



## **Annex-C**

# **FINAL YEAR PROJECT REPORT FORMAT**

**Electrical Engineering Department**

**College of Engineering Sciences**

**Institute of Business Management**



# **FINAL YEAR PROJECT REPORT FORMAT**

Electrical Engineering Department  
College of Engineering Sciences  
Institute of Business Management

1. All Project Reports must be hard-bound in **GRAY** color. No other forms of binding shall be acceptable. Any large size diagrams or off-prints etc. must be bound with the report. Hard binding should use **GRAY** cloth with golden letters embossed on it.
2. Use following specifications for Gray cloth (C=62%, M=54%, Y=53%, k=26%).
3. **Four Copies** of the report need to be submitted OR **Five Copies** if the Project has an Industrial sponsor.
4. Only one side of the page should be printed, the other side should be left blank.
5. Chapter Title should be in **TIMES NEW ROMAN, 16 POINTS, CAPITAL & BOLD.**
6. Heading should be **Times New Roman, 14 Point, small & bold.**
7. Sub Heading should be in **Times New Roman, 12 Points, small and bold.**
8. The font used in the body of report should be **Times New Roman, 12 Points plain** with 1.5” spacing between two consecutive lines.
9. The overall structure of the final year project report should be as follows:
  1. *Cover Page*
  2. *Title Page*
  3. *Completion Certificate*
  4. *Acknowledgement*
  5. *Abstract*
  6. *Table of Contents*
  7. *List of Figures*
  8. *List of Tables*
  9. *Project Objectives*
  10. *Body Section*
  11. *References*
  12. *Appendices*
  13. *Mech. /Elect. Drawing*
10. The students are also required to provide the overall material of the Project Report on CD-ROMs which should be placed in proper jacket attached with the report.

*Only the reports according to the above format will be considered and graded. The details about the structure of project report are enclosed. For more information, please contact the SDP Coordinator.*

Font Type: Times  
New Roman (Bold)  
Font size: 20

*(Name of the Project)*  
*(A maximum of TWO lines)*

3 cm

7 cm

Font Type: Times  
New Roman (Bold)  
Font size: 18

**B.E. SENIOR DESIGN PROJECT REPORT**  
**Electronics Specialization /Telecommunication Specialization**

2 cm

Font Type: Times  
New Roman (Bold)  
Font size: 16

**Prepared by**

Font Type: Times  
New Roman  
Font size: 14

*(Name of Group members)*  
*(Must be in ALPHABETICAL ORDER)*  
*(No need to mention Group Leader)*

Font Type: Times  
New Roman (Bold)  
Font size: 16

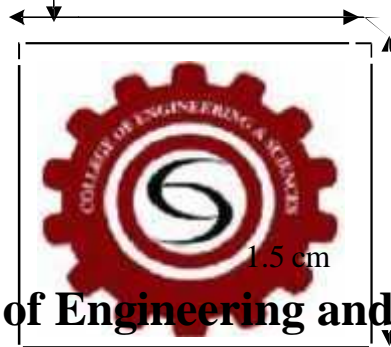
**Project Advisor**

Font Type: Times  
New Roman  
Font size: 14

*(Name of Project Advisor)*

2 cm

4 cm



4 cm

Font Type: Times  
New Roman (Bold)  
Font size: 18

**College of Engineering and Sciences**

1.5 cm

Font Type:  
Times New  
Roman (Bold)  
Font size: 18

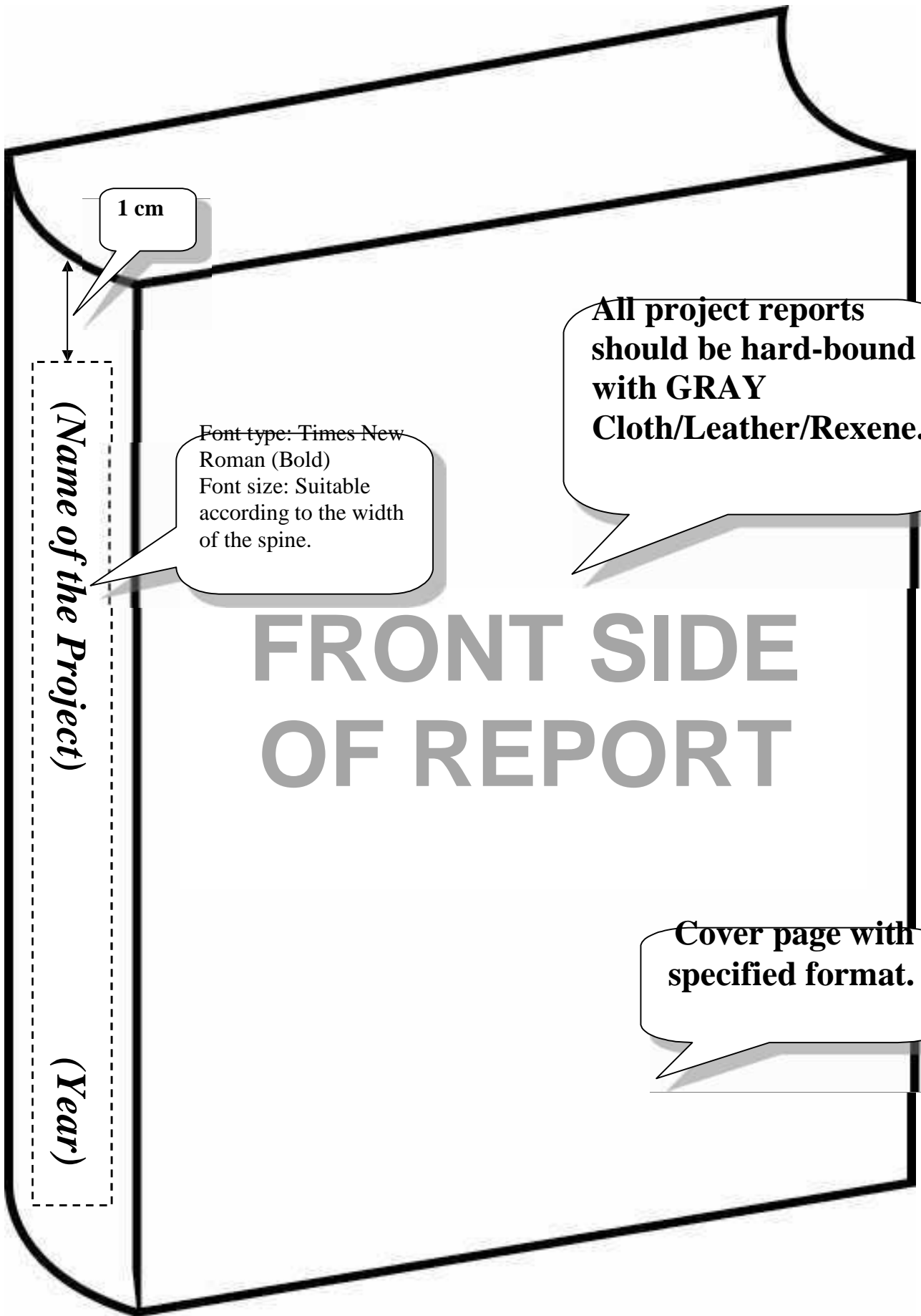
**Institute of Business Management**

2.5 cm

2 cm



2 cm



1 cm

*(Name of the Project)*

*(Year)*

Font type: Times New Roman (Bold)  
Font size: Suitable according to the width of the spine.

**All project reports should be hard-bound with GRAY Cloth/Leather/Rexene.**

# FRONT SIDE OF REPORT

**Cover page with specified format.**

# DETAILED STRUCTURE OF FINAL YEAR PROJECT REPORT

## 1. FORMAT

The following format is applicable to the report:

- 1.1 The report must be prepared in English Language according to the format specified, using only black ink on white, at least 80 grams, A4 standard size paper. Lines must be 1.5” spaced. Margin must be as shown in Figure 1.

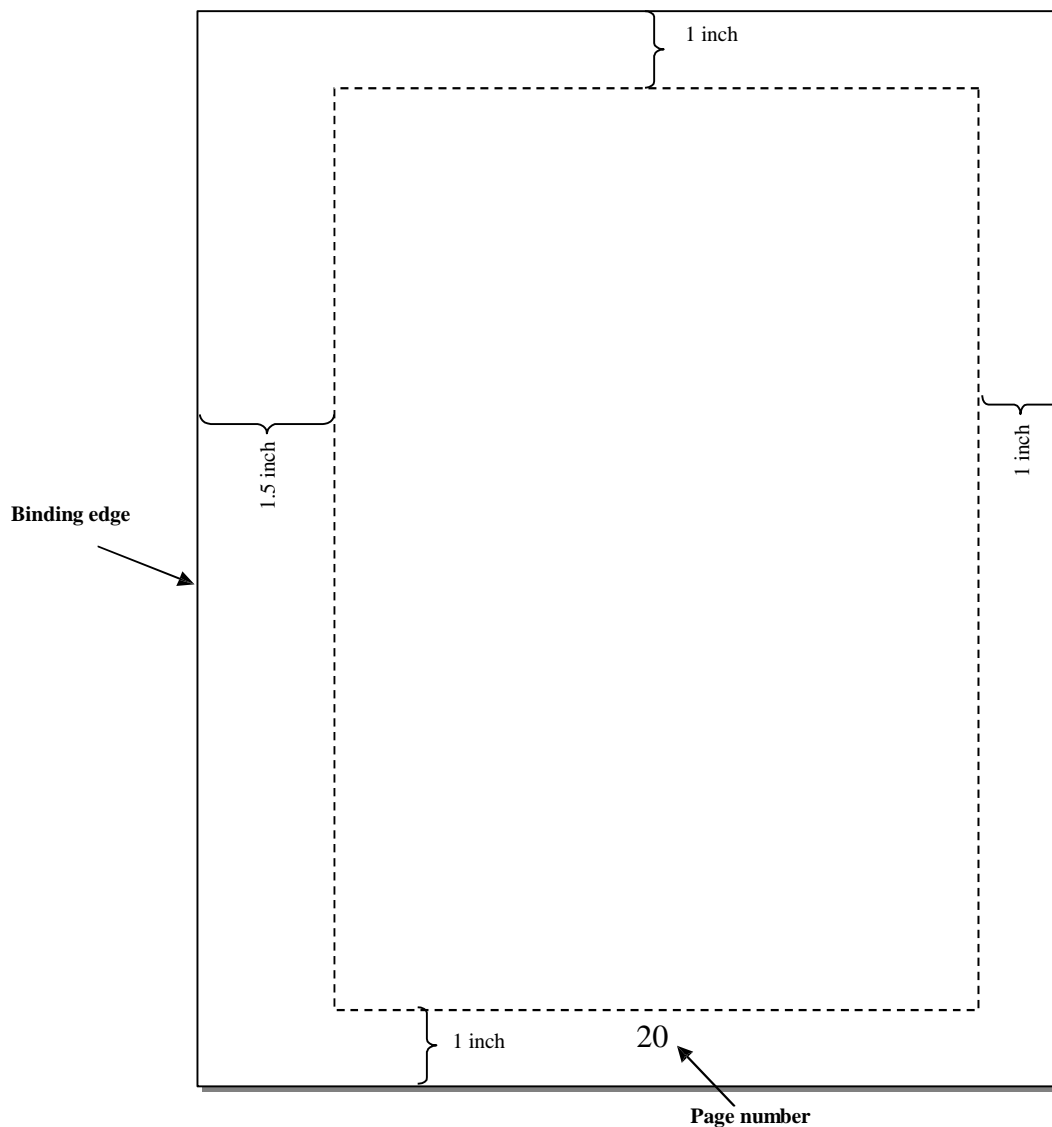


Figure 1: Space Margin

- 1.2 The page numbers of the Acknowledgement, Abstract, Keywords, Table of Contents, List of Figures, and List of Tables and Project Objectives must be in Roman numerals.

- 1.3 All other pages must be assigned a running Arabic number starting from 1. However, a page number should not appear on the title page or section title pages.
- 1.4 Table of Contents should be auto generated using MS Word
- 1.5 The references must be arranged in the order of their appearance. Each entry of the reference must be referred to at least once in the body of the report by using a format as follows:

[Index number]

For example, [12], [23]
- 1.6 Every *figure* must have the figure number like, e.g. Figure 1-1, Figure 2-5, etc. and the figure title is centered at bottom of the figure. Every table must have the table number, e.g. Table 1-1, Table 2-10, and so on and the table name is centered at the top of the table. Note that, e.g. Figure 2-5 or Table 1-3, the first number (i.e., 2 and 1) represents chapter to which the figure or table belongs, while the second number (i.e., 5 and 3) indicates their order.
- 1.7 The appendices should be used to contain lengthy or detailed supplementary documentation that may not be appropriate if inserted in the body of the report. Examples are data sheets of components, diagrams, models, sample documents, data dictionary, systems structured charts, program listing, user's manuals, system's manuals, coding and glossary of terms.
- 1.8 In the body section of the report, chapter number on left and chapter name on right should be mentioned in the header of each page.

## 2. REPORT CONTENTS

The report should contain the following:

### 2.1 A Title Page

See the enclosed format.

### 2.2 Project Approval Form

A form supplied by the college should be included with the report for the approval of project by the concerned authorities.

### 2.3 Acknowledgement

It is usual to acknowledge your internal advisor (and External advisor, if any) and help given by Technical Support staff and others as appropriate at the start of your report.

### 2.4 Abstract

A short summary (100-200 words) distilled from the introduction, conclusion and recommendation of your Project after the report is written.

### 2.5 Keywords

Important words and abbreviation used need to be define here.

### 2.6 Table of Contents

Auto Generated in MS Word

### 2.7 List of Figures

2.7.1 Heading "**LIST OF FIGURES**" must be in upper case with bold size 16 font.

2.7.2 “Figure” must be shown as Figure 1-1, Figure 1-2,. Figure 2-1 and so on

## 2.8 List of Tables

2.8.1 Heading “**LIST OF TABLES**” must be in Upper case with bold size 16

2.8.2 “Table” must be shown as Table 1-1. Table 1-2,. Table 2-1 and so on.

## 2.9 Project Objectives

Project Objectives should highlight the following points

- ∨ Motivation
- ∨ Desired aims /results/objectives
- ∨ Methodology adopted to achieve the results and how it differs from existing solutions
- ∨ Market or Industry adaptability/applications

## 2.10 Body Section

Typical chapters in a report should be as the following:

- ∨ Introduction
- ∨ Design objectives, issues and their analysis
- ∨ Requirement specifications
- ∨ Results and their analysis
- ∨ Economic analysis
- ∨ Conclusion
- ∨ Future recommendation

## 2.11 References

A reference is a complete list of books and paper that you have consulted. The following format should be applied;

### 2.11.1 Books

- One author

[35] Smith, Gerald M. *Statistical Process Control and Quality Improvement, 3rd Edition*.  
New Jersey: Prentice Hall International Inc., 1998.

- Two or more authors

[17] Gonzalez, Rafael C., and Richard E. Woods. *Digital Image Processing*. New York:  
Addison-Wesley Publishing Company, 1993.

[42] Shelly Gary B., et al. *Business Data Communications*. Massachusetts: Course  
Technology, 1998.<sup>1</sup>

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<sup>1</sup> The abbreviation “et al.” means “and others.”

- A selection from an edited collection
- [18] Pugh, A.K. "Styles and Strategies in Silent Reading." *Processing of Visible language*, Vol. 1. Ed. P.A. Kolars, M.E. Wrolstad, and H. Bouma. New York: Plenum Press, 1979.

#### 2.11.2 Periodical Articles

- One author
- [5] Dubuois, Betty Lou. "*The Uses of Slides in Biomedical Speeches*," *ESP Journal*, 1, Fall 1980, pp. 45-50.
- Two or more authors
- [20] Gupta, Lalit, T. Sortrakul, A. Charles, and P. Kisatsky, "*Robust automatic target recognition using a localized boundary representation*," *Pattern Recognition.*, Vol. 28, No. 10, 1995.
- or
- [23] Gupta, L., et al. "*Robust automatic target recognition using a localized boundary representation*," *Pattern Recognition.*, Vol. 28, No. 10, 1995.
- No author
- [4] "*An Unemployment Wallop*." *Times*, 115, May 12, 1980, pp. 54-55.

#### 2.11.3 Newspaper Articles

- One or more authors
- [19] Kotulack, Ron. "*Acid Rain Turning Lakes into 'Deserts'.*" *Chicago Tribune*, March 23, 1982, Sect. 1, p. 1, col. 1, et passim.<sup>2</sup>
- No author
- [8] "*Dissident Conceal Bones in Kremlin*." *Chicago Tribune*, March 23, 1982, Sect. 1, p. 1, col. 2.

### 2.12 Appendices

Only include items that are referred to in the report. Do not include published work - this should just be listed in the references. CD-ROMs must be securely attached to the inside-back cover of the report; they must be easily accessible and replaceable. If student has a large document as an appendix e.g. a user manual, this may be submitted separately, if absolutely necessary. In this case it must be labeled clearly on the cover and on the spine to indicate its contents.

### 2.13 Mech./Elect. Drawing

Enclose the drawing(s) used in groundwork of project.

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<sup>2</sup> The abbreviation "et passim" means that something is continued on later pages, but not consecutively



# Hardware Implementation of Data Encryption Algorithm

## B.E. SENIOR DESIGN PROJECT REPORT Electronics Specialization

**Prepared by**

*(Name of Group members)  
(Must be in ALPHABETICAL ORDER)  
(No need to mention Group Leader)*

SA | **Project Advisor** | LE  
Mrs. Seema Ansari



**College of Engineering and Sciences**



**Institute of Business Management Karachi**

# COMPLETION CERTIFICATE *(16 pt + Bold)*

## DEPARTMENT OF ELECTRICAL ENGINEERING CERTIFICATE OF FINAL YEAR PROJECT SUBMISSION

This is to certify that the project titled: \_\_\_\_\_  
has been submitted on DD/MM/Year \_\_\_\_\_ to the Department of Electrical Engineering in  
partial fulfillment for the Degree of Bachelors in Electrical Engineering by the following students.

| S. No. | ID | Names |
|--------|----|-------|
|        |    |       |
|        |    |       |
|        |    |       |
|        |    |       |

Supervisor Name: \_\_\_\_\_

Supervisor Signature: \_\_\_\_\_

Designation: \_\_\_\_\_

Department of Electrical Engineering

Institute of Business Management

HoD Name: \_\_\_\_\_

HoD Signature: \_\_\_\_\_

Head of Department

Department of Electrical Engineering

Institute of Business Management

# SAMPLE

## **ACKNOWLEDGEMENT** *(16 pt + Bold)*

It is usual to acknowledge your internal advisor (and External advisor, if any) and help given by Technical Support Staff and others as appropriate at the start of your report.

**SAMPLE**

## **ABSTRACT** *(16 pt + Bold)*

A short summary (100-200 words) distilled from the introduction, conclusion and recommendation of your Project after the report is written.

**SAMPLE**

## **KEYWORDS** *(16 pt + Bold)*

Important words and abbreviation used need to be define here.

SAMPLE

# **TABLE OF CONTENTS** *(16pt + Bold)*

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# SAMPLE

## **LIST OF FIGURES** (16pt + Bold)

|  | Page No |
|--|---------|
| Figure 1-1 Machine-oriented data division hierarchy:<br>Track, block..                         | 1       |
| Figure 2-1 Application-oriented data division hierarchy:<br>File, record, field and character. | 4       |
| Figure 3-1 Reel-file, Disk module interaction.   | 5       |

**SAMPLE**

## LIST OF TABLES *(16pt + Bold)*

|           | Page No  |     |
|-----------|--|-----|
| Table 5-1 | Illustration of full name of record and unique fixed-length key of record.   | 68  |
| Table 5-2 | Example of Variable length key name  | 77  |
| Table 7-1 | Data results of computation of average throughput time per record retrieval as the function of file loading factors, for each typical file organization method, using the full name of records in accessing. | 146 |
| Table 7-2 | Date results of computation of average throughput time per record retrieval as the function of file loading factors for each typical file organization method using unique fixed-length key in accessing.    | 149 |
| Table 7-3 | Data results of computation of achievable throughput-rate capability as the function of file loading factors for each typical file organization method using the record's full name in accessing.            | 152 |
| Table 7-4 | Data results of computation of achievable throughput-rate capability as the function of file loading factors of each typical file organization method, using unique fixed-length key in accessing.           | 154 |
| Table 7-5 | Approximate formulas of average throughput time and achievable throughput-rate capability for each typical file.   | 158 |



## **PROJECT OBJECTIVES** *(16 pt + Bold)*

Project Objectives should highlight the following points

- Motivation
- Desired aims /results/objectives
- Methodology adopted to achieve the results and how it differs from existing solutions
- Market or Industry adaptability/applications

**SAMPLE**

## ***BODY SECTION***

Typical chapters in a report should be as the following:

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- ✓ Design objectives, issues and their analysis
- ✓ Requirement specifications
- ✓ Results and their analysis
- ✓ Economic analysis
- ✓ Conclusion
- ✓ Future recommendation

# SAMPLE

**REFERENCES** *(16 pt + Bold)*

**SAMPLE**

**APPENDIX** *(16 pt + Bold)*

**SAMPLE**