**江苏科技大学本科毕业设计(论文)撰写规范**

Jiangsu university of science and technology undergraduate graduation design (thesis) writing norms

1．Content and order of design(thesis)：

The content and order of the paper are generally: cover, graduation design task book(毕业设计任务书), English abstract, catalog, thesis body, acknowledgment, references and appendices

2．Dissertation format requirements:

The thesis should be written in accordance with the format requirements of the undergraduate thesis of Jiangsu university of science and technology. Unified computer printing. A4 copy paper should be used for all paper sizes. Format requirements see the template, the number of words in the thesis is not less than 12,000 words.

3. Content requirements

3.1 Title

The topic should reflect the research content of the subject appropriately and accurately. The paper title should not exceed 25 words in general.

3.2 Abstract and keywords

3.2.1 Abstract

Abstract is a short statement that does not note or comment on the content of the graduation design (thesis). It is independent and self-contained. It summarizes the content, methods, and views of the design (thesis), as well as the results and conclusions obtained, and should reflect the essence of the whole content. Generally not less than 300 words are required.

3.2.2 Keywords

Keywords are subject terms for retrieval, and general technical terms that can cover the main content of the paper should be used. Keywords are generally listed 3-5.

3.3 Thesis body

The main body of the thesis includes the introduction, the main body and the conclusion etc.

3.3.1 Introduction

Introduction is generally used as the first chapter. The introduction should generally include: the academic background of this research topic and its theoretical and practical significance; Domestic and foreign literature review (can also only write domestic conditions); Research progress and achievements in related fields, existing deficiencies or problems to be further studied and solved; The main research content of this topic.

3.3.2 Thesis body

The main body of the thesis is the main part of the graduation design thesis, should be reasonable structure, clear hierarchy, emphasis, text concise, smooth. Content may vary depending on the subject, topic selection, research method, etc. involved in the research work, generally including the object of study, theoretical principles and methods, design methods and results, calculation methods and results, experiment and observation methods, equipment, materials, raw materials, the results of the experiment and observation, the chart data, after processing, form of argument and conclusion, etc.

The main body of the thesis should include the following aspects:

The overall scheme design and selection demonstration of the research content;

The design and calculation of each part of the research content (including hardware and software);

Processing and analysis of experimental results and data;

3.3.3 Conclusion

The conclusion includes the summary and synthesis of the whole graduation design (thesis) work, including the comparison between the results obtained and the existing results and the existing problems, as well as the opinions and suggestions for further research. The conclusion mainly reflects the author's research results and expresses the author's opinions on the research topic. It is the essence of the whole paper and the embodiment of the article's value. The conclusion should be written in a general and brief way.

The conclusion of graduation project paper is written separately as the last chapter of the thesis body, but no chapter number is added.

3.4 References

The bibliography of references shall be arranged in the order of citation in the paper, uniformly listed at the back of the whole paper, and the serial number of citation shall be marked with corresponding marks in the paper. Total number of references: no less than 20 papers.

3.5 Acknowledgment

Acknowledgment should be in a short text to the subject research and thesis writing process has been directly to help the personnel express their gratitude, content should be simple and clear, practical and realistic.

4. Write rules

4.1 number of words in the body of the thesis

The number of words of undergraduate graduation design thesis is not less than 12,000 words (including charts and catalog, conclusion, etc.).

4.2 Thesis writing

The dissertation shall be written in accordance with the format requirements of the undergraduate graduation thesis of Jiangsu University of science and technology. It shall be uniformly printed by computer. The paper size shall be A4 copy paper. Format requirements see the template; the number of words in the paper is not less than 12,000 words.

4.3 Catalog

The paper catalog shall include the title and page number of all chapters and sections of the paper, including the following contents:

Body section titles (level 3 headings are required, i.e. X.X.X, and the title needs to be written in the top, 1 indent for level 2 headings, and 1 indent for level 3 headings). Including conclusions.

Reference

Acknowledgment

Appendix (Papers on computer programming topics, program source code, print and appendix here)

4.4 Thesis body

4.4.1 Chapter and chapter titles

The main body of the thesis is divided into chapters, each chapter should start with a new page. Conclusions, references, acknowledgment, etc., are on another page.

Each chapter title should highlight key points, concise and to the point. The number of words should be generally within 15 words. Punctuation is not allowed.

4.4.2Level

Less hierarchy is appropriate, according to the actual needs of choice. The following format is recommended for the hierarchical code:

Table 1 hierarchy code and description

|  |  |  |
| --- | --- | --- |
| Hierarchical name | Real cases | Instructions |
| chapter | * Chapter One

Chapter 1□□◇◇◇◇◇ | Chapter order and chapter name in the middle row |
| section | 1.1□◇◇◇◇◇ | Write in the top case of the title, with one blank space between the title, the following describes the content of another paragraph |
| strip | 1.1.1□◇◇◇◇◇ |
| paragraph | 1.1.1.1□◇◇◇□☆☆☆ | And the title of a blank space, the following content after the title of an empty space after the row. |

□－Said the blank space ☆－Body content

4.5 References

The marking of the cited documents in the body should be placed in the upper right corner of the last word of the quoted content, the cited references number should be placed in square brackets "[]" with Arabic numerals, and the upper corner of small four-point font should be marked, such as "hull structure [2]". When the references mentioned are directly explained in Chinese, the font of the same size as the body should be aligned with the body, for example, "it can be known from literature [2]".

4.6 Noun terms

Technical terms and the names of equipment and components shall be those specified in national standards or ministerial standards. Terms not specified in the standard shall adopt industry common terms or names. Full text noun term must be unified.

4.7 Insert table

Each table should have a title (consisting of table order and table name). Table order is generally arranged according to chapter, such as the first inserted table in chapter 1 with the serial number "table 1-1". Table with three lines table, table order and table name between a blank space, table name is not allowed to use punctuation, table name without punctuation. The title is placed on the table and a number 5 word size is required (including the contents of the table).

If the entire table USES the same unit, move the unit symbol to the upper right corner of the table header with parentheses.

4.8 Illustrations

Illustrations should closely match the text, conform to the text and pictures, the content is correct. Choose pictures to be concise.

The picture is placed at the bottom of the picture.Request word size 5

4.9 References

The writing format of the reference should conform to BG7714-87<< the rules for the description of the reference after article>>. The commonly used references are listed as follows:

Books and documents

Serial number □Author. (Note: it should be a small point and an empty one, the same as below )the title of a book.（It should be a small point and an empty one(应为小点，并空一格), the same as below）publishing house.（It should be a small point and an empty one(应为小点，并空一格), the same as below）Publication Year：Introduction of the beginning and ending pages.

Example：Feng Duan. Physics of metals, vol. 3, mechanical properties of metals. Science Press. 1999：132－144

Translation of books and documents

Serial number □Author. Book name. Translator. Publishing house. Publication Year:

References to partial start and end pages

Example：Johnson.Titanium alloy melting .Translated by Ma Chen and Zhang Chengjun. Science Press. 2000：112－121

Academic journal literature

Serial number □Author. Article name. Academic journal name. Year, volume (period) : quote part of the beginning and end pages.

Example［1］Zhang Erlin, Jin Yunxue, Zeng Songyan, etc.Effect of in situ autogenous TiCP/Ti composites on microstructure and aluminum content. Chinese Journal of Materials Research. 2001，4(3)：25－28

Academic conference paper

Serial number □Author. Article name. Editor's name. Conference Name， Conference location，Year.Place of publication, publishing house, publication year: reference to part of the beginning and ending page

Example：Yan Aimin. The status quo and development countermeasures of China's foundry industry. Fujian Mechanical Engineering Society Foundry Society. The 4th 20th Province Foundry Academic Conference Proceedings, Wuyishan. 2002：1－8

Dissertation References

No. □ Graduate Name. Dissertation Title. School and Dissertation Level. Year of Defense: Reference Partial Start and End Page

If the academic conference publishes a collection of papers, the words "thesis" may be added after the name of the conference. Those who have not published the collection will save the "publishing" and "publishing year". The place where the meeting address is the same as the place of publication omits the "place of publication". The year of the meeting is the same as the year of publication, omitting the "year of publication".

Example: Ma Mingxi. Study on the Microstructure and Damping Properties of TiC/2024 Composites. PhD thesis of Harbin Institute of Technology. 1999: 25-31

4.10 Physical quantity name symbol and unit of measure

4.10.1 Names and symbols of physical quantities

The name of the physical quantity shall comply with the provisions of GB3100~3102-86 (that is, the physical quantity name and symbol of the international standard shall be adopted). A certain amount of names and symbols in the paper should be uniform.

The sign of the physical quantity must be in italics. It is also used in italics when the symbol indicating the physical quantity is subscripted.

4.10.2 Physical quantity measurement unit

The physical quantity measurement unit and symbol shall be implemented in accordance with the <<Statutory Unit of the People's Republic of China>>issued by the State Council in 1984 (refer to the Appendix) and GB3100~3102, and illegal measurement units and symbols shall not be used. The unit of measurement can be Chinese characters or symbols, but should be unified before and after. Unit of measure symbol, except for the first letter of the unit named by the person name, all lowercase letters are used.

Non-physical units (such as pieces, stations, people, yuan, secondary, etc.) can be mixed with Chinese characters and unit symbols, such as "10,000 t · km", "t / (person · a)" and so on.

The Chinese unit of measure symbol, such as "several kilograms to 1000kg", is allowed after the indefinite number in the manuscript.

When expressing the moment, the Chinese unit of measurement should be used, such as "A quarter to eight in the morning", can not be written as "8h45min"

The unit of measurement is always used

5. Typesetting and printing requirements

5.1 Abstract

The English abstract uses the "Time New Roman" font number four; the line spacing is set to: 1.5 times the line spacing.

5.2 Catalog

 catalog（small two Times Roman Bold）

（Natural space two rows ）

Chapter 1 XXXXXXXX ……………(1) （small three Times Roman Bold）

1.1            XXXXXX……………(2) （Times Roman small four）

1.1.1 XXXXX……………(6) （Times Roman small four）

Chapter 2 XXXXXXXXXX………… (40)

5.3 Font requirements of the thesis body

Each chapter title is centered, the second is Times Roman bold; each topic is on the top left side, and the third is Times Roman bold; each section is titled left top edge and small three Times Roman bold. The word size of the text uses the fourth "Times New Roman" English font, and the first line of each natural paragraph is indented by 2 characters.

5.4 line spacing requirements

The spacing between each topic and each topic is set: 1.5 times the line spacing after each chapter and 0.5 lines after the paragraph.

The line spacing between each topic and the section title: 1.5 times the line spacing after each section and 0.5 lines after the section.

5.5 Section numbering of the thesis body

★ Chapter, written as: Chapter 1, Chapter 2.......

★ Section, prepared as: 1. 1, 1. 2......, 2. 1, 2. 2. 2..

★ Small section, prepared as: 1. 1. 1, 1. 1. 2...

 ★ Level below the small section, first in the order of parentheses, such as (1), (2)...; then in the order of circles, such as 1, 2.... The hierarchy is in the following format:

E.g:

Chapter 1 XXXXXXXX (Times New Roman, word size 2, Bold)

(1.5 times the line spacing, 0.5 lines before the paragraph, 0.5 lines after the paragraph)

1. 1 XXXXXXXX (Times New Roman, word size 3, Bold) (1.5 times the line spacing, 0.5 lines after the paragraph)

1.1. 1, xxxxxx (Times New Roman, word size 3, Bold)

(The first line is indented by 2 characters) (1) xxxxx (Times New Roman, word size 4)

(The first line is indented by 2 characters) 1 xxxxxx (Times New Roman, word size 4)

(Skip a line)

5.6 Formulas, diagrams and tables for graduation design (thesis)

★ The formula numbers are numbered in chapters. For example, (2-4) indicates the fourth formula in Chapter 2.

★ The formula should use the formula to edit the application input, select the default format, the formula number is right aligned, and the formula is adjusted to the basic center.

★ The figures and tables are numbered in chapters, as shown in Figure 3-5, which shows the fifth picture in Chapter 3.

★ The drawings and tables should have corresponding names, and the requirements table is a three-line table.

★ The sequence and picture name are centered below the figure.

★ The table and table names are placed above the table.

5.7 Graduation design (thesis) references

The reference uses Times New Roman, word size 5. The references to the text in the text should be marked in square brackets. For example, "...efficiency can be increased by 25% [2]". This result is quoted from Document 2. The specific recording format is as follows:

[Journal] serial number author (not more than 3 people all written, more than only the top three, followed by "etc" or "et al.") title, journal name , year, volume (period): start and end pages. 

[Monograph] Serial number Author . Book name . Version (first edition does not write). Place of publication. Publisher, year . Start and end page.

[Patent] Serial number patent applicant. Patent title. Patent country, patent number. Year\_month\_day.

5.8 Cover

The cover format is shown in the uniform format provided in the attachment.

5.9 Header and footer

Apply by template

Jiangsu University Of Science And Technology

Undergraduate course design (thesis)

Learning institute ( Word size Four Bold )

Profession (Four Bold)

Student Name (Four Bold)

Class and Student ID (Four Bold)

Tutor (Four Bold)

Year Month

This page is in an enclosed format.

Jiangsu university of science and technology undergraduate graduation thesis

（No.4, Times New Roman, center）

**Thesis title**

 （Number two, boldface, center）

English Title

 (Times New Roman 16)

The above content according to the actual situation rewrite.
The topic should be short, clear, general, generally not more than 25 words

Add graduation design task book

**Abstract（Small two，Times New Roman，Bold center）**

（small four，**Times New Roman**，1.5 times the row spacing **）** In situ TiC particles reinforced titanium alloy matrix composites were successfully fabricated using melting and casting technique. Morphology changing and growth habit of TiC in Ti matrix composites and the effects of as-cast microstructure and heat treatment on TiC morphology were investigated. The properties and tensile fracture behaviors were also tested. These experiments were carried out on OM, SEM, EPMA, TEM, HREM, XRD, EDS, WDS, MPM and in situ SEM tensile.

**Keywords:** **（Three Times New Roman Bold）** titanium alloy; TiC; growth habit; morphology; heat treatment

There is no page number on the cover

The page Numbers before the text are in Roman ：Ⅰ，Ⅱ，Ⅲ，Ⅳ center

The pages of the text are numbered ：1，2，3，4 center

Catalog **（**Small two song bold, centered**）**

 **Chapter 1 Introduction**

 **（Times New Roman three, bold** **）**-------------------------------------1

1.1 research background (small four song style) -----------------------------------------------------------------------1

**Chapter 2 Macroscopic and microscopic constitutive models of composite materials high precision universal cellular model -------------------------------------------------------------------------------7**

…………………

**Conclusion ----------------------------------------------------------49**

**Acknowledgment-----------------------------------------------------50**

 **References--------------------------------------------------------------51**

abstracts are not catalog

 Paper Size：A4

Margins：2.54 cm above; 2.54 cm below

 3.0 cm left; right 2.0 cm

 Gutter: 0.5 cm

 Binding position: left

# Chapter one Introduction (Times New Roman two, bold, and the spacing between the top and bottom is: 0.5 lines before the paragraph, 0.5 lines after the paragraph, centered)

##  Title (bold in Times New Roman three)

(Times New Roman size 3, 1.5 single-spaced).

## 1.1.1 Title (as the level 3 title of the body, bold in Times New Roman 3)

The first line is indented with 2 characters, times new roman 4, the line spacing is 1.5 times, and the proper noun is marked with the corresponding foreign language when it appears for the first time.

(the marking of the cited literature in the text should be placed in the upper right corner of the last word of the quoted content, the cited literature number should be placed in square brackets "[]" with Arabic numerals, and the upper corner of small four-point font, such as "titanium matrix composite material [2]". When the references mentioned are directly explained in Chinese, the font of the same size as the body should be aligned with the body, for example, "as can be seen from literature [2]".).

## Title

Formula Numbers are grouped into chapters, such as (2-2), to represent the second formula in chapter 2.

Formula edit application input as far as possible using formula, select the default format, formula number right alignment, formula adjustment to the basic center.

### 1.2.1 Title

Illustration

Illustrations should closely match the text, conform to the text and pictures, the content is correct. The picture is placed at the bottom of the picture.

Table 1-2 fusion welding parameters (no. 5 times new roman is centered)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| No | Gate | Current（A） | Voltage（V） | Gas flow （L/min） | Welding speed(cm/min) |
| 1 | 一道 | 191 | 22.9 | 12 | 40 |
| 二道 | 211 | 24 | 12 | 43 |
| 2 | 一道 | 191 | 22.9 | 12 | 40 |
| 二道 | 211 | 24 | 12 | 40 |
| 3 | 一道 | 191 | 22.9 | 12 | 40 |
| 二道 | 211 | 24 | 12 | 40 |

Each table should have a title (consisting of table order and table name). Table order is generally arranged according to chapter, such as the first inserted table in chapter 1 with the serial number "table 1-1". Table with three lines table, table order and table name between a blank space, table name is not allowed to use punctuation, table name without punctuation. The title is placed on the table and a number 5 word is required (including the contents of the table).
 If the entire table USES the same unit, move the unit symbol to the upper right corner of the table header with parentheses.

# Conclusion

…………

# Acknowledgment

………….

# References

[1] Hunt.M. MMCs for exotic meeds, composite. Mater. Sci.. 1989，104(4):53-57

[2] Vaccari J A. The Challenges of Orient Express. Am Mach， 1990, 134(1):55

……………………….

The writing format of the reference should conform to BG7714-87<< the rules for the description of the reference after article>>. The commonly used references are listed as follows:

Books and documents

Serial number □Author. (Note: it should be a small point and an empty one, the same as below )the title of a book.（It should be a small point and an empty one(应为小点，并空一格), the same as below）publishing house.（It should be a small point and an empty one(应为小点，并空一格), the same as below）Publication Year：Introduction of the beginning and ending pages.

Example：Feng Duan. Physics of metals, vol. 3, mechanical properties of metals. Science Press. 1999：132－144

Translation of books and documents

Serial number □Author. Book name. Translator. Publishing house. Publication Year:

References to partial start and end pages

Example：Johnson.Titanium alloy melting .Translated by Ma Chen and Zhang Chengjun. Science Press. 2000：112－121

Academic journal literature

Serial number □Author. Article name. Academic journal name. Year, volume (period) : quote part of the beginning and end pages.

Example［1］Zhang Erlin, Jin Yunxue, Zeng Songyan, etc.Effect of in situ autogenous TiCP/Ti composites on microstructure and aluminum content. Chinese Journal of Materials Research. 2001，4(3)：25－28

Academic conference paper

Serial number □Author. Article name. Editor's name. Conference Name， Conference location，Year.Place of publication, publishing house, publication year: reference to part of the beginning and ending page

Example：Yan Aimin. The status quo and development countermeasures of China's foundry industry. Fujian Mechanical Engineering Society Foundry Society. The 4th 20th Province Foundry Academic Conference Proceedings, Wuyishan. 2002：1－8

Dissertation References

No. □ Graduate Name. Dissertation Title. School and Dissertation Level. Year of Defense: Reference Partial Start and End Page

If the academic conference publishes a collection of papers, the words "thesis" may be added after the name of the conference. Those who have not published the collection will save the "publishing" and "publishing year". The place where the meeting address is the same as the place of publication omits the "place of publication". The year of the meeting is the same as the year of publication, omitting the "year of publication".

Example: Ma Mingxi. Study on the Microstructure and Damping Properties of TiC/2024 Composites. PhD thesis of Harbin Institute of Technology. 1999: 25-31