[THESIS TITLE]

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By

|  |
| --- |
| Author |
| **ID: 110xxxx** |

Under the Supervision of

Name of Supervisor

Choose an item.

Department of Computer Science and Engineering

Bangladesh Army International University of Science and Technology



Bachelor of Sciencein Computer Science and Engineering

Bangladesh Army International University of Science and Technology

Choose an item.*,* Choose an item.Semester

[THESIS TITLE]

A Choose an item. submitted to the Department of Computer Science and Engineering Faculty, Bangladesh Army International University of Science and Technology in partial fulfillment of the requirements for the degree of Bachelor of Science in Computer Science and Engineering.

|  |  |
| --- | --- |
| Author | **ID: 110xxxx** |

**Department of**

**Computer Science and Engineering**

**Bangladesh Army International University of Science and Technology**



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June, 2020

## Declaration

This is to certify that this Choose an item. is my original work. No part of this work has been submitted elsewhere partially or fully for the award of any other degree or diploma. Any material reproduced in this project has been properly acknowledged.

Student’s name & signature

## Approval

The Thesis titled “Click here to enter text.” has been submitted to the following respected members of the Board of Examiners in partial fulfillment of the requirements for the degree of Bachelor of Science in Computer Science and Engineering on June 2020 by the following student and has been accepted as satisfactory.

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| Author | **ID: 110xxxx** |

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| \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_  Supervisor  [Faculty Name]  Choose an item.  Department of CSE  Bangladesh Army International University of Science and Technology | \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_  External Supervisor  [Faculty Name]  Choose an item.  Department of \_\_\_  Bangladesh Army International University of Science and Technology |
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\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_

Mohammad Asaduzzaman Khan

Head, Department of CSE

Bangladesh Army International University of Science and Technology

## Acknowledgement

In this section, express your gratitude to the people who have helped you throughout the work. Give thanks to different people for valuable discussions, their suggestions, ideas and encouragements.

This section should not be more than one page. But if you cannot confine your gratitude in one page, you can use two pages.

Remember, Font will be 12, Times New Roman here.

|  |
| --- |
| Author |

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## ABSTRACT

In the abstract, you should present what you have done or developed or discovered or investigated in their work. You will say briefly the results of the investigation or experiment, whether the results are consistent with the predicted values and existing publications. You will mention your initial targets and whether you have achieved it or not.

The ‘Abstract’ is significantly important as a reader will try to get an idea about the work by reading it. In the abstract the novelty of the work or the contribution of the authors should be highlighted. The objective of the work shall not be presented in the abstract. No introduction should be presented in the abstract.

## Chapter 1

## Introduction

### Introduction

In this section, give a general introduction of the work.

### Historical Background

Start writing here…

#### Earlier Research

Start writing here…

#### Recent Research

Start writing here…

#### State of the art technology

Start writing here…

### Future Scope of This Study

Start writing here…

#### Future Scopes

Start writing here…

#### Recommendations

Start writing here…

### Limitation of the Study

Start writing here…

### Advantage over Traditional Method

Start writing here…

### Objective of this Work

Start writing here…

#### Primary objectives

Start writing here…

#### Secondary Objectives

Start writing here…

### Introduction to this Thesis

Start writing here…

## Chapter 2

## HOW TO USE THIS TEMPLATE

### Introduction

In this section, how the students can use the template is explained. Follow the specific sections for any specific query.

This template is made keeping in mind the needs of **students in BAIUST.** The template will help you a lot of formatting work. If you follow the steps, your thesis will have some less reason to get rejected.

### From Declaration to Abstract

For these sections, the work is simple and straightforward. Modify the contents there e.g. select Fall/spring from the drop/down menu list, fill up different information etc.

### Entering the Text

To enter your own text, just replace your text in template. For example, suppose the title of your second chapter is ‘Methodology. Then you will have to just replace “How to use this template” (see above) with “Methodology”. Do not change the font name or size there. Similarly, in the introduction section and other sections, replace your text.

Beginning a sentence by the words ‘but’ and ‘and’ should be avoided. Passive voice should be used as far as possible.

#### Using Bold, Italic or Underline and use of Bullets

You can use **BOLD** or *italic* text in your writing for giving emphasis. But using them very frequently or without much thinking will make your report visually unpleasant. Use them only for giving some selected point more importance.

#### Text Justification

Always justify your passages so that the lines are uniformly spread along the margin. To justify select the passage and press *Ctrl + J* (or, alternatively go to Microsoft word Ribbon: Home ⇒ Paragraph Section ⇒ Justify (4th option)).

#### Spacing Option

Use 1.5 of line spacing [go to Microsoft word Ribbon: Home ⇒ Paragraph Section ⇒spacing (just right to the justify option)]

#### How to use Numbering

As you can see, give your sections number like 2.2., 2.3., 2.3.1.etc. This will also help the table of content as you will see later.

To create numbering, go to Home ⇒ Paragraph Section ⇒ Numbering. You will also see that writing (writing 2.2. + press space) will automatically create aligned number after 2.1. You can also use “change list level” and “set numbering value” in numbering menu (Right click) to change the numbering style and starting number.

#### Using Color

You can use color to give emphasis. But try to use eye soothing colors and again do not overuse.

A general rule for formatting text is presented here. Use this table as your guideline.

Table 2.1 A summary of rules for text editing presented with example

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Text**  **Type** | **Example**  **From this chapter** | **Font Name** | **Font**  **Size** | **Font**  **Alignment** | **Emphasis** | **Custom**  **Style** |
| Chapter  number | **Chapter 2** | Times Now Roman | 16 | Middle  (Ctrl + E) | BOLD | **Heading 2** |
| Chapter name | **HOW TO USE THIS TEMPLATE** | Times Now Roman | 16 | Middle  (Ctrl + E) | BOLD | **Heading 2** |
| Subheading  Level 1 | **Introduction (2.1), Entering the Text (2.3)** | Times Now Roman | 14 | Left  (Ctrl + L) | BOLD | **Heading 3** |
| Subheading  Level 2 | **Text**  **Justification (2.3.2)** | Times Now Roman | 12 | Left  (Ctrl + L) | BOLD | **Heading 4** |
| Subheading  Level 3 | **Update**  **the Table (2.4.1.2)** | Times Now Roman | 12 | Left  (Ctrl + L) | Bold/italic  /Underline | **Heading 5** |
| Normal Text |  | Times Now Roman | 12 | Justify  (Ctrl + J) | NORMAL | CSE\_T |

\*Do not go beyond subheading level 3.

**The custom style (look last column of the table) is very important**. You can find them is MS WORD ribbon ⇒ Home ⇒ Style. Select appropriate style. If you are just replacing your text in this template, you will automatically use them.

The custom style is important because it is used to automatically generate the table of content. (See next section 2.4: Table of contents)

### Table of Content

You can manually edit the table of content. But a more efficient way is used here. The table of content will be updated automatically when you change anything.

#### How to Update Table of content Automatically

##### Mark your text according to Table 2.1

Suppose, I have created a chapter named “How to use this template”. After writing this, I have to select the text (“How to use this template”) and go to Home ⇒ Styles ⇒ select Heading\_2 (table 2.1 says so).

If I am writing the caption 2.4.1 named “How to Update Table of content automatically” (This is in subheading level 4), I have to select the lines (“How to Update Table of content automatically”) and select the styles named “Heading\_4” (see table 2.1).

If I am writing any normal text (inside any subsection), like this line, according to table 2.1, I have to select this passage and select style “CSE\_T” (T for text).

##### Update the Table

Just right click the “Table of content” and select “Update field” and then “update entire table” . **Only make sure, you have used specific style (see last column of the table) because ‘Table of content’ uses the style to pick up the titles.** If the page number or any of the title’s changes, update the table and the correction will be automatic.

You will see the content will be updated according to new page number automatically.

If you see any problem in table of content, just ctrl + click on the page number (from the right side of the table of contents). This will take you to the page. Find there what you have mistaken.

* + 1. How to Update Table of content Manually

This is quite straightforward. Edit as you like. Keep track of the page number by yourself. And, if you change any page, correct all the pages by typing again.

### List of Figures

Using list of figures is same as table of contents, only difference: Select the title of the figure and select style “CSE\_F” (F stands for figure). Then right click “list of figures” and select “update field”. The figure list will be updated according to new page number automatically.

### Use of Table

Always give table no according to chapter (see Table 2.1 – indicating that it is table from chapter 2 & 1st figure). Also give a good caption that explains the purpose of the table. Mention the table name in the text (e.g. the result of our work is presented in Table 10.1 or something like that, etc).

“Auto fit” the table to windows –

1. Select the whole table
2. Go to: layout ⇒Autofit⇒Autofit to Windows

### Use of Figures

Do not use directly copied figure from other publications. If you have to use some copyright contents, then give reference of that source like fig.1 is taken from [1] (means this figure has been taken from reference 1).



Figure 2.1 Logo of BAIUST [1]

Always give a figure name, figure caption explaining what the figure implies and mention your figure in your writings. Align the figure and its caption in the middle, e.g. see the above figure 2.1.

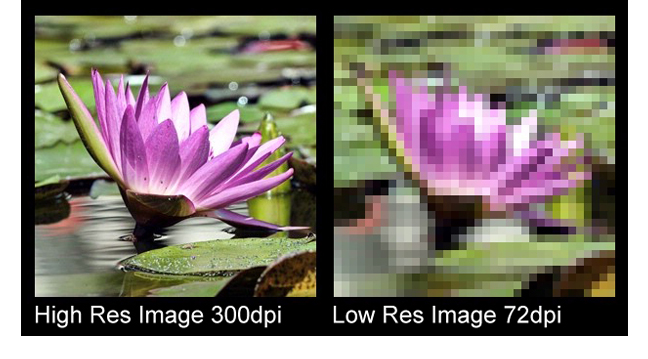
It is wise to keep the aspect ratio of figure fixed; do not distort it. Do not use blurred images (see figure 2.2).

Figure 2.2Example of an image with acceptable resolution (left one) and unacceptable resolution (right one).

Please check all figures in your paper both on screen and on a black-and-white hardcopy. When you check your paper on a black-and-white hardcopy, please ensure that:

* The colors used in each figure contrast well,
* The image used in each figure is clear,
* All text labels in each figure are legible.
* Keep the images properly sized and at the middle of the margin (Do not cross margin and do not give extra-large or extra-small images)

In case of presenting graph, you can use color. But, use color that can contrast well even in black & white print. Use symbols in your graph, label them properly with units (see figure 2.3).

gv_figure_4

Figure 2.3 An example of graph that uses color which can be easily distinguished even in black and white print; the graphs are properly labeled also.

To draw the curves, it is highly recommended to use professional software “**ORIGIN 8.5**”. But you can also use **MATLAB**. **Microsoft Excel** can also be used, but this is not professional.

### Writing Equations

Use MS word equation writer (Insert ⇒ Equation) to write the equations, e.g.

(2.1)

Also use equation number according to the chapter, e.g. equation (2.1) is the 1st equation from chapter 2.

### Using Symbols

(Go to the menu Ribbon) Insert ⇒ Symbol to create symbols (ω, ϕ, φ, δ etc).

### Appendices

In the appendix section, give those parts of your thesis which are not essential to understand the main idea or findings of the thesis. But if the reader wants the details or more explanation, then the appendix will help them.

Give the code you used in simulation or in project, the data sheets (only important parts, not full sheet), and necessary diagrams for details understanding in the appendix.

For example, if you have worked on mathematical modeling, do not give the details derivation in your results chapter because it will hamper the flow of reading and obscure the findings. Rather, present the main equations and results there and give the detail derivation in the appendix.

### References

It will contain list of references: books, journal / periodical papers, URL sites).

* The heading of the References section must not be numbered.
* All reference items must be in 12-point font.
* Please use Regular and Italic styles to distinguish different fields as shown in the References section.
* Number the reference items consecutively in square brackets (e.g. [1]).
* When referring to a reference item, please simply use the reference number, as in [2]. Do not use “Ref. [3]” or “Reference [3]” except at the beginning of a sentence, e.g. “Reference [3] shows …”.
* Multiple references are each numbered with separate brackets (e.g. [2], [3], [4]–[6]).

Examples of reference items of different categories shown in the References section include:

* example of websites [1]
* example of a book in [2]
* example of a book in a series in [3]
* example of a journal article in [4]
* example of a conference paper in [5]
* example of a patent in [6]
* example of a website in [7]
* example of a web page in [8]
* example of a data book as a manual in [9]
* example of a datasheet in [10]
* example of a master’s thesis in [11]
* example of a technical report in [12]
* example of a standard in [13]

For example, if you are using any book as reference, see [2] in ‘reference section’ of this template to know how to cite the book.

### Error Correction

Use Microsoft word spelling checker for possible error. Revise carefully after you have completed writing.

### Summary

This section works as a thesis guide by demonstrating how to use this template in details. This section also focuses on general techniques regarding ‘how a dissertation should be written’.

## Chapter 3

## Title of Chapter 3

### Introduction

Start writing here …

### Headings

Start writing here …

#### Subheading

Start writing here …

#### Subheading

Start writing here …

### Novelty of Our Work

Start writing here …

### Summary

Start writing here …

## Chapter 4

## Title of Chapter 4

### Introduction

Start writing here …

### Headings

Start writing here …

#### Subheading

Start writing here …

#### Subheading

Start writing here …

### Summary

Start writing here …

## Chapter 5

## Discussions and Conclusions

### Discussions

Gibe your findings and results in details here.

### Suggestion for future Work

Start writing here …

#### Subheading

Start writing here …

#### Subheading

Start writing here …

### Conclusions

Start writing here …

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**www.wikipedia.org cannot be used as a reference**

## Appendix A

## Detailed Explanation

Provide any additional material that have been used in this thesis/project here.