## **BS BRICS Technical Requirements for Writing Term Papers and Theses**

**Ministry of Science and Higher Education of the Russian Federation**

**Federal state budget educational institution for higher education**

**IRKUTSK NATIONAL RESEARCH TECHNICAL UNIVERSITY**

**Baikal School of BRICS**

**BS BRICS Technical Requirements for Writing Term Papers and Theses**

УТВЕРЖДЕНО

заседанием УМК БИ БРИКС

протокол номер 6 от 18.03.2025

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# **APPLICATION SCOPE OF THE DOCUMENT**

This document outlines the requirements for text and graphic materials developed during the training process and the execution of course projects and graduate qualification works in various training areas and specialties at the Baikal Institute of the BRICS Federal State Budgetary Educational Institution of Higher Education, Irkutsk National Research Technical University.

# **REFERENCED CODES AND STANDARDS**

The following documents are referenced in this standard:

GOST 7.0.100-2018 Bibliographic record and description. General requirements and rules of compilation (last revised 01.03.2020).
Valid as a National Standard of the Russian Federation.

GOST 7.32-2017 Intergovernmental Standard. System of standards on information, librarianship and publishing. The research report. Structure and rules of presentation.

# **RESPONSIBILITY**

3.1 The Academic Council of the Institute is responsible for the identification, development and revision of changes to this standard.

3.2 The developer of this standard shall periodically review it in accordance with the established procedure according to STO 002-2018, Quality Management System.

3.3 The responsibility for the fulfillment of the requirements of this standard is assigned to the students who perform the course project (term paper), final qualification work, as well as the faculty of BS BRICS supervising the course and diploma projects.

# **GENERAL TEXT DESIGN REQUIREMENTS**

# **4.1 Text presentation**

Text presentation for the thesis must adhere to these guidelines’ requirements on a one-sidedwhite A4 standard paper.

**Font** **and Line spacing. T**he basic font color is black, printed in Times New Roman Regular, 14 pt font size, with 1.5 spacing.

**Margins.** Page margins for both textual and non-textual (e.g., figures, tables) pages are:

Top – 20 mm,

Bottom – 20 mm,

Left – 30 mm,

Right – 10 mm.

**Paragraph Indent.** All paragraph indent should be the same throughout the thesis and equal to 1.25 cm.

**Page numbering.** The pages of the diploma or term paper should be numbered in Arabic numerals, following the sequential numbering throughout the text of the report. The page number should be placed in the center of the lower part of the page without a full stop. Pages should be numbered consecutively in the Times New Roman Regular font, point size 12.

The title page should be included in the total page numbering of the diploma or term paper. The page number should not appear on the title page.

Illustrations and tables should be included in the total number of pages of the diploma or term paper.

**Quotation marks.** In a diploma or term paper use quotes corresponding to the Times New Roman font.

**Example:** “Quotation marks.”

**Hyphenatio****n.** Automatic hyphenation is required throughout the document.

The minimum acceptable length of a term paper is 20 pages.

The minimum acceptable length of a Bachelor’s thesis is 50 pages.

The minimum acceptable length of a Master’s thesis is 70 pages.

**4.2 Headings of Thesis Structure**

Names of structural elements of the thesis and term paper:

**ABSTRACT**

**CONTENTS**

**INTRODUCTION**

**CONCLUSION**

**REFERENCE LIST**

**APPENDEXIS (if needed),** serve as headings of structural elements of a term paper or a thesis.

All headings of structural elements should be centered and written in capital letters in the Times New Roman bold font, point size 14, without a period at the end, underlining or parentheses.

Each structural element and each section of the body of the report should begin on a new page.

## **4.3 Chapters, paragraphs, subparagraphs**

The main body of the paper should be written in chapters, paragraphs and, if necessary, subparagraphs. Chapters (paragraphs, subparagraphs), sections (subsections) should have clear headings briefly describing corresponding contents of chapters and paragraphs (sub-paragraphs), sections and subsections.

Paragraphs titles (subparagraphs) are in lower case letters with only the first letter capitalized. They too must be sequentially numbered (Arabic numerals) and similar to headings, use Times New Roman bold font, point size 14, with a paragraph indent of 1.25 сm without hyphens, periods, underlining or parentheses.

If the heading contains several sentences, separate them with periods. Do not hyphenate words in headings.

The spacing between chapter headings and paragraph headings should be single-line (empty line) spacing, whereas spacing between the paragraph heading and corresponding paragraph text should be single-line spacing.

**Example:**

**1 ORGANIZATIONAL AND LEGAL FRAMEWORK OF PROMISSORY NOTE CIRCULATION IN COMMERCIAL BANKS**

 **(**Single spacing)

**1.1 Legal and historical aspects of the development of bill circulation: domestic and foreign experience** (No space)

The following is the text of the work...

#

# **ILLUSTRATION DESIGN REQUIREMENTS**

Illustrations (charts, graphs, diagrams, photographs, etc.) descriptions are placed immediately after the paragraph of its first mention – on the same page on the next page if they cannot fit within the space defined.

All illustrations within the work are referred to as “Figures”. The illustrations in the main body of the paper, excluding those in the appendices, shall follow Arabic numbering sequentially.

All illustrations in the text of the thesis shall be referenced as “... in accordance with Figure 2”.

The word “Figure” and its title, printed after the explanatory text, should be positioned at the center and with no period. Use Times New Roman bold font, point size 14.

The source from which the illustration was taken must be cited. The word “Source” should be written under the title of the illustration and centered. Use Times New Roman regular font, point size 12, with 1.0 spacing.

You should do as follows.

**Example.**



**Figure 1 – Innisfree’s campaign “Hello, I’m Paper Bottle”**

Source: [10]

or



**Figure 1 – Innisfree’s campaign “Hello, I’m Paper Bottle”.**

Source: [10, p. 25]

or



**Figure 1 – Innisfree’s campaign “Hello, I’m Paper Bottle”**

Source: compiled by the author

# **TABLE DESIGN REQUIREMENTS**

The name of the table should appear above the table on the left, without paragraph indent. The table title should be capitalized without a period at the end. Use Times New Roman bold font, point size 14.

Place table immediately after the paragraph of its first mention – on the same page or the next page if they cannot fit within the space defined.

All tables in the text of the thesis shall be referenced as “Table” with its number. For tables, the font size can be reduced to 10 pt, with single spacing.

Capitalize column headings, row headings and subheadings. Headings and subheadings of the columns are listed separately without periods at the end.

Diagonal division of the table header is disallowed.

Column “No. of items” in the table should not be included.

As a rule, column numbers are arranged so that the series of numbers within the whole column are accurately aligned below each other. Also recommended is to maintain same number of decimal places for values where possible.

The source from which the table was taken must be cited. The word “Source” should be written under the table on the left. The word “Source” should be capitalized. Use Times New Roman regular font, point size 11-12, with 1.0 spacing.

You should do as follows.

**Example:**

**Table 1 – Drone usage advantages and disadvantages**

|  |  |
| --- | --- |
| Advantages | Disadvantages |
| Physically safer to use | Local regulations |
| Better visual storytelling andunique perspective | Technical malfunction |
| Cost-effective | Short battery life |
| Easier deployment | May annoy and scare victims |
| Puts disaster in context for global audience | Privacy concerns |
| Visualisation of widespread damage emitsempathy from global audience | Inexperienced pilots |

Source: [39]

or

**Table 1 – Drone usage advantages and disadvantages**

|  |  |
| --- | --- |
| Advantages | Disadvantages |
| Physically safer to use | Local regulations |
| Better visual storytelling andunique perspective | Technical malfunction |
| Cost-effective | Short battery life |
| Easier deployment | May annoy and scare victims |
| Puts disaster in context for global audience | Privacy concerns |
| Visualisation of widespread damage emitsempathy from global audience | Inexperienced pilots |

Source: [39, p. 56]

or

**Table 1 – Drone usage advantages and disadvantages**

|  |  |
| --- | --- |
| Advantages | Disadvantages |
| Physically safer to use | Local regulations |
| Better visual storytelling andunique perspective | Technical malfunction |
| Cost-effective | Short battery life |
| Easier deployment | May annoy and scare victims |
| Puts disaster in context for global audience | Privacy concerns |
| Visualisation of widespread damage emitsempathy from global audience | Inexperienced pilots |

Source: compiled by the author

When a table overlaps onto the next page, duplicate the table header, then write “Continuation of the table” or “End of table” on the left, stating the table number.

**Example:**

**Continuation of Table 1**

|  |  |  |
| --- | --- | --- |
| Year | Income | Expenses |
| Total | Including non-interest |
| 2017 | 71.1 | 60.6 | 50.6 |

or

**End of Table 1**

|  |  |  |
| --- | --- | --- |
| Year | Income | Expenses |
| Total | Including non-interest |
| 2018 | 108.7 | 77.7 | 64.4 |

Source: [39]

# **7 FORMULA DESIGN REQUIREMENTS**

Equations and formulas should be placed on a separate line from the text. There should be at least one blank line above and below each formula or equation. If an equation does not fit on one line, it shall be moved after the equals sign (=) or after the plus (+), minus (-), multiplication (x), division (:), or other mathematical sign, and the sign shall be repeated at the beginning of the next line. When transposing a formula to a character that symbolizes a multiplication operation, use the “x” character.

Explanations of the meaning of symbols and numerical coefficients shall be given immediately below the formula in the same order in which they appear in the formula.

Formulae in the report shall be numbered consecutively throughout the report, with Arabic numerals in parentheses at the rightmost position on the line. A formula shall be labeled – (1). References to formula numbers in the text shall be in parentheses: “... in formula (1)”.

**Example:**

The NPV of a project can be calculated using the formula:

 $NPV= -IC+\sum\_{t=1}^{n}CF\_{t}/(1+r)^{t}$(1)

where: IC – initial invested capital; CF – cash flow from investments in the t-the year; r – discount rate; n – project duration

Using the formula (1) is relatively simple if all variables are defined (initial investments, revenue, expenses, and capital costs, etc.), but in practice, it is not that straightforward.

Formulae in appendices shall be numbered separately in Arabic numerals within each appendix, with the appendix designation preceding each number, e. g. formula (B.1).

The order of mathematical equations in the report is the same as for formulas.

The formula editor should be used to type formulas.

# **8 REQUIREMENTS FOR PLACING CODE IN THE TEXT**

The following recommendations should be adhered to when designing program code in term papers and graduate qualification works.

**Font**. Use a monospaced font to display the code to ensure uniform character widths and improve readability, such as Courier New (10 or 12 point font size based on code readability).

**Indent and spaces.** The code should be structured using indents to visually highlight blocks. This helps the reader to better understand the program structure.

**Comments.** Each significant piece of code or function should be preceded by comments explaining its purpose.

**Code line numbering.** In some cases, it may be necessary to number lines for easy reference to certain parts of the code within the main text.

**Formatting a code fragment in the text.** The code should be separated into a separate block on a gray background. Highlighting keywords in the code is performed according to the generally accepted standards for the corresponding programming language, but is not mandatory. Single spacing is applied to the text with code.

**Appendices.** If the code is long enough, it can be placed in the appendix of the paper with a reference to it in the main text (see an example of code layout in the appendix below).

The code formatting is presented in examples 1, 2 (within the text), 3 (in the appendix).

**Example 1.** Placing code inside the main text.

python

# Импорт библиотеки

import math

def calculate\_distance(point1, point2):

"""

A function to calculate the Euclidean distance between two points.

 Arguments:

 point1 -- first point, a tuple of two numbers (x, y)

 point2 -- second point, a tuple of two numbers (x, y)

 Return value:

 Distance between two points

"""

x1, y1 = point1

x2, y2 = point2

 return math.sqrt((x2 - x1)\*\*2 + (y2 - y1)\*\*2)

**Explanation:**

1. **Import library:** import math - indicates that the math library for mathematical operations is used.
2. **To define the function calculate\_distance (point1, point2)**: Defines a function to calculate the Euclidean distance.
3. **Documenting a function (docstring):** usetriple quotes """ """ to describe the function, its arguments and return value. This is an important part of code documentation.
4. **Arguments of the function:** point1 and point2 are tuples representing the coordinates of two points.

**5. Instructions inside the function:** calculate distance.

- x1, y1 = point1 and x2, y2 = point2 - unpacks coordinates from tuples.

- return math.sqrt((x2 - x1)\*\*2 + (y2 - y1)\*\*2) - calculates the Euclidean distance using the formula and returns the result.

This example demonstrates how a well-documented and structured code meets the principles of readability and clarity.

**Example 2.** Placement of code in the text while describing the logic of its use.

Use the following code to load the dataset:

from sklearn.datasets import load\_wine

wine\_data = load\_wine()

Executing the above code returns a dictionary-like object that contains data along with metadata about the data it contains. The data we need is in the .data key of the dictionary-like object, but since it is not a real dictionary, we can access it as an attribute of a wine\_data instance as follows:

wine\_data.data

**Example 3.** Formalizing the application for placing the program code listing

**APPENDIX A**

**Listing A.1 - Creating a GIF animation from a list of RGBA NumPy**

from moviepy.editor import ImageSequenceClip

# !pip install moviepy - if you don’t have moviepy

def create\_gif(frames: dict, filename, fps=100):

 """

 Creates a GIF animation from a list of RGBA NumPy arrays.

 Args:

 frames: A list of RGBA NumPy arrays representing the animation frames.

 filename: The output filename for the GIF animation.

 fps: The frames per second of the animation (default: 10).

 """

 rgba\_frames = [frame["frame"] for frame in frames]

 clip = ImageSequenceClip(rgba\_frames, fps=fps)

 clip.write\_gif(filename, fps=fps)

# Example usage

create\_gif(frames, "animation.gif") #saves the GIF locally

# **HOW TO DESIGN REFERENCE LIST**

## **9.1 General requirements for designing the reference list**

The bibliography of the diploma or term paper should be in accordance with the Russian standard GOST 7.0.100-2018.

The references appear as a list of bibliographic records used in-text and as end text references (reference list placed at the end of the document), should be numbered in Arabic numerals and printed with a paragraph indent of 1.25 сm.

Sources (bibliographic records) in the reference list are arranged in the order in which the sources are cited in the text.

The bibliographic record is made in the language in which the source was published.

In-text bibliographic reference is made out in square brackets. Numbers in square brackets indicate the number of the document in the reference list. If a direct quotation from the text is given, the page number is given after the comma.

###### **Example:** [34], or [14, p. 312].

###### The reference list should include all works cited in the text and/or other works that you have also consulted in the course of researching and writing the paper.

###### **Examples of bibliographic description**

* + 1. **Books**

Books of one, two or three authors are described under the name of the first author:

**A book by the one author**

 Lavrushin, O. I. Banking. Practicum: textbook for academic bachelor’s degree / O. I. Lavrushin. – 2nd ed., revised and additional. – M. : Yurait, 2019. – 234 p.

**A book by two authors:**

 Chaldaeva, A. V. Economics of organization: textbook and workshop for universities / L. A. Chaldaeva, A. V. Sharkova. – 2nd ed., revised and additional – M. : Yurait, 2019. – 361 p.

**A book by three authors:**

Arkhipova, M. Yu. Investments in the innovation process: monograph / M. Yu. Arkhipova, V. E. Afonina, Zh. M. Sargsyan – M. : Rusajns, 2019. – 238 p.

**A book by four authors:**

If there are four authors, the book is described below the title, with all four authors listed after a slash.

Нормативно-правовые основы селекции и семеноводства : учебное пособие / А. Н. Березкин, А. М. Малько, Е. Л. Минина, В. М. Лапочкин. – Санкт-Петербург : Лань, 2016. – 252 с.

**A book by five and more authors:**

If there are five or more authors, the surnames of the first three authors are given with a slash after the title, followed by [et al] in square brackets.

Reporting Disaster on Deadline : A Handbook for Students and Professionals / L. Wilkins, M. Steffens, E. Thorson [et al.]. – 1st edition. – New York : Routledge, 2012. – 152 p.

**9.2.2 Journal articles**

When describing articles from journals, the author of the article, its title are indicated, then, after two slashes, indicate the name of the journal in which it was published, year, number, pages on which the article is placed.

**Article by one author:**

Golbraikh, V. Why did the «Siberian Chernobyl» happen? The accident at Sayano-Shushenskaya hydroelectric power plant in the Russian blogosphere / V. Golbraikh // Telescope. – 2011. – № 6. – P. 39-45.

Fama, E. F. Efficient capital markets / E. F. Fama // Journal of finance. – 1970. – Vol. 25, № 2. – P. 383-417.

**Article by two authors:**

 Shupletsov, A. F. System modeling and development of elements of the mechanism of investment decisions in the construction industry of the region / A. F. Shupletsov, G. I. Ivanova // Izvestiya vuzov. Investments. Construction. Real estate. - 2018. – Vol. 8, № 1. – P. 109-120.

 **Article by three authors:**

 Abdukhanov, N. G. Analysis of the likelihood of reducing risks in the investment and construction industry through the use of blockchain technology / N. G. Abdukhanov, G. D. Kamaletdinova, G. R. Zeinetdinova // Finance and Credit. – 2019. – № 25. – P. 1907-1917.

**An article by four authors:**

If there are four authors, the article title should come first, followed by the list of four authors after a slash.

Title of the article / Author, Author, Author, Author // Name of the journal. – year. – № . – Pages.

**An article by five or more authors:**

If there are five or more authors, the article title should come first, followed by the names of the first three authors and [et al] in square brackets after a slash.

To the question of the system of financial and legal regulation / A. S. Chueva, T. P. Zakharova, L. A. Petrova [et al.] // Humanitarian, socio-economic and social sciences. – 2018. – № 3. – P. 1-6.

**9.2.3 Official papers, laws, reports from Internet.**

**An official paper:**

Universal Declaration of Human Rights : Article 19: Right to freedom of opinion and expression : [dated 10.12.1948]. – Text : electronic // United Nations : official site. – URL: https://www.un.org/en/about-us/universal-declaration-of-human-rights (accessed 28.03.2024).

**9.2.4** **News, articles, videos from internet**

**News:**

RIA News : official site. – URL: https://ria.ru/accident\_
Sayno\_Shushenskaya\_hydro\_power\_17082009/ (accessed 25.04.2024). – Text : electronic.

**Article:**

Vasilyeva, N. Russia knew power plant was unsafe a decade ago / N. Vasilyeva. – Text : electronic // The Independent : [official site]. – 2009. – August, 23. – URL: https://www.independent.co.uk/news/world/europe/russia-knew-power-plant-was-unsafe-a-decade-ago-1776187.html (accessed 25.04.2024).

**Video from YouTube:**

Language and Meaning: Crash Course Philosophy # 26 // YouTube. – URL: https://www.youtube.com/watch?v=zmwgmt7wcv8 (accessed: 09.04.2024).

# **APPENDIX A**

## **Example of the reference lists**

**REFERENCE LIST**

1. Anderson, J. Understanding Intrinsic Value in Investment Analysis / J. Anderson // Journal of Financial Analysis. – 2023. – Vol. 38, № 2. – P. 112–130.
2. Thompson, L. Calculating Intrinsic Value: A Comprehensive Guide / L. Thompson, R. Patel // Investment Strategies Review. – 2024. – Vol. 15, № 1. – P. 45–60.
3. Чалдаева, А. В. Экономика организации: учебник и практикум для вузов / Л. А. Чалдаева, А. В. Шаркова. – 2-е изд. переработанное и дополненное – М. : Юрайт, 2019. – 361 с.
4. Williams, S. The Importance of Intrinsic Value in Stock Valuation / S. Williams, T. Brown // Financial Insights Journal. – 2022. – Vol. 27, № 4. – P. 200–215.
5. Johnson, A. Investment Valuation Techniques: A Focus on Intrinsic Value / A. Johnson, K. Lee // Journal of Investment Research. – 2023. – Vol. 22, № 3. – P. 75–90.
6. Garcia, M., Kim, H. Intrinsic Value and Market Perception: A Dual Approach / M. Garcia, H. Kim // Global Finance Journal. – 2024. – Vol. 19, № 2. – P. 150–165.
7. Nguyen, D. Valuation Models: Understanding Intrinsic Value Calculations / D. Nguyen, P. Chen // Journal of Financial Economics. – 2023. – Vol. 31, № 5. – P. 300–315.
8. Adams, R. The Role of Intrinsic Value in Long-Term Investment Strategies / R. Adams, J. Smith // Strategic Investment Journal. – 2022. – Vol. 10, № 1. – P. 22–38.
9. К вопросу о системе финансово-правового регулирования / А. С. Чуева, Т. П. Захарова, Л. А. Петрова [и др.] // Гуманитарные, социально-экономические и общественные науки. – 2018. – № 3. – С. 1-6.
10. Martinez, F. Common Pitfalls in Intrinsic Value Assessment / F. Martinez, E. Lopez // Journal of Financial Planning. – 2023. – Vol. 18, № 4. – P. 90–105.
11. Wilson, N. Intrinsic Value and Its Impact on Investment Decisions / N. Wilson, A. Patel // Journal of Economic Perspectives. – 2024. – Vol. 29, № 3. – P. 45–60.
12. Taylor, S. The Art and Science of Valuation: Intrinsic Value Explained / S. Taylor, M. Robinson // Valuation Review. – 2023. – Vol. 12, № 2. – P. 110–125.
13. Qualitative Analysis. – Text: electronic // Investopedia : official site. – URL: https://www.investopedia.com/terms/q/qualitativeanalysis.asp (accessed: 08.12.2024).
14. Quantitative Analysis. – Text: electronic // Investopedia : official site. – URL: https://www.investopedia.com/terms/q/quantitativeanalysis.asp (accessed: 08.12.2024).
15. Stock Analysis: Different Methods for Evaluating Stocks. – Text: electronic // Investopedia : official site. – URL: https://www.investopedia.com/terms/s/stock-analysis.asp (accessed: 08.12.2024).

# **APPENDIX B**

## **Example of the page with the contents**

**CONTENTS**

[INTRODUCTION 6](#_Toc28528)

[1. THEORETICAL BASIS OF THE RESEARCH PROBLEM 10](#_Toc32048)

[1.1 Disaster Journalism: key concepts and genres 10](#_Toc153)

[1.2 Specificity of Disaster Journalism: Ethical and Legal Aspects 15](#_Toc27662)

[1.3 Principles of a journalist’s work and personal qualities of a disaster journalist 22](#_Toc5522)

[2. COVERAGE OF THE TECHNOGENIC DISASTER OF THE XXI CENTURY 27](#_Toc11914)

[2.1 Coverage of the accident at the Sayano-Shushenskaya hydroelectric power plant 29](#_Toc22410)

[2.2 Coverage of the Tianjin explosions 34](#_Toc9086)

[2.3 Coverage of the Fukushima-1 nuclear accident 37](#_Toc17075)

[3. PROSPECTS IN THE PRACTICE OF THE DISASTER JOURNALISM 45](#_Toc5141)

[3.1 Disaster journalism: modern experience and challenges 45](#_Toc10848)

[3.2 Potential changes in the future of the disaster journalism 52](#_Toc16857)

[CONCLUSION 59](#_Toc16214)

[REFERENCES 61](#_Toc16982)

# **APPENDIX C**

## **Example of the title page for term paper**

**Ministry of Science and Higher Education of the Russian Federation**

**Federal state budget educational institution for higher education**

**IRKUTSK NATIONAL RESEARCH TECHNICAL UNIVERSITY**

**Baikal School of BRICS**

**TERM PAPER**

**EVALUATING INTRINSIC VALUE IN INVESTMENT DECISION-MAKING: CASE OF MTS**

**Student’s name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Zakhar Bronnikov**

**Group IEb-21-1**

**Academic and Standard Supervisor:**

**PhD in Philosophy \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Liubov A. Bogodelnikova**

**Irkutsk, 2024**

# **APPENDIX D**

## **Example of the title page for bachelor thesis**

**Ministry of Science and Higher Education of the Russian Federation**

**Federal state budget educational institution for higher education**

**IRKUTSK NATIONAL RESEARCH TECHNICAL UNIVERSITY**

**Baikal School of BRICS**

**42.03.02 JOURNALISM**

код и направление подготовки / field of study

**Журналистика и коммуникативные технологии / Journalism and communications**

Программа бакалавриата / degree program

**Approved by**

Dean of Baikal School of BRICS:

Prof. Anna P. Kireenko

June 14, 2025

**BACHELOR’S THESIS**

**DISASTER JOURNALISM: MEDIA COVERAGE OF TECHNOGENIC DISASTERS OF THE XXI CENTURY**

**Student’s name: \_\_\_\_\_\_\_\_\_\_\_ Kirill A. Porotov**

Group JCb-20-1

**Academic Supervisor:**

PhD in Philosophy  **\_\_\_\_\_\_\_\_\_\_\_**  **Liubov A. Bogodelnikova**

**Standard Supervisor:**

PhD in Philosophy  **\_\_\_\_\_\_\_\_\_\_\_** **Liubov A. Bogodelnikova**

**Irkutsk, 2025**

**Ministry of Science and Higher Education of the Russian Federation**

**Federal state budget educational institution for higher education**

**IRKUTSK NATIONAL RESEARCH TECHNICAL UNIVERSITY**

**Baikal School of BRICS**

**38.03.01 ECONOMICS**

код и направление подготовки / field of study

**Устойчивая инновационная экономика / Sustainable innovative economics**

Программа бакалавриата / degree program

**Approved by**

Dean of Baikal School of BRICS:

Prof. Anna P. Kireenko

June 14, 2024

**BACHELOR’S THESIS**

**EVOLUTION OF TECHNICAL ANALYSIS METHODS IN THE FRAMEWORK OF INCREASING UNCERTAINTY AND GEO-POLITICAL RISKS**

**Student’s name:** \_\_\_\_\_\_\_\_\_\_\_ **Vlad B. Bakhaev**

Group IEb-20-1

**Academic Supervisor:**

Dr. in Economics \_\_\_\_\_\_\_\_\_\_\_ **Vadim I. Loktionov**

**Standard Supervisor:**

Dr. in Economics \_\_\_\_\_\_\_\_\_\_\_ **Vadim I. Loktionov**

**Irkutsk, 2024**

# **APPENDIX E**

## **Example of the page for thesis assignment**

**Ministry of Science and Higher Education of the Russian Federation**

**Federal state budget educational institution for higher education**

**IRKUTSK NATIONAL RESEARCH TECHNICAL UNIVERSITY**

**Baikal School of BRICS**

**APPROVED BY**

Dean \_\_\_\_\_\_\_\_\_\_\_\_\_\_Anna P. Kireenko

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**ASSIGNMENT**

For the Bachelor’s Thesis of a student of the IEb-20-1 group

1. Thesis Topic: **Evolution of technical analysis methods in the framework of increasing uncertainty and geo-political risks**

Approved by the order of the University of 06.05.2024, No. 1120

2. The deadline for the student to submit the completed project to the State Electoral Commission is June 14, 2024.

3. Data: statistics

4. Thesis contents: Evolution of technical analysis methods in the framework of increasing uncertainty and geo-political risks

5. Additional tasks and instructions NONE

6. Consultants for the work NONE

Date of issue, May, 03, 2024

**Time schedule**

|  |  |
| --- | --- |
| Thesis components  | Months and weeks |
| April | May | June |  |
| 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| Introduction | x |  | x |  |  |  |  |  | x | x |  |  |  |  |  |  |
| 1 Theoretical bases of the research problem  | x |  | х |  |  |  |  | x |  | x |  |  |  |  |  |  |
| 2 Empirical studies in the field of research  |  |  | х |  | x | x | x |  | x | x |  |  |  |  |  |  |
| 3 Project proposal  |  |  |  |  |  |  | x | x |  | x |  |  |  |  |  |  |
| Conclusion and references |  |  |  |  |  |  |  |  |  | x |  |  |  |  |  |  |
| Finalization |  |  |  |  |  |  |  |  |  | x | x |  |  |  |  |  |

Academic Supervisor:

Dr. in Economics \_\_\_\_\_\_\_\_\_\_\_\_\_ Vadim I. Loktionov

 signature name

Dean:

Professor \_\_\_\_\_\_\_\_\_\_\_\_\_ Anna P. Kireenko

 signature name

The task was accepted by the student: \_\_\_\_\_\_\_\_\_\_\_\_\_ Vlad B. Bakhaev

 signature name

The plan is fully implemented

Academic Supervisor:

Dr. in Economics \_\_\_\_\_\_\_\_\_\_\_\_\_ Vadim I. Loktionov

 signature name

June, 14, 2024

# **APPENDIX F**

## **Example of the page for thesis summary**

**SUMMARY**

**Number of pages:** 68
**Number of pictures:** 12
**Number of tables:** 0
**Number of sources:** 50
**Appendixes:** No

Thesis deals with the evolution of technical analysis methods in the context of increasing uncertainty and geopolitical risks.

The object of the research is transactions in financial markets.

The subject of the work is technical analysis methods as a decision making tool in financial transactions, particularly their effectiveness amidst increasing market uncertainty and geopolitical risks.

Chapter 1 is devoted to theoretical foundations of technical analysis. It studies the characteristics of technical analysis, shows advantages and limitations of technical analysis methods, and explores the concepts of risk and uncertainty in the context of technical analysis.

Chapter 2 is devoted to evolution of technical analysis methods. It studies the development from early methods and pioneers to contemporary methods, including the impact of technological advancements and modern tools.

Chapter 3 analyzes the impact of geopolitical tensions on the reliability of technical analysis methods. It examines the role of high volatility and includes a case study on the reliability of technical indicators during the geopolitical crisis of 2014, providing practical recommendations for improving the robustness of technical analysis in uncertain environments.