

GUIDELINES FOR AUTHORS

for the submission of scientific articles for publication in the academic journal
“EKTU Journal of Engineering Sciences”

1. SUBJECT AREAS

EKTU Journal of Engineering Sciences publishes original research articles, review papers, and the results of interdisciplinary studies in the fields of engineering and applied sciences. The journal covers a broad range of theoretical, experimental, and applied research, including the following areas:

Transport

- transport systems and technologies;
- traffic management and transport planning;
- intelligent transport systems;
- automotive, railway, and urban transport infrastructure;
- safety, reliability, and risk assessment of transport systems;
- logistics systems and supply chain engineering;
- modeling, simulation, and optimization of transport processes.

Energy

- energy systems and complexes;
- energy efficiency and energy saving;
- renewable and alternative energy sources;
- electrical and thermal engineering processes and systems;
- modern technologies for sustainable energy supply.

Mechanical Engineering

- mechanical engineering and machine design;
- manufacturing processes and technologies;
- mechatronics and electromechanical systems;
- engineering solutions and technologies in the context of industrial digital transformation.

Engineering Mechanics

- theoretical and applied mechanics;
- computational mechanics and numerical methods;
- mechanics of deformable solids;
- strength, reliability, and durability of machines, structures, and materials;
- mathematical and computer modeling of mechanical processes.

Biomedical Engineering

- biomedical instruments, devices, and systems;
- engineering technologies for medicine and healthcare;
- biomechanics and modeling of biological systems;
- digital and intelligent technologies in biomedical applications;
- engineering solutions for diagnosis, treatment, and rehabilitation.

Environmental Engineering

- environmental protection technologies and systems;
- rational use of natural resources;
- environmental monitoring and environmental impact assessment;
- sustainable engineering solutions for industry and urbanized areas;
- waste, water, and air resource management.

Geology, Geodesy and Cartography

- geology and Earth sciences;
- engineering geology and geotechnical studies;
- geomechanics and geotechnologies;
- hydrogeology, geophysics, and applied geochemistry;
- geodesy, cartography, and geoinformation systems;
- spatial analysis and geospatial data technologies.

The journal welcomes interdisciplinary research integrating advances in engineering sciences, Earth sciences, transport, energy, environmental, and biomedical fields. Particular attention is given to publications focused on sustainable development, innovative technologies, rational use of natural resources, as well as the integration of science, education, and industry.

2. SCIENTIFIC REQUIREMENTS FOR MANUSCRIPT PREPARATION

2.1 Publication languages: Kazakh, Russian, and English.

2.2 Originality of materials:

- Manuscripts must not have been previously published in other journals;
- Manuscripts must not be under consideration in other journals;
- The text originality must be at least 65%, and text overlap should not exceed 25% (manuscripts are checked using the Antiplagiat.com system).

2.3 Content requirements:

- Demonstration of novelty and relevance: Manuscripts submitted for publication must be original and not previously published in other print sources.
- Logical presentation: The text structure must clearly convey the research objectives, tasks, theoretical basis, and methodology. The manuscript should follow the IMRAD structure (Introduction, Methods, Results, Discussion).
- Completeness of the manuscript: Conclusions must be well-grounded and final, avoiding generally known or preliminary generalizations.
- Writing style: The manuscript must be written in an academic scientific style. Accurate use of terminology is recommended, avoiding ambiguity in the formulation and interpretation of key concepts. To maintain objectivity and formality, passive voice should be preferred to reduce subjectivity. Authors should also use inclusive language.

2.4 Submission format:

- The process of submission and peer review is carried out through an online system.
- Manuscripts are accepted in electronic form (.doc, .docx). The file size should not exceed 20 MB.
- The file name must include the surname and initials of the first author, for example, "Kulenova N.A.doc".

3. REQUIREMENTS FOR THE TITLE PAGE FORMAT

3.1 Technical parameters for formatting the title page.

All elements of the title page must comply with the following formatting rules:

- Font: *Palatino Linotype*, with no paragraph indentation;
- Main text of the title page (except for the authors' names and manuscript title) should be in 9 pt font size;
- Authors' names: 10 pt, bold, aligned to the left;
- Manuscript title: 12 pt, bold, aligned to the left.

Authors are strongly advised to use the official title page template!

The template includes a specially designed layout and fixed formatting that are mandatory to ensure a unified standard of presentation. The use of custom formatting without the official template is not allowed.

3.2 Structural elements of the title page

3.2.1 Classifiers and identifiers

In the upper left corner, indicate the SRSTI code (State Rubricator of Scientific and Technical Information) from <https://grnti.ru/>.

3.2.2 Title of the manuscript

The manuscript title should be concise and accurately reflect the content of the article.

3.2.3 Authors and affiliations

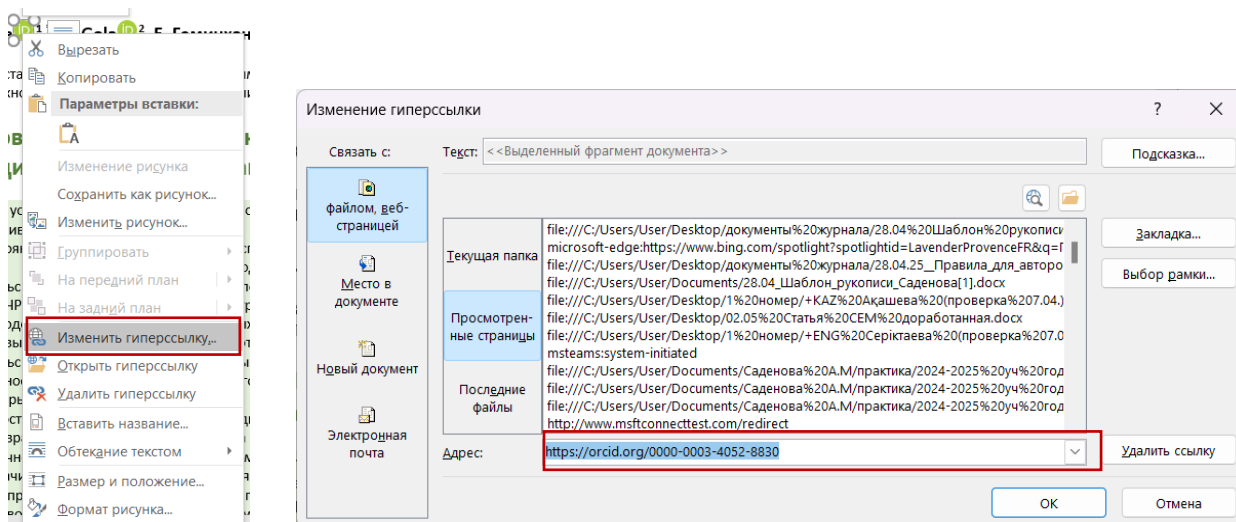
Leave one line space and list the initials and surnames of the authors (e.g., N.A. Kulenova). Transliteration of surnames into English should match the spelling used in international passports or previously published papers. If such information is unavailable, the BSI transliteration standard should be applied.

The total number of authors should not exceed 5. Co-authorship is allowed only for those who have made a significant contribution to the research, its concept, development, or interpretation of results. Individuals who do not meet authorship criteria but provided substantial assistance may be acknowledged in the "Funding and Acknowledgments" section, with a description of the nature and scope of their contribution.

Initials and surnames of the authors should be followed by superscript indices (1, 2, etc.) corresponding to their respective affiliations.

The corresponding author must also be marked with a superscript asterisk (*) following the affiliation index.

Each author's ORCID must be provided as an active icon (green ORCID badge) with a hyperlink to the individual's ORCID profile. To insert the hyperlink: right-click on the ORCID icon → select "Edit Hyperlink" → insert the link in the format <https://orcid.org/XXXXXXXXXXXXXXXX> in the "Address" field.



3.2.4 Abstract

The abstract should follow next. It must be between 150 and 250 words in length. The abstract should include the following elements: relevance of the study, objective, research methods, results, practical and theoretical significance, and directions for future research.

The abstract should not contain terms or abbreviations introduced for the first time in the article (except for widely recognized ones), nor should it include references to literature or reviews of historiography, methodology, or research methods.

3.2.5 Keywords

List 5 to 8 keywords or keyword phrases that will facilitate indexing of the manuscript in search engines. Keywords must be separated by commas.

4. REQUIREMENTS FOR FORMATTING THE MAIN TEXT OF THE MANUSCRIPT

4.1 Structure of the Manuscript

The editorial board strongly recommends that authors follow the internationally recognized IMRAD structure (Introduction, Methods, Results, Discussion).

Each scientific manuscript, regardless of its subject area or research field, must include clearly defined sections that begin on a new line and follow accepted scientific logic:

- Introduction
- Literature Review
- Materials and Methods
- Results and Discussion
- Conclusion
- References

INTRODUCTION

Clearly state the research objectives, providing necessary background without an in-depth literature review or prior presentation of results. Define the scope and aims of the research within the context of existing knowledge on the topic. Structure the text from general to specific, formulating the hypothesis, goal, and objectives of the study. Identify the research topic precisely, explain the reasons for choosing it, and highlight key trends and challenges. Apply critical analysis to key publications, identifying methodological flaws and research gaps, while proposing directions for future studies.

MATERIALS AND METHODS

Describe the research methodology in detail, including materials and procedures used. Indicate the research base, data sources, and sample selection. If the authors use confidential data from organizations, written permission must be obtained to use such data in the study.

RESULTS AND DISCUSSION

Present the main results of the study clearly and concisely, in alignment with the stated research objectives.

CONCLUSION

Provide key findings, authorial results, practical suggestions, and recommendations. If the manuscript has a non-standard nature (e.g., a review, methodological, or theoretical-conceptual paper), the structure may be adapted to suit the research specifics. However, the inclusion of the above sections remains mandatory, and any additional sections must ensure logical consistency and scientific validity of the content.

CONFLICT OF INTEREST: The authors declare no conflict of interest.

FUNDING: This section indicates the source of funding received during the research. **Example:** *"This article was prepared within the framework of the grant funding project for scientific research of the Ministry of Science and Higher Education under the topic AR19578464 'The impact of human capital quality on the level of innovation activity of entrepreneurial structures in the context of the transition to Industry 4.0 in the Republic of Kazakhstan'."*

INSTITUTIONAL REVIEW BOARD STATEMENT: This section should indicate whether the study was reviewed and approved by an Institutional Review Board (IRB) or equivalent ethics committee, and provide relevant details such as the institution and protocol number. If ethical approval was not required, authors should clearly state and justify this (e.g., because the study did not involve human participants or animals). **Example:** *"This study complied with applicable institutional and national ethical standards and was approved by the relevant Institutional Review Board where required (protocol number: [XXXX], approval date: [DD Month YYYY]); as the research was purely technical and did not involve human participants or animals, this section is marked as 'Not applicable.'"*

INFORMED CONSENT STATEMENT: This section should confirm that, where applicable, all human participants were fully informed about the purpose, procedures, and potential risks of the study and voluntarily agreed to participate, specifying whether consent was written or verbal. If the study did

not involve human participants, this should be clearly indicated. **Example:** “Written informed consent was obtained from all participants prior to their involvement in the study; if no human participants were involved, this section is marked as ‘Not applicable.’”

DATA AVAILABILITY STATEMENT: This section should describe whether the data supporting the findings of the study are publicly available, available upon reasonable request, or restricted, and indicate where they can be accessed if applicable. Authors should also state if no new data were generated or analyzed. **Example:** “The data supporting the findings of this technical study are available from the corresponding author upon reasonable request; alternatively, no new experimental data were generated as the work was based on numerical modeling and theoretical analysis.”

ACKNOWLEDGEMENTS: This section expresses gratitude to individuals and organizations that contributed to the research. For example: “The authors express their gratitude to colleagues for methodological support and helpful discussions, as well as to anonymous reviewers for valuable comments that helped improve the quality of the article.”

STATEMENT ON THE USE OF ARTIFICIAL INTELLIGENCE TECHNOLOGIES: Authors of scientific articles may use artificial intelligence (AI) tools at various stages of preparing their work, including assistance with writing, editing, fact-checking, and data analysis. However, when writing the manuscript, authors must clearly indicate the use of generative AI and related technologies in the article.

The AI model used must be cited in the reference list (*References*) in the following format: Model Name. (Year, Month Day). Prompt or content description [Large language model]. Platform name. URL

4.2 Technical Requirements for Manuscript Formatting

The article (excluding the title, author information, abstract, keywords, and reference list) must contain no fewer than 10 pages and no more than 12 pages.

Authors are strongly encouraged to use the provided manuscript template to ensure compliance with established requirements regarding structure, formatting, headings, tables, figures, and references. Using the template will help minimize technical errors and speed up the editorial review process.

4.2.1 Text:

- Format: Microsoft Word *.doc or *.docx
- Page orientation: Portrait
- Margins: Top – 3 cm, Bottom – 3 cm, Left – 3 cm, Right – 3 cm
- Text alignment: Justified
- Line spacing: Single
- Paragraph indentation: 1 cm (indentation using spaces or tabs is not allowed)
- Font color: Black (for both body text and headings)
- Hyphenation: Automatic
- Font: *Palatino Linotype*
- Font size: 10 pt
- Section headings: ALL CAPS, bold font

4.2.2 Figures:

All graphical objects must be inserted as figures.

Figures must be of high quality, suitable for printing, and equally informative in both color and black-and-white versions.

All labels and symbols should be clearly defined, either in the figure caption or in the legend that is part of the figure, and must be in the language of the manuscript.

Figures should be grouped in Word format and placed as close as possible to their first mention in the text.

Figures are numbered consecutively with Arabic numerals in the order in which they appear. If there is only one figure in the text, it is not numbered.

The figure caption must include the figure number and title.

The note below the figure should be written in 10 pt italic font, aligned to the left, with no paragraph indentation. The note should indicate the source of the figure: whether it was developed by the author(s), adapted from another source, or directly borrowed.

	Куленова, Нурпеисова и Алибеков (2022) отмечают... Куленова, Нурпеисова және Алибеков (2022) атап өтті... (Kulenova, Nurpeisova & Alibekov, 2022) Kulenova, Nurpeisova and Alibekov (2022) report...	and before the last author, the conjunction “и”, “және”, or “&” is used.
Four or more authors	(Иванов и др., 2021) (Ибраев және басқ., 2021) Иванов и др. (2021) подчеркивают... Ибраев және басқ. (2021) атап өтті... (Williams et al., 2020) Williams et al. (2020) show...	After the first surname, use “и др.” (in Russian), “және басқ.” (in Kazakh), or “et al.” (in English).
Works by the same author in the same year	(Куленова, 2021a; Куленова, 2021b) Куленова (2021a) и Куленова (2021b) отмечают... (Smith, 2021a; Smith, 2021b) Smith (2021a) and Smith (2021b) discuss...	After the year, use “a,” “b,” etc., in alphabetical order according to the titles of the works.
Citing Multiple Works by the Same Author from Different Years	(Куленова, 2019, 2021) Куленова (2019, 2021) исследует... (Smith, 2018, 2020) Smith (2018, 2020) reports...	Years are indicated in ascending order, separated by commas.
Citing works by different authors	(Куленова, 2021; Нурпеисова, 2020) (Smith, 2019; Johnson, 2021)	Sources are separated by a semicolon and arranged in alphabetical order.
Electronic source without an author	(«Отчет об управлении Национальным фондом РК», 2023) («ҚР Ұлттық қорын басқару туралы есеп», 2023) мәліметтеріне сәйкес... («Kazakhstan Innovation Report», 2022) («Kazakhstan Innovation Report», 2022) suggests...	The title of the source is indicated in quotation marks.
Organization as author	(Министерство образования РК, 2022) Министерство образования РК (2022) сообщает... (World Health Organization, 2021) WHO (2021) states...	The full name of the organization should be indicated. In case of multiple citations, an abbreviation may be used.
Report	(Отчет Всемирного банка, 2021) Всемирный банк (2021) указывает... (World Bank Report, 2021) World Bank (2021) reports...	If there is an official author, the surname or the organization should be listed first.

4.2.6 References Formatting

The list of references must include at least 15 sources, at least 5 of which must be foreign.

No more than 30% of the sources may be published more than 5 years before the submission date.

The use of articles indexed in Scopus and Web of Science within the past 5 years is encouraged.

The acceptable self-citation rate is no more than 20% of the total number of sources.

The reference list must be arranged in alphabetical order by the surname of the first author. English-language sources come first, followed by sources in other languages.

If there are multiple works by the same author, they should be arranged in ascending order by year of publication.

Titles of journals, books, and collections must be italicized.

DOIs or URLs should be included for online resources, if available.

For Russian- or Kazakh-language sources used in an English-language article, transliteration of author names and titles is mandatory, following the BSI transliteration standard. After each element in Cyrillic, a double slash (//) must be placed, followed by the transliteration. Use the following services for transliteration:

- For Russian: <http://translit.net>
- For Kazakh: <https://qazlat.kz>

Each bibliographic entry must separate its components (authors, year, title, publication) with periods.

Examples of proper formatting for different types of sources are provided in the table below.

Type of Source	Example of Reference List Formatting
Articles in academic journals	<p>Example of a source in Latin script: Yılmaz, M., & Alptekin, A. (2018). The effect of different binders on the properties of dry–mix mortars. <i>Construction and Building Materials</i>, 165, 38–46. https://doi.org/10.1016/j.conbuildmat.2018.01.005</p> <p>Example of a source in Cyrillic: Мамырханов, А.М., & Нурпеисова, А.К. (2021). Инновационная активность предпринимательских структур. <i>Экономика и бизнес</i>, 5(2), 34–50. https://doi.org/xxxx // Mamyrkhanov, A.M., & Nurpeisova, A.K. (2021). <i>Innovatsionnaya aktivnost' predprinimatel'skikh struktur</i> [Innovative activity of entrepreneurial structures]. <i>Ekonomika i biznes – Economics and Business</i>, 5(2), 34–50. https://doi.org/xxxx (In Russ.)</p>
Books	<p>Example of a source in Latin script: Kotler, P., & Keller, K. L. (2021). <i>Marketing management</i> (15th ed.). Pearson Education. https://www.pearson.com/en-us/marketing-management</p> <p>Example of a source in Cyrillic: Мамырханов, А.М. (2020). Финансовая устойчивость предприятий. Алматы: Экономика. https://xxxx // Mamyrkhanov, A.M. (2020). <i>Finansovaya ustoychivost' predpriyatii</i> [Financial stability of enterprises]. Almaty: Ekonomika. https://xxxx (In Russ.)</p>
Reports and papers	<p>Example of a source in Latin script: World Bank. (2021). <i>World Development Report 2021: Data for better lives</i>. World Bank Publications. https://www.worldbank.org/en/publication/wdr2021</p> <p>Example of a source in Cyrillic: Всемирный банк. (2021). Доклад о мировом развитии 2021: данные для лучшего будущего. https://xxxx // Vsemirnyy bank. (2021). <i>Doklad o mirovom razvitii 2021: dannye dlya luchshego budushchego</i> [World Development Report 2021: Data for better lives]. https://xxxx (In Russ.)</p>
Web pages	<p>Example of a source in Latin script: United Nations. (2023). <i>Sustainable Development Goals</i>. https://sdgs.un.org/goals</p> <p>Example of a source in Cyrillic: Министерство образования РК. (2022). Программа цифровизации образования. https://xxxx // Ministerstvo obrazovaniya RK. (2022). <i>Programma tsifrovizatsii</i></p>

	<i>obrazovaniya</i> [Digitalization program in education]. https://xxxx (In Russ.)
Internet resources	<p>Example of a source in Latin script: International Energy Agency. (2024). <i>Global EV Outlook 2024</i>. https://www.iea.org/reports/global-ev-outlook-2024</p> <p>Example of a source in Cyrillic: Национальный доклад о состоянии окружающей среды в Казахстане 2022 года. (2022). https://xxxx // Natsional'nyy doklad o sostoyanii okruzhayushchey sredy v Kazakhstane 2022 goda. (2022). [National report on the state of the environment in Kazakhstan, 2022]. https://xxxx (In Russ.)</p>
Archival materials	<p>Example of a source in Latin script: The National Archives (UK). (1945). <i>War Cabinet Memorandum on Post-War Reconstruction</i> [CAB 66/63/46]. London, United Kingdom.</p> <p>Example of a source in Cyrillic: Центральный государственный архив Республики Казахстан. (1956). Постановление о развитии научно-технической политики в Республике Казахстан [Ф. 42, Оп. 3, Д. 159]. г. Алматы, Казахстан. // Tsentral'nyy gosudarstvennyy arkhiv Respubliki Kazakhstan. (1956). <i>Postanovlenie o razvitii nauchno-tekhnicheskoy politiki v Respublike Kazakhstan</i> [Resolution on the development of scientific and technical policy in the Republic of Kazakhstan] [F. 42, Op. 3, D. 159]. Almaty, Kazakhstan. (In Russ.)</p>
Archival materials without date and title	<p>Example of a source in Latin script: U.S. National Archives. (1969). <i>Memorandum from the National Security Advisor to the President on Strategic Arms Limitation Talks</i> [Record Group 59, Entry A1 5166, Box 2412, Folder 4]. Washington, DC, United States.</p> <p>Example of a source in Cyrillic: Архив Президента Российской Федерации. (б.д.). Архивный документ [Ф. 3, Оп. 158, Д. 116, Л. 116–120]. г. Москва, Россия. // Arkhiv Prezidenta Rossiyskoy Federatsii. (n.d.). Arkhivnyy dokument [F. 3, Op. 158, D. 116, L. 116–120]. Moscow, Russia. (In Russ.)</p>
Conference proceedings	<p>Example of a source in Latin script: Smith, J. A. (2022). Digital transformation in the construction industry: Barriers and solutions. <i>Proceedings of the 10th International Conference on Engineering and Technology Innovation</i> (pp. 45–52). Tokyo, Japan: IAOE Press.</p> <p>Example of a source in Cyrillic: Иванов, А.В. (2019). Цифровизация экономики: вызовы и возможности. <i>Материалы Международной научно-практической конференции «Инновации и развитие»</i>, (с. 115–120). Алматы: КазНУ им. аль-Фараби. // Ivanov, A.V. (2019). <i>Tsifrovizatsiya ekonomiki: vyzovy i vozmozhnosti</i> [Digitalization of the economy: Challenges and opportunities]. <i>Materialy Mezhdunarodnoy nauchno-prakticheskoy konferentsii «Innovatsii i razvitiye»</i> [Proceedings of the International Scientific and Practical Conference “Innovation and Development”], (pp. 115–120). Almaty: KazNU named after al-Farabi. (In Russ.)</p>
Dissertations and abstracts	<p>Example of a source in Latin script: Anderson, L. R. (2017). <i>Innovative construction materials and their environmental impact</i> (Doctoral dissertation). Stanford University.</p> <p>Example of a source in Cyrillic: Нурпейсова, А.К. (2023). Управление инновационной активностью промышленных предприятий Республики</p>

	<p>Казахстан [Диссертация на соискание степени доктора PhD, Казахский экономический университет имени Турара Рыскулова]. //Nurpeisova, A.K. (2023). <i>Upravlenie innovatsionnoy aktivnost'yu promyshlennykh predpriyatiy Respubliki Kazakhstan</i> [Management of innovative activity of industrial enterprises of the Republic of Kazakhstan] [PhD dissertation, Turar Ryskulov Kazakh University of Economics]. (In Russ.)</p> <p>Нурпеисова, А.К. (2023). Управление инновационной активностью промышленных предприятий Республики Казахстан [Автореферат диссертации на соискание степени доктора PhD, Казахский экономический университет имени Турара Рыскулова]. //Nurpeisova, A.K. (2023). <i>Upravlenie innovatsionnoy aktivnost'yu promyshlennykh predpriyatiy Respubliki Kazakhstan</i> [Author's abstract of the PhD dissertation, Turar Ryskulov Kazakh University of Economics]. (In Russ.)</p>
Laws and regulatory legal acts	<p>Example of a source in Latin script: United States Congress. (2010). <i>Patient Protection and Affordable Care Act</i>, Pub. L. No. 111-148, 124 Stat. 119. https://www.congress.gov/bill/111th-congress/house-bill/3590</p> <p>Example of a source in Cyrillic: Республика Казахстан. (2020). Закон Республики Казахстан «О государственном управлении» от 24 мая 2020 года № 32-VI. // Respublika Kazakhstan. (2020). <i>Zakon Respubliki Kazakhstan «O gosudarstvennom upravlenii» ot 24 maya 2020 goda № 32-VI</i> [Law of the Republic of Kazakhstan “On Public Administration” dated May 24, 2020, No. 32-VI]. (In Russ.)</p>
Standards	<p>Example of a source in Latin script: International Organization for Standardization. (2015). <i>ISO 9001:2015 – Quality management systems – Requirements</i>. https://www.iso.org/standard/62085.html</p> <p>Example of a source in Cyrillic: Комитет технического регулирования и метрологии Министерства торговли и интеграции Республики Казахстан. (2019). Национальный стандарт Республики Казахстан СТ РК ISO 9001-2019 «Системы менеджмента качества. Требования» (СТ РК ISO 9001-2019). // Komitet tekhnicheskogo regulirovaniya i metrologii Ministerstva trgovli i integratsii Respubliki Kazakhstan. (2019). <i>Natsional'nyy standart Respubliki Kazakhstan ST RK ISO 9001-2019 «Sistemy menedzhmenta kachestva. Trebovaniya»</i> (ST RK ISO 9001-2019) [National Standard of the Republic of Kazakhstan ST RK ISO 9001-2019 “Quality management systems. Requirements”]. (In Russ.)</p>
Collective monograph	<p>Example of a source in Latin script: Fisher, M. M., & Levene, M. (Eds.). (2021). <i>Smart cities: Critical debates on big data, urban development and social justice</i>. Routledge. https://doi.org/10.4324/9780429279176</p> <p>Example of a source in Cyrillic: Оспанова, Ш.А. (2022). Развитие человеческого капитала в цифровую эпоху. В А.Б. Калиева (Ред.), <i>Экономика знаний: тренды и перспективы</i> (стр. 87–105). Нур-Султан: Экономика. // Ospanova, Sh.A. (2022). <i>Razvitie chelovecheskogo kapitala v tsifrovuyu epokhu</i> [Development of human capital in the digital age]. In A.B. Kaliyeva (Ed.), <i>Ekonomika znaniy: trendy i perspektivy</i> [Knowledge</p>

economy: Trends and prospects] (pp. 87–105). Nur-Sultan: Ekonomika. (In Russ.)
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Example of a reference list formatting:

REFERENCES

Drucker, P. F. (2006). *The effective executive: The definitive guide to getting things done*. HarperBusiness.

Fisher, M. M., & Levene, M. (Eds.). (2021). *Smart cities: Critical debates on big data, urban development and social justice*. Routledge. <https://doi.org/10.4324/9780429279176>

Yilmaz, M., & Alptekin, A. (2018). The effect of different binders on the properties of dry-mix mortars. *Construction and Building Materials*, 165, 38–46. <https://doi.org/10.1016/j.conbuildmat.2018.01.005>

International Energy Agency. (2024). *Global EV Outlook 2024*. <https://www.iea.org/reports/global-ev-outlook-2024>

Мамырханов, А.М. (2020). Финансовая устойчивость предприятий. Алматы: Экономика. <https://xxxx> //

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