of generative AI and that all tools were used in accordance with the principles of publication ethics.

In the event that serious violations of publication ethics related to the use of AI are identified, the author(s) assume full responsibility for compliance with all norms and standards established by the journal.

Attachments:

Electronic version of the article consisting of _____ pages

Author’s Full Name

Signature, Date

Author’s Full Name

Signature, Date

Author’s Full Name

Signature, Date

Rector / Vice-Rector for Scientific Research

FACULTY APPROVAL STATEMENT

Faculty/Institute: (Name of the Faculty/Institute)

Department/Laboratory meeting: Protocol No. ____, dated (date)

We hereby confirm that the publication of the scientific article “Title of the Article”, authored by Full Name(s) of the Author(s), in the journal “Bulletin of ZU”, does not violate the copyright of any third parties. The author(s) of the article transfer to the publisher of the journal non-exclusive rights to use the scientific article for an indefinite period, including the placement of full-text versions of the journal’s issues on the official website. The author(s) bear full responsibility for the use of intellectual property and copyrighted materials in the article, in accordance with the current legislation of the Republic of Kazakhstan. We also confirm that this article has not been previously published, has not been submitted, and will not be submitted to other scientific journals (if accepted for publication). The author(s) agree to comply with the rules for preparing manuscripts for publication as approved by the editorial board and published on the official website of the journal.

This approval statement is issued to the editorial office of the scientific journal “Bulletin of ZU” for the purpose of conducting an anti-plagiarism check of the submitted article.

The manuscript discloses information regarding the use of generative Artificial Intelligence (hereinafter referred to as AI) and/or AI-assisted tools, specifying the models or services used and the reasons for their application.

At the end of the article, immediately before the references/bibliography, the following statement will be included:

"In preparing this work, the author(s) used (NAME OF MODEL/SERVICE) in order to (JUSTIFY THE PURPOSE). After using this tool/service, the author(s) reviewed and edited the content as necessary and assume full responsibility for the content of the publication."

We confirm that the article fully complies with the journal’s policy regarding the use of generative AI and that all tools were used in accordance with the principles of publication ethics.

In the event that serious violations of publication ethics related to the use of AI are identified, the author(s) assume full responsibility for compliance with all norms and standards established by the journal.

Attachments:

Electronic version of the article consisting of _____ pages

Dean/Director

(signature)

Head of Department/Head of Laboratory

(signature)

Scientific Supervisor /Consultant (for students)

(signature)

Author(s)

(signature)

(signature)

(signature)

SAMPLE ARTICLE STRUCTURE

SRSTI

DOI (The article's DOI is assigned by the journal editorial office after acceptance for publication)

TITLE OF THE MANUSCRIPT IN ENGLISH

M. Shatyrbayeva^{1,*} , M. Moldabayeva² , E. Zhumabayeva¹ 

¹Zhetysu University named after I. Zhansugurov, Republic of Kazakhstan, Taldykorgan

²Abai Kazakh National Pedagogical University, Republic of Kazakhstan, Almaty

( The icon must contain a hyperlink to the ORCID profile.)

*e-mail: (e-mail of the all authors)

Abstract (150-300 words). The abstract should include the following mandatory items:

Purpose, ideas and main directions of research;

A brief description of the scientific and practical significance of the study;

Brief description of the research methodology;

Main results and analysis, conclusions of the research work;

The value of the conducted research;

Keywords: 5-8 keywords.

Introduction

The introduction should contain information about the objectives of the work, the importance of the research area, the theoretical and practical significance, the relevance of the problem, the solution of the problem or the formation of a hypothesis.

Materials and methods

This section should consist of a detailed description of materials, equipment and software (including the model, company and country), as well as a detailed description of the methods used, while only new methods should be described in detail. It is sufficient to refer to previously published and well-known methods in the list of references. If the method is not widely known, it is desirable to state its principle and specify the author. The materials used in the course of the study should be described in qualitative and quantitative terms. Statistical analysis of the data obtained during the study is mandatory, it is also necessary to specify the software used. This section provides a detailed description of the research process and the sequence of its stages. It includes a critical analysis of existing studies and presents hypotheses that are either confirmed or refuted by the author in the course of the discussion.

Results and discussion

This section reveals the results of the work and should contain an analysis and discussion of the results of the study. The results should be presented in the form of tables, figures and other illustrative materials with their discussion.

Tables

Tables must be created using the Microsoft Word table format and numbered consecutively. The table title should be left-aligned and placed above the table. Titles and tables should be separated from the main text by spaces. The font should be Times New Roman, size 12 pt.

Table 1 – Title of the Table (*link to the source if taken from another publication*)

| Title | Result 1 | Result 2 | Result 3 |
|---------|----------|----------|----------|
| Title 1 | 1 | 2 | 3 |

Illustrations

Illustrations must be of good quality (minimum 300 dpi) and numbered consecutively. All illustrations with their captions should be center-aligned, with captions placed directly below the illustration and separated from the main text by spaces. The font should be Times New Roman, size 12 pt.

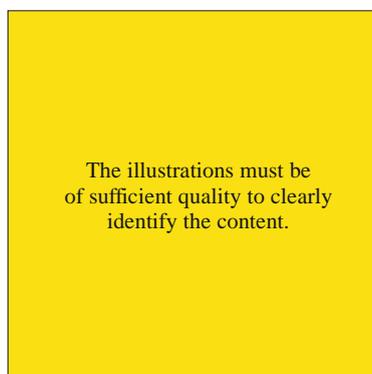


Figure 1 – The name of the figure (*link to the source if taken from another publication*)

Equations

All equations, numerical values, and notation of quantities must be typed in Microsoft Equation 3.0 or MathType format. Drawings of formulas are not allowed. All formulas must be numbered. Formulas should be centered. The numbering of formulas should be placed to the right of the formula in parentheses. All formulas should be separated by spaces from the rest of the text.

$$f = \sum \left(a + \frac{a}{10} \right) \quad (1)$$

where: f – designation name;
 a – designation name.

Discussion

This section includes the interpretation and explanation of the data obtained during the research, as well as a comparison of the results with the findings of other scholars.

Conclusion

This section should summarize and summarize the results of the work carried out, show how the results obtained and their significance for the development of science can potentially be used.

Financing information (if available)

List the sources of funding with the support of which the work was carried out.

List of literature

The list of references, or Bibliography, must include no fewer than 15 and no more than 20 sources, including mandatory publications indexed in Web of Science and/or Scopus (2-3 articles), as well as articles published in journals included in the list of the Committee for Quality Assurance in Science and Higher Education (CQASHE) (2-3 articles). Self-citation is allowed for no more than 1-2 sources. Automatic numbering of the bibliography is not permitted.

In the text, the reference number should be indicated in square brackets. For example: Kudaibergenova S.K., Abildina S.K. [1] formula proves that (...).

LITERATURE:

1 Zheldibayeva Raigul, Nascimento Ana Karina de O., Castro Vania, Kalantzis Mary, Cope Bill. The impact of AI-driven tools on student writing development: A case study // Online Journal of Communication and Media Technologies. – 2025. – Vol. 15/3. – e202526. DOI: <https://doi.org/10.30935/ojcm/16738>

2 Sakibayeva B., Sakibayev S. Enhancing professional competence in physics and mathematics education through information technology // Educational Research and Evaluation. – 2025. – Т. 30. – №7–8. – С. 610–622. DOI: <https://doi.org/10.1080/13803611.2025.2502813>

3 Хмель Н.Д. Теория и технология реализации целостного педагогического процесса: учебное пособие в помощь преподавателям, аспирантам, магистрантам, студентам. – Алматы. – 2002. – 90 с.

4 Redecker C., Punie Y. European framework for the digital competence of educators (DigCompEdu) [электронный ресурс]. – Luxembourg: Publications Office of the European Union. – 2017. URL: <https://op.europa.eu/en/publication-detail/-/publication/e6b39c7f-ec24-11e7-9749-01aa75ed71a1> (дата обращения: 15.02.2026).

5 Sabyrkhanova L., Zhaidakbayeva L., Mehmet Akif Sözer, Belessova D., Kurmanbayeva Zh., Zhidebayeva A. Digital Literacy as a Tool for Developing Computational Thinking in Young Learners: A Literature Review // Open Education Studies. – 2026. – Т. 8. – №1. – С. 20250121. URL: <https://www.degruyterbrill.com/document/doi/10.1515/edu-2025-0121/html>

6 ҚР ОМА (Қазақстан Республикасының орталық мемлекеттік архиві). – Ф. 1692, Оп. 1, Іс 1881, П. 253. – Б. 3–38.

7 Bates A.W. Teaching in a Digital Age: Guidelines for designing teaching and learning [монография]. – Vancouver, B.C.: Tony Bates Associates Ltd. – 2019. – XIV, 371 p. URL: <https://pressbooks.bccampus.ca/teachinginadigitalagev2/> (дата обращения: 15.02.2026).

8 Ыбыраимжанов К.Т., Майлыбаева Г.С., Хюсеин Узунбойлу, Даникеева А.Б., Исабекова А.К. Жаңартылған білім беру мазмұны жағдайында педагогтің кәсібилігін дамыту жолдары: монография. – Талдықоған, 2022 – 158 б.

9 Ахметов Ж.М. Аймақтық білім беру жүйесіндегі басқару мәселелері: оқу құралы. – Талдықорған: Жетісу университеті баспасы. – 2023. – 45 б.

10 Абдулаева Ә.Б., Жанатбекова Н.Ж., Шендель А.В. Физиканы оқытуда ақпараттық-коммуникациялық технологияларды қолданудың кейбір мәселелері // Торайғыров университетінің хабаршысы. «Педагогикалық сериясы». – 2025. – № 2. – Б. 8–22. DOI: <https://doi.org/10.48081/YEEJ4011>

11 Сейдина М., Бекбаева Ж., Махамбетова Ж. Толеранттылық болашақ педагогтердің сыни ойлауын қалыптастырудың тәсілдемесі // ҚазҰУ Хабаршысы. «Педагогикалық ғылымдар» сериясы. – 2025 – Т. 82, № 1. – Б. 28–40. DOI: <https://doi.org/10.26577/JES20258213>

12 Калжанова Г.К., Андасбаев Е.С. Использование возможностей смартфонов в обучении физике // I. Жансүгіров атындағы Жетісу университетінің Хабаршысы. «Педагогикалық ғылымдар» сериясы. – 2025. – №3(116) – 84–95 Б. DOI: <https://doi.org/10.53355/ZHU.2025.116.3.009>

13 Білім берудегі STEM-тәсілін іске асырудың дидактикалық негіздері. Әдістемелік құрал. – Астана: Ы. Алтынсарин атындағы Ұлттық білім академиясы. – 2023. – 160 б.

14 Қазақстан Республикасы жоғары білім беру мемлекеттік стандартының тұжырымдамасы. – Алматы: «Ы. Алтынсарин атындағы білім академиясы». – 2022. – 49 б.

15 Furqon M., Sinaga P., Liliyasi L., Riza L.S. The Impact of Learning Management System (LMS) Usage on Students // TEM Journal. – 2023. – Vol. 12, № 2. – P. 1082–1089. DOI: <https://doi.org/10.18421/TEM122-5411>

REFERENCES:

1 Zheldibayeva R., Nascimento A.K. de O., Castro V., Kalantzis M., Cope B. (2025). The impact of AI-driven tools on student writing development: A case study. Online Journal of Communication and Media Technologies, vol. 15, no. 3, e202526. DOI: <https://doi.org/10.30935/ojcm/16738>

2 Sakibayeva B., Sakibayev S. (2025). Enhancing professional competence in physics and mathematics education through information technology. Educational Research and Evaluation, vol. 30, no. 7–8, pp. 610–622. DOI: <https://doi.org/10.1080/13803611.2025.2502813>

3 Hmel N.D. (2002). Teoria i tehnologia realizatii selostnogo pedagogicheskogo prosesa: uchebnoe posobie v pomosh prepodavatelam, aspirantam, magistrantam, studentam [Theory and technology of implementing the holistic pedagogical process]. Almaty, 90 p. (in Russian)

4 Redecker C., Punie Y. (2017). European framework for the digital competence of educators (DigCompEdu). Luxembourg: Publications Office of the European Union.

5 Sabyrkhanova L., Zhaidakbayeva L., Sözer M.A., Belessova D., Kurmanbayeva Zh., Zhidebayeva A. (2026). Digital Literacy as a Tool for Developing Computational Thinking in Young Learners: A Literature Review. Open Education Studies, vol. 8, no. 1, article 20250121. URL: <https://www.degruyterbrill.com/document/doi/10.1515/edu-2025-0121/html>

6 QR OMA (Qazaqstan Respublikasynyñ ortalyq memlekettik arhivı) [Central School of the Republic of Kazakhstan State Archives]. F. 1692. Op. 1. Is 1881. P. 253, pp. 3–38. (in Kazakh)

7 Bates A.W. (2019). Teaching in a Digital Age: Guidelines for Designing Teaching and Learning. Vancouver, B.C.: Tony Bates Associates Ltd., 371 p. URL: <https://pressbooks.bccampus.ca/teachinginadigitalagev2/> (accessed: 15.02.2026).

8 Ybyraimjanov K.T., Mailybaeva G.S., Hüsein Uzunboilu, Danikeeva A.B., İsabekova A.K. (2022). İsabekova A.K. Jañartylğan bilim beru mazmūny jaǵdaiynda pedagogtñ kāsibilıgın damytu joldary: monografia [Ways of developing teacher professionalism in the context of updated educational content]. Taldyqorǵan: Jetisu universiteti baspasy, 158 p. (in Kazakh)

9 Ahmetov J.M. (2023). Aimaqtyq bilim beru júiesindegi basqaru máseleleri: oqu qūraly [Management issues in the regional education system]. Taldyqorǵan: Zhetisu universiteti baspasy, 45 p. (in Kazakh)

10 Abdulaeva Ā.B., Janatbekova N.J., Şendel A.V. (2025). Fizikany oqytuda aqparattyq-komunikasialyq tehnologialardy qoldanudyñ keibir máseleleri [The use of information and communication technologies in teaching physics some problems]. Toraıǵyrov universitetiniñ habarşysy. «Pedagogikalıq seriesy», no. 2, pp. 8–22. DOI: <https://doi.org/10.48081/YEEJ4011> (in Kazakh)

11 Seidina M., Bekbaeva J., Mahambetova J. (2025). Toleranttylyq bolaşaq pedagogterdiñ syni oilaun qalyptastyrudıñ tásildemesi [Tolerance approach to the formation of critical thinking of future teachers]. QazĪU Habarşysy. «Pedagogikalıq ǵylymdar» seriesy, vol. 82, no. 1, pp. 28–40. DOI: <https://doi.org/10.26577/JES20258213> (in Kazakh)

12 Kaljanova G.K., Andasbaev E.S. (2020). İspölvovanie vozmojnosti smartfonov v obuchenii fizike [Using the capabilities of smartphones in physics education]. I. Jansūgırov atyndaǵy Jetisu universitetiniñ Habarşysy. «Pedagogikalıq ǵylymdar» seriesy, vol. 3, no. 116, pp. 84–95. DOI: <https://doi.org/10.53355/ZHU.2025.116.3.009> (in Russian)

13 Bilim berudegi STEM-tásilın iske asyruudyñ didaktikalıq negızderi (2023) [Implementation of the STEM approach in education didactic basics]. Ādistemelik qūral. – Astana: Y. Altynsarin atyndaǵy Ūltyq bilim akademiasy, 160 p. (in Kazakh)

14 Qazaqstan Respublikasy joǵary bilim beru memlekettik standartynyñ tújyrymdamasy [Concept of higher education state standard of the Republic of Kazakhstan]. Almaty: «Y. Altynsarin atyndaǵy bilim akademiasy», 49 p. (in Kazakh)

15 Furqon M., Sinaga P., Liliyasi L., Riza L.S. (2023). The Impact of Learning Management System (LMS) Usage on Students. TEM Journal, vol. 12, no. 2, pp. 1082–1089.

ҚАЗАҚ ТІЛІНДЕГІ ҚОЛЖАЗБА АТАУЫ

М.Г. Шатырбаева^{1,}, М.Б. Молдабаева², Э.Ф. Жумабаева¹*

¹*И. Жансүгіров атындағы Жетісу университеті, Қазақстан Республикасы, Талдықорған қ.*

²*Абай атындағы Қазақ Ұлттық педагогикалық университеті,
Қазақстан Республикасы, Алматы қ.*

** e-mail: (барлық авторлардың эл. почталары)*

*Аңдатпа (150–300 сөз). Аңдатпа келесі міндетті тармақтарды қамтуы керек:
Зерттеудің мақсаты, идеялары және негізгі бағыттары;
Зерттеудің ғылыми және практикалық маңыздылығының қысқаша сипаттамасы;
Зерттеу әдістемесінің қысқаша сипаттамасы;
Зерттеу жұмысының негізгі нәтижелері мен талдаулары, қорытындылары;
Жүргізілген зерттеудің мәні;
Кілт сөздер: 5-8 кілт-сөздер.*

НАЗВАНИЕ РУКОПИСИ НА РУССКОМ ЯЗЫКЕ

Шатырбаева М.Г.^{1,}, Молдабаева М.Б.² Жумабаева Э.Ф.¹*

¹*Жетысуский университет имени И. Жансугурова, Республика Казахстан,
г. Талдықорған*

²*Казахский национальный педагогический университет имени Абая, Республика
Казахстан, г. Алматы*

** e-mail: (электронные адреса всех авторов)*

*Аннотация (150-300 слов). Аннотация должна включать следующие обязательные пункты:
Цель, идеи и основные направления исследования;*

Краткое описание научной и практической значимости исследования;
Краткое описание методологии исследования;
Основные результаты и анализ, выводы исследовательской работы;
Ценность проведенного исследования;
Ключевые слова: 5-8 ключевых слов.

Information about the author(s):

Moldabaeva Marzhan* – candidate of pedagogical sciences, professor, Zhetysu University named after I. Zhansugurov (Kazakhstan, Taldykorgan, e-mail: marzhan_moldabaeva@mail.ru, ORCID: 0000-0000-0000-0000).

Автор(лар) туралы мәлімет:

Молдабаева Маржан Болатовна* – педагогика ғылымдарының кандидаты, профессор, І. Жансүгіров атындағы Жетісу университеті (Қазақстан, г. Талдықорған, e-mail: marzhan_moldabaeva@mail.ru, ORCID: 0000-0000-0000-0000).

Сведения об авторе(ах):

Молдабаева Маржан Болатовна* – кандидат педагогических наук, профессор, Жетысуский университет имени И. Жансугурова (Казakhstan, Талдықорған қ., e-mail: marzhan_moldabaeva@mail.ru, ORCID: 0000-0000-0000-0000).