



The Title of The Thesis that takes up to Two-Three Lines of Text in English

1. The cover page must be printed on thick, dark red (Maroni) bound paper with the writing engraved in gold when the thesis or dissertation is submitted to the college following debate and editing.

2. Only the official university logo, along with its colors, proportions, frame, and text that has been authorized by the university, should be displayed on the cover page. Additionally, the cover page must, in the format and style described above, list the general administrative structure of the organization to which the thesis is presented, from top to down (government, ministry, university, college, with an italicized indentation to denote the academic department).

A Thesis

Submitted to the Council of the Choose an item. / University of
Duhok

In Partial Fulfilment of the Requirement for the Degree of
Choose an item. **in Computer Science / Artificial Intelligence**

by

Student Full Name (Surname)

MSc. in Computer Science, University of Duhok – 202X

Supervisor(s)

1st Supervisor Full Name: Prof. Dr.

2nd Supervisor Full Name: Prof. Dr. (if any)

Duhok, Kurdistan Region Iraq

Supervisor Certificate

I / We certify that this thesis entitled “**Thesis Title**” is prepared by “**Student Full Name**” under my supervision at the Department of **Computer Science**, Choose an item. - University of Duhok, as a partial fulfillment of the requirements for the degree of Choose an item. in **Field of Study**.

Signature:

Supervisor: **Assistant. Prof. Dr. Insert the Full Name**

Department of **Computer Science**

Choose an item.

University of Duhok

Date: / /202X

Declaration and Recommendation of Linguistic Evaluator

I hereby declare that this thesis, entitled (.....), has undergone linguistic review and that all linguistic and expressive errors have been fixed. As a result, the thesis is now eligible for discussion in terms of linguistic integrity and accurate expression.

Signature:

Assistant. Prof. Dr. Insert the Full Name

Department of Computer Science

Choose an item.

University of Duhok

Date: / /202X

Recommendation of the Head of the Academic Department

Based on the recommendations submitted by the supervisor and the linguistic and scientific evaluator, I nominate this thesis for discussion.

Signature:

Assistant. Prof. Dr. Insert the Full Name

Department of Computer Science

Choose an item.

University of Duhok

Date: / /202X

Choose an item.

We hereby certify that we have reviewed the thesis entitled “**Thesis Title**” and have examined the candidate, **Student Full Name**, as the Examining Committee, we find that the thesis is satisfactory and adequate for the award of the degree of Choose an item. in **Computer Science**.

Signature:

Committee Chairman: **Prof. Dr. Insert the Full Name**

Date: / /202X

Signature:

Committee Member: **Assistant. Prof. Dr. Insert the Full Name**

Date: / /202X

Signature:

Committee Member: **Assistant. Prof. Dr. Insert the Full Name**

Date: / /202X

Signature:

Committee Member: **Assistant. Prof. Dr. Insert the Full Name**

Date: / /202X

Signature:

Committee Member: **Assistant. Prof. Dr. Insert the Full Name**

Date: / /202X

Signature:

Committee Member (Supervisor): **Assistant. Prof. Dr. Insert the Full Name**

Date: / /202X

Signature:

Committee Member (Co-Supervisor): **Assistant. Prof. Dr. Insert the Full Name**

Date: / /202X

Approve of the Dean of Choose an item.

Signature:

Prof. Dr. Insert the Full Name

Date: / /202X

Declaration

I hereby declare that the work described in this thesis is original work prepared and written by me for the degree of Choose an item., at the Department of **Computer Science**, Choose an item., University of Duhok. Additionally, the results found are entirely my own work, and I have faithfully and properly cited all the sources used in the thesis.

Signature:

Insert the Student's Full Name

Date: / /202X

Acknowledgements (Optional)

In this section, the student may express her/ his gratitude to:

- Supervisory team, and academic advisors for their guidance and support during the PhD period.
- The institutions such as (Departments, Colleges, and/or the University) could also be mentioned in this section for providing the infrastructure, resources, and environment necessary to complete the research.
- Funding bodies, scholarships, or grants that have supported the research can be acknowledged and gratitude.
- Any organizations, or individuals outside the university who provided additional resources or inspiration for the research.
- Colleagues who have actively collaborated on the research or provided knowledgeable or technical support.
- Individuals who have supported the student technically and/or administratively such as proofreading, editing, or technical assistance.
- Family and friends can be also mentioned in this section.

Insert the Student's Full Name

June 202X

Dedication (Optional)

This is a sample:

"To my beloved parents, whose unconditional love, support, and encouragement have been my greatest strength throughout this journey. This work is a tribute to your sacrifices and unwavering belief in me."

Insert the Student's Full Name

June 202X

List of Publications

The list of publications goes here and is formatted as a full citation. Start from the recently published articles.

1. Article (1)

2. Article (2)

3. Article (3)

Abstract

Background/ Objective(s): introduces the reader to the research area, followed by the problem being addressed or the gap in the current knowledge. Provides a clear statement of the purpose or goals of the research “Research objective(s).” **Materials and Methods:** The student summarizes the methodology used to conduct the research. This may include the employed techniques, tools, frameworks, etc. **Results:** The student should highlight the most important results which support the research objectives and how these results contribute to the field. **Conclusion:** what are the main conclusions and implications?

Keywords:

- *The key components of the thesis or dissertation should be reflected and represented in the overall structure. There should be no subheadings and only one paragraph in the abstract. Four key components are addressed in a well-designed abstract, and they are: **Background/ Objective(s), Materials and Methods, Results and Conclusion***
- *The abstract in the thesis should not exceed 500 words. **The Kurdish, English, and Arabic abstract must match exactly.***
- *(Maximum two pages in normal-size font, typeset with the thesis layout)*
- *Keywords: The first one starts with a capital letter; alphabetical order; separated with a semicolon; no more than seven words, but at least five*

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Note: Please be aware that this note must be removed after the completion of the writing

This Table of Contents (ToC) is designed to be generated automatically from your headings. It is important not to type in this area. Instead, to update the ToC, right-click anywhere (not including the title) and select “**Update Field**”. You will be given the choice of “**Update page numbers only**” or “**Update entire table**”.

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Note: Please be aware that this note must be removed after the completion of the writing

The List of Figures is designed to be generated automatically from your headings. To update this specialized ToC, right-click anywhere in it (not including the title) and select “Update Field.” You will be given the choice of “Update page numbers only” or “Update entire table.”

- *Each table and figure must be on a separate page.*
- *Each table and figure must be mentioned by number in the text e.g. (Figure 2.2) and (Table 3.2). The numbering format is denoted by chapter (1.1, 1.2, 2.1, 3.1, etc.)*
- *The tables and figures should appear somewhere close to where it is first cited.*
- *The resolution for the figures should be at least 300 dpi.*
- *Pictures of individuals, including the researcher or any member of the research team, are not allowed; instead, the emphasis is on showcasing the study's findings.*
- *To assist in precisely and clearly displaying variables, use symbols like arrows or any other shape.*

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Note: Please be aware that this note must be removed after the completion of the writing

The List of Tables is designed to be generated automatically from your headings. To update this specialized ToC, right-click anywhere in it (not including the title) and select “Update Field.” You will be given the choice of “Update page numbers only” or “Update entire table.”

- *Unless the table is larger than half the page, it should not be on a separate page without text.*
- *Each table must be mentioned by number in the text e.g. (Table 3.2).*
- *The tables should appear somewhere close to where it is first cited.*
- *The tables should be rewritable (NOT image)*

List of Abbreviations

Alphabetically sorted, abbreviations with numbers first then letters.

3GPP	3rd Generation Partnership Project
ASP	Associate Safety Professionals
BGP	Border Gateway Protocol
CAID	Computer-Aided Industrial Design
DNS	Domain Name System
EIA	Electronics Industry Alliance
FoIP	Fax over Internet Protocol

G

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Z

- A Term or name to be abbreviated must, on its first appearance, be spelled completely and followed immediately by its abbreviation in brackets (AIB) in the text. Thereafter, the abbreviation may be used within the text without further explanation.
- The list of abbreviations and symbols should be in alphabetic order.
- The abbreviation or symbol should be written first followed by the full name

Chapter 1: Introduction

1.1 Overview and Background

Provide an overview of the knowledge domain encompassing your research area. This section should be presented as an abstract, offering a broad perspective on the subject or field of study. Clearly identify the relevant discipline(s) within your research.

The introduction chapter should be engaging and accessible, capturing the reader's interest while being easy to understand for individuals with a general background in its field of study. It overviews the proposed research project and outlines its background, briefly highlighting the key issues within its knowledge domain. The introduction then transitions to presenting the research focus, which may be framed as a hypothesis, research question, project statement, or goal statement. **The introduction must be properly cited and paraphrased to reduce plagiarism.**

1.2 Problem Statement

This section is dedicated to identifying and addressing the critical issue(s) that remain unresolved within the current body of knowledge. In other words, it highlights the research gap(s) that persist, offering a clear understanding of the limitations or challenges in existing studies. The research statement is specific, brief, and clear. Clearly identify the **gap** that needs to be addressed or the problem that requires a solution. Begin the paragraph by explicitly **stating the problem**. Focus on a limited set of variables to maintain clarity. You may also consider framing the problem as a question to highlight its importance and guide the discussion. Hypothesis” and includes the null hypothesis and alternative hypothesis for the study.

1.3 Thesis Aims and Objectives

Clearly describe the research goal(s) in relation to addressing the uncertainty or question of interest. This should clearly indicate the contribution you aim to make through the intended study. While the scientific contribution will be elaborated on later, the goal outlines your goal. In contrast, the objectives detail your steps or methods to accomplish those goals.

1.4 Thesis Contribution

Highlight the significant advancements and/or novel results for the study area. Explain the significance of the research and locate it within the relevant literature. A convincing statement is required as to why the topic is worth scientific research, i.e. how it will contribute to and enrich the academic knowledge. This contribution results from research activities to discover new information and expand and verify existing knowledge. Indicate how the research can make an original contribution, fill gaps in existing work, and extend understanding of particular topics in a specific subject area.

Chapter One: Introduction

1.5 Thesis Outline

Provides a figure or a diagram as a thesis roadmap that summarizes the content of each chapter. This will let the reader know how the thesis is presented. It might be appropriate to provide a couple of sentences describing each chapter.

Chapter 2: Literature Review

2.1 Introduction

Overview of key theories, concepts, and frameworks in the field.

The literature review shows that the researcher has developed a strong understanding of the research field, is well-versed in the primary issues involved, and has critically analyzed and assessed the key literature. It also demonstrates that the researcher has developed an innovative and consistent perspective by integrating and synthesizing the key aspects of the field. The literature review should be supported by an extensive list of references at the thesis's end.

This section should demonstrate that the researcher is aware of the issues raised in related literature. It should describe the following:

1. Most recent academic researches that are relevance to the thesis area.
2. Highlight how the reviewed literature supports your research direction
3. Compare and analysis existing studies, highlighting strengths, weaknesses, and gaps.
4. Summarize the gaps that the thesis addresses.

2.2 Related Studies

Most recent academic research that is relevant to the thesis area.

2.2.1 Sub-section

2.2.1.1 Maybe another sub-section (Avoid it if possible)

2.3 Literature Analysis

Highlight how the reviewed literature supports your research direction. Compare and analyze existing studies, highlighting strengths, weaknesses, and gaps.

2.3.1 Possible Sections or Sub-sections

Possible Sections or Sub-sections.

2.4 Chapter Summary

Provide a concise recap of the key points discussed in this chapter to reinforce the reader's understanding. Conclude by offering a preview of what will be covered in the next chapter.

- *In this section, the student should demonstrate evidence of understanding of the current research on the subject under review.*
- *The literature review should be properly cited, paraphrased, and without plagiarism.*
- *The articles should be listed in descending order (from older to newest)*

Chapter 3: Methodology, Dataset, and Model

3.1 Introduction

How the student collected data -sample size. (*Procedure: experiments, surveys, simulations, fieldwork, etc.*)?

The introduction should provide a clear overview of the research approach and methods used to address the research questions or objectives. It also should mention the type of study (*cross-sectional, longitudinal, pre-post, retrospective study, etc.*). As well as, briefly explain the basis behind selecting the particular methodology, whether **qualitative**, **quantitative**, or mixed methods and justify why it is suitable for the study. This section should also outline the key processes, data collection techniques, and analysis methods that will be discussed in more detail in the subsequent sections. The introduction sets the stage for the detailed methodology, helping the reader understand the structure and approach used to gather and analyze data in the study.

3.2 Materials

Any tools or materials you used in the research.

3.3 Data Collection

How you collected your data -sample size. (Procedure: experiments, surveys, simulations, fieldwork). As well as how do you mitigate or avoid research biases (inclusion-exclusion criteria).

3.4 Statistical Analysis (Optional)

How you analysed data.

3.4.1 Sub-section

Possible sub-sections.

3.4.2 Another Sub-section

Possible other sub-sections.

3.5 Ethical considerations (if applicable)

3.6 Summary

Give the reader a reminder of the key points for this chapter. Then, tell them what follows in the next chapter.

Chapter 4: Results (*The Results and Discussion can be Merged in the Same Chapter if Needed*)

4.1 Introduction

This chapter aims to present the key findings of the research in a clear and structured manner, directly addressing the research objectives outlined earlier. In this chapter, the researcher should describe the following:

1. The results are presented briefly in a way that answers the study questions.
2. Tables and/or figures representing the results.
3. Text accompanying and referring to the tables or figures describing the aspects of the results focused on.
4. Comments on the results. For example, generalizations arising from the results, explanations of possible reasons for the results, or a comparison of the results with other studies.
5. Any nonessential data should be placed in the Appendices.

4.2 Figures

Figures should be *In Line within the text*, with their numbering reflecting the current chapter followed by a sequential number. You can copy the Figure 4.1 to another section and modify the figure and its caption as needed. The figure number will update automatically. If it does not, right-click the figure number and select “Update” to refresh it.



Figure 4.1 You can left justify your figures.

Figures containing multiple subfigures should be arranged within a table with hidden borders. Ensure the numbering style follows the format of the current chapter combined with a sequential number. Align all cells in the table to the centre, and keep the table borders hidden.

Chapter Four: Results

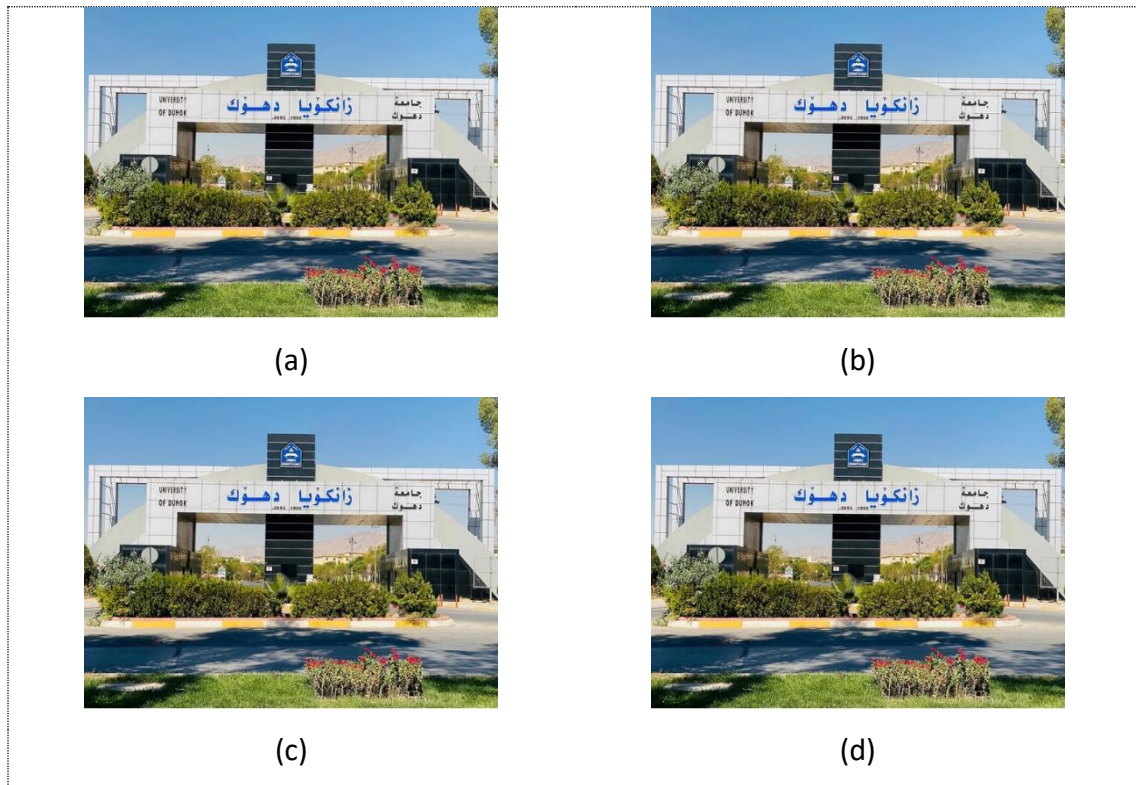


Figure 4.2 Put figures with multiple sub-figures in a table (centred). Then describe each part in the caption, (a) sub-figure 1, (b) sub-figure 2, (c) sub-figure 3, (d) sub-figure 4.

4.3 Tables

Table captions should be placed above as shown in Table 4.1. Avoid incorporating vertical lines, as they can detract from the visual appeal.

Table 4.1: This is the table caption.

Sequence	Column 1	Column 2
Row 1		
Row 2		
Row 3		

4.3.1 Equations

Equations should be placed within a table with hidden borders as shown in Equation (4. 1). Ensure the numbering style for equations matches that used for figures and tables. You can duplicate the table of Equation (4. 1) and modify the equation as needed.

$$r_{(in\ ft)} = 17.32 \times \sqrt{\frac{d\ (km)}{4f\ (in\ GHz)}} \quad (4.1)$$

4.4 Summary

Remind the reader of the key points for this chapter. Then, tell them what follows in the next chapter.

Chapter 5: Discussion (*The Results and Discussion can be Merged in the Same Chapter if Needed*)

5.1 Introduction

The Discussion should support or verify the findings without bias and provide a clear path to a conclusion or evaluation. It should also refer to previous research and explain how the results agree with those from the literature. In case they disagree, the author should explain why the results differ from previous publications.

5.2 Section (Optional)

5.2.1 Sub-section

5.3 Study Limitation

5.4 Summary

Should return to the main hypothesis and provide a discussion based on all the study results.

Chapter 6: Conclusions and Future Work

6.1 Conclusions

The Conclusion summarizes the most important results, highlighting the work's outcome, providing guidance for future research and application and contributing to existing knowledge.

6.2 Future Works

References

A comprehensive list of articles must be included in your work, with references formatted according to one of the following referencing styles (**APA, Harvard, IEEE, Vancouver**). In case of IEEE style, References should be numbered in square brackets as they are introduced in the text as follows:

- A single reference: [1].
- Two references or more: [2, 5, 9].
- A group of sequential references: [1-6] this means [1][2][3][4][5][6].

A complete reference list should then be provided at the end of the document, with sources listed in the order they appear in your writing, including full citation details.

It is mandatory to use one of the following reference management software, such as EndNote, Zotero, Mendeley, BibGuru, or Scribbr.

- [1] A. Alqassab and Y. H. Ismael, "EMV Electronic Payment System and its Attacks: A Review.," *AL-Rafidain Journal of Computer Sciences and Mathematics*, vol. 16, no. 1, pp. 23-29, 2022.
- [2] J. Aron and J. Muellbauer, "The Economics of Mobile Money: harnessing the transformative power of technology to benefit the global poor," Centre for the Study of African Economies, Oxford, 2019.
- [3] W. A. Hammood, R. Abdullah, O. A. Hammood, S. M. Asmara, M. A. Al-Sharafi and A. M. Hasan, "A review of user authentication model for online banking system based on mobile IMEI number.," in *IOP Conference Series: Materials Science and Engineering*, 2020.
- [4] K.-K. Lai, C. Yu-Long, K. Vimal, D. Tugrul, V. Pratima, K. Fang-Chen and L. Ruirong, "Mapping technological trajectories and exploring knowledge sources: A case study of E-payment technologies," *Technological Forecasting and Social Change*, vol. 186, p. 122173, 2023.
- [5] A. Manimuthu, V. Dharshini, I. Zografopoulos, M. K. Priyan and C. Konstantinou, "Contactless technologies for smart cities: big data, IoT, and cloud infrastructures.," *SN computer science*, vol. 2, no. 4, p. 334, 2021.
- [6] V. Matyushok, V. Krasavina, A. Berezin and J. S. García, "The global economy in technological transformation conditions: A review of modern trends," *Economic Research-Ekonomiska Istraživanja*, vol. 34, no. 1, pp. 1471-1497, 2021.

Appendix A: Title here

- *This extra section, which comes after the list of sources, can be used to support the thesis or dissertation by offering additional information.*

Appendix B: Title here

Appendix C: Title here



عێراق- کوردستانی هەرئێما حکومهتا
وهزارهتا خواندنا بلند و فه کۆلینین زانستی
زانکۆیا دهۆک
پشکا یاسا/ کۆلیژا یاسا

ناف و نیشانین ناما ماستهری\تیزا دکتورایی

نامهیه کا پشکیشکریه بۆ جفاتا کۆلیژا ل زانکۆیا دهۆک وه ک پشکه ک ژ
پیداویستیین بدهستفائینانا پلا ب

یا قوتابی

نافی قوتابی یی سی قۆلی

دیماهی باوهرنامه وهرگرتی - سالالی وهرگرتی

ب سه ره رشتیا

سه ره رشتی ئیک: پ.(ه). د.

سه ره رشتی دووی (ئه گهر هه بیت): پ.(ه). د.

دهۆک - هەرئێما کوردستانی - عێراق

برگا ئىيى: كۆرتىە ك لسەر بابەتې ناما قوتابې وڧە كۆلىنا ھاتىە كرن، ئەو ئارىشا ھاتىە بەرچاڧ وەرگرتن يان ئەو فالەھىيا زانستى ياھاتىە بەرچاڧ وەرگرتن بۆ چارە كرن وڧە كۆلىيى.

برگا دووى: ئارمانجېن ناما خواندىن.

برگا سىي: قوتابې كورتىە كې لسەر مېتولوچى ورېكا ڧە كۆلىيى ئەوا بكارئىناى دكارى خۆدا كو دبىت بەھسى وان ئامېرە/تەكنولوژى/تىورى/ھتد ئەوېن ھاتىنە بكارئىنان.

برگا چوارى: تەرخانكرىە بۆ پېشكىتېشكرنا ئەنجامېن بدەستڧەئىناى. قوتابې پېدڧىە روناھىې بېخىتە سەر گرنگرتن ئەنجامېن خۆ وچەوان ئەڧ دەرئەنجامە دى ھارىكارى كەن د پېشڧەربرنا بسپورىيا زانستى يا قوتابې ل سەر خواندى.



العراق-كوردستان إقليم حكومة
العلمي والبحث العالي التعليم وزارة
دهوك جامعة
القانون قسم/القانون كلية

عنوان الأطروحة يتكون من سطرين إلى ثلاثة أسطر من النص ويكتب باللغة العربية

إطروحة ماجستير (او دكتوراه)

مقدمة الى مجلس كلية – في جامعة دهوك إستكمالا لمتطلبات الحصول على درجة – في –

مقدمة من قبل الباحث

أسم الباحث الكامل

اخر شهادة للطالب – اسم الجامعة سنة التحصيل

بإشراف

أسم المشرف الاول الكامل أ.م.د.

أسم المشرف الثاني الكامل أ.م.د.

دهوك، إقليم كوردستان، جمهورية العراق

الخلاصة:

الفقرة الأولى: تقدم للقارئ نبذة مختصرة عن مجال البحث، تليها المشكلة التي يتم تناولها أو الفجوة في المعرفة الحالية. تقدم ايضاً بياناً واضحاً لغرض أو أهداف البحث.

الفقرة الثانية: يقدم الطالب ملخصاً للمنهجية المستخدمة لإجراء البحث، وقد يشمل ذلك التقنيات والأدوات والأطر المستخدمة وما إلى ذلك.

الفقرة الثالثة: تسليط الضوء على أهم النتائج التي تدعم أهداف البحث.

الفقرة الرابعة: مخصصة لنتائج البحث. يجب على الطالب تسليط الضوء على أهم النتائج التي تدعم أهداف البحث، وكيف تساهم هذه النتائج في المجال.

- يجب أن تنعكس العناصر الرئيسية للأطروحة أو الرسالة وتُمثل في الهيكل العام. يجب ألا تتضمن الملخصات عناوين فرعية، وأن تقتصر على فقرة واحدة. يتناول الملخص الجيد أربعة عناصر رئيسية، وهي: الخلفية/الأهداف، والمواد والطرق، والنتائج والخاتمة.
- يجب ألا يتجاوز الملخص في الرسالة 500 كلمة. يجب أن تتطابق جميع الملخصات المقدمة باللغات الكردية والإنجليزية والعربية تمامًا.
- الكلمات المفتاحية: تبدأ الكلمة الأولى بحرف كبير، مرتبة أبجدياً، مفصولة بفاصلة منقوطة، لا يزيد عن سبع كلمات، ولا يقل عن خمس كلمات.

General Guidelines

- **Thesis length**

- The goal is the shortest possible paper that contains all information necessary to describe the work and support the interpretation.
- Avoid unnecessary repetition of statements. The number of pages should be no **more than** 80 for the diploma, 120 for the MSc, and 200 for the Ph.D. thesis.

- **Language**

The thesis should be written in academic English.

- **Font Style, Size, and Line Spacing**

- Use the font “Time New Roman” throughout the thesis text.
- Use font size 12-point for regular text.
- Use font size 16-point (**bold**) for **chapter titles** and font size 12-point (**bold**) for **Subchapter titles**.
- Use font size 11-point for footnotes and endnotes.
- *Use font size 11-point italics for table and figure captions*
- The text should be in four levels of headings.
- Subheadings and sub-subheadings should be in **bold**, and only the first word should be capitalized

1.1 Heading

1.2 Heading

1.2.1 Subheading

1.2.1.1 Sub- subheading

1.2.1.2 Sub- subheading

1.2.2 Subheading

- Single-column format.
- Full justification of the lines throughout the text.
- Each new paragraph should be designated with an additional spacing (one tab) of 2 cm.
- Each new section heading should be separated from the previous by a single empty line.
- The formulas and symbols should be written in *italics*.
- The line spacing for the text in the thesis should be **1.5** line spacing.

- Line spacing for the text in the quotations, references, footnotes, and endnotes should be **1** line spacing.
- Line spacing for equations should be **2-line** spaces.
- **Page Numbering:**
 - The cover and title pages should NOT be numbered.
 - The pages should be numbered with Roman numbers (I, II, III, IV, etc.) for the table of contents, list of figures, list of tables, and list of abbreviations.
 - All pages from the introduction to the last chapter must be numbered consecutively with Arabic numbers (1, 2, 3, 4, etc.), centered at the bottom.
- **Page Layout**
 - Select Page size A4.
 - For side margins, the left-side margin should be 3.1 cm while the right-side margin should be 2 cm.
 - The top and bottom margins should both be 2 cm.
- **Number of References**
 - A minimum of 40 references is required for MSc theses, while PhD dissertations must include at least 100 references.