REPORT FORMATING GUIDELINES

COVER PAGE (Center Alignment)

Margins : Top, bottom, right **1.5"**, left **1.75"**
Font Name : **Times New Roman**
Line Spacing : **1.5**

- Title : UPPER CASE (ALL CAPITAL), Letter Size **18pt**, Bold
- A Final Year Major Project Report : Title Case, Letter Size **14pt**
- Subject Code : Title Case, Letter Size **14pt**, Bold
- College Logo : **1.5" X 1.5"**
- Submitted to : Title Case, letter size **14pt**, Bold, Underlined
- Tribhuvan University : Title Case, Letter Size **16p**t, Bold
- Institute of Engineering : Title Case, Letter Size **14pt**, Bold
- Himalaya College of Engineering : Title Case, Letter Size **15pt**, Bold
- Department of Electronics and Communication Engineering: Title Case, Letter Size **13pt**, Bold
- Chyasal, Lalitpur : Sentence Case, Letter Size **14pt**, Bold
- Submitted by : Title Case, Letter Size **14pt**, Bold, Underlined
- Group Members (CRN or Symbol Number) : Sentence Case, Letter Size **14pt**, Bold
- Date : Sentence Case, Letter Size **13pt**, Bold

TITLE PAGE

- Same as above Cover Page **Except Logo**. Add the following sentence (UPPER CASE, **14 point** and Bold)
  "A Final Year Project Report Submitted for Partial Fulfillment of the Degree of Bachelors' in Computer Engineering"
- SUPERVISOR : Title Case, Letter Size **14pt**, Underlined.
  (Supervisor Name) : Sentence Case, Letter Size **15pt**, Bold

PAGINATION

- Before Introduction: Small Roman Numerals (e.g. i, ii, iii,.....ix, x, etc.)
- From Introduction onward : Arabic Numerals (e.g. 1, 2,3,.....,50)
- Paging : Bottom-Center

CONTENT

Margins : Top, Bottom & Right **1.25"** and Left **1.50"**

Paragraph spacing : **12pt**

Font Size : **12pt** (for Normal Text)

Header and Footer : **0.5 inch**

General Alignment **: Justified**

- ✓ A report may be fully justified (i.e., have even left- and right-hand margins), or left-justified only (i.e., have ragged right-hand margins). However, the justification must be consistent throughout the body of the report.

- **ACKNOWLEDGEMENT:** (UPPER CASE, Letter Size **16 points**, Bold) (1 Page)
- **ABSTRACT :** (UPPER CASE, Letter Size **16 points**, Bold) (1 Page)
- **LIST OF TABLES :** (UPPER CASE), Letter Size **16 points**, Bold) (1 Page)
- **LIST OF FIGURES :** (UPPER CASE), Letter Size **16 points**, Bold) (1 Page)
- **LIST OF ABBREVIATIONS :** (UPPER CASE), Letter Size **16 points**, Bold
- **TABLE OF CONTENTS :** (UPPER CASE), Letter Size **16 points**, Bold

Tables, Figures, Charts and Equations

- All tables (tabulated data) and figures (charts, graphs, maps, images, diagrams, etc.) should be prepared, wherever possible, on the same paper used to type the text and conform to the specifications outlined earlier. They should be inserted as close to the textual reference as possible.
- Tables, figures and equations should be numbered sequentially chapter-wise using Arabic numerals. They are referred to in the body of the text capitalizing the first letter of the word and number as Table 5.3, Figure 3.11, Equation (4.16), etc.
- If tables and figures are of only half a page or less, they may appear on the same page as text but separated above and below by triple line spacing. Font size for text should be the same as for the general text.
- Good quality Line Drawings/figures must be drawn using standard software that provides vector rather than bit-map graphics. Figures must be scalable.
- Images, Photographs, etc. must be scanned in resolution exceeding 200dpi with 256 grayscales for the monochrome images and 24 bit per pixel for the color images.

CHAPTER 1. INTRODUCTION **:** UPPER CASE, Letter Size **16 points**, Bold

1.1. Introduction : Sentence Case, Letter Size **14 points**, Bold

Content : Sentence Case, Letter Size **12pt**

1.1.1. […….] : Sentence Case, Letter Size **13 points**, Bold

Content : Sentence Case, Letter Size **12pt**

1.1.1.1. […….] : Sentence Case, Letter Size **12pt**, Bold.

Content : Sentence Case, Letter Size **12pt**

1.2. Problem Statement : Sentence Case, Letter Size **14 points**, Bold

1.3. Objectives : Sentence Case, Letter Size **14 points**, Bold

1.4. Scope and Application : Sentence Case, Letter Size **14 points**, Bold

CHAPTER 2. LITERATURE REVIEW **:** Upper Case, Letter Size **16pt**, Bold

CHAPTER 3: REQUIREMENT ANAYSIS **:** Upper Case, Letter Size 16pts, Bold

CHAPTER 4. SYSTEM DESIGN **:** Upper Case, Letter Size **16pt**, Bold

CHAPTER 5: METHODOLGY **:** Upper Case, Letter Size **16pt**, Bold

CHAPTER 6: RESULT AND ANAYSIS **:** Upper Case, Letter Size 16pts, Bold

CHAPTER 7: DISCUSSION : Upper Case, Letter Size **16pt**, Bold

CHAPTER 8: CONCLUSION AND FUTURE ENHANCEMENTS : Upper Case, Letter Size **16pt**, Bold

REFERENCES : Upper Case, Letter Size **16pt**, Bold

APPENDICES : Upper Case, Letter Size **16pt**, Bold

Note: Sample Heading under each chapter.

ACKNOWLEDGEMENT

- Acknowledgement to HCOE, its authorities (Directors and Principal), HOD/DHOD, Project Coordinator, Project Supervisor, Teachers/staffs, colleagues who supported to the project.

ABSTRACT

- Abstract should include the **Brief Summary** of the project like title of the project, objectives, methods used in the project, major findings and relevant conclusion.(**about 300 to 400 words**)
- Keywords (***Italic***): Major Keywords that focus your report so that the reader can study your report for his reference. (Normal, Bold, **Max 6 key words**).

Chapter 2: LITERATURE REVIEW

- It contains all the **existing works that have already been carried out in the field** related to your project topic. You have to explain each of the works as a separate subtopic with following details.
    - What is the work?
    - How is it done? : Methods, techniques, technology, algorithms, any new innovations etc. (details in brief)
    - Its importance or applications
    - Find out the drawback or limitations if any
        - Criticize the work (on its drawbacks or incompleteness)
- Link these criticisms on the existing works to the "motivation" in chapter 1 behind the reason for selecting this project. You may also include other motivation factors also.

Chapter 3: REQUIREMENT ANAYSIS

- Project requirements (Hardware and software)
- Feasibility study

Chapter 4: SYSTEM (OR PROJECT) DESIGN

- Block diagram or System Architecture or Circuit Diagram: explain all the building blocks of your system in details (what and how it does the things?)
  Example: Preprocessing block — write down what and how it does
- ER-Diagram (if applicable)
- Data Flow Diagram and other design methods and tools (if applicable)

Chapter 5: METHODOLGY

- It may contain the same thing (blocks or units) that have been explained in chapter 4. But the explanation should be in detail in a particular sequence in which you have done your work along with detail algorithms, procedures, circuit diagrams or others which illustrate the *"how"* part in detail.

  Example: Preprocessing block — write down what and how it does along with different algorithms or diagrams that you have designed or used.

- In few of the projects the chapter 4 and 5 may be combined together into *"System (or Project) Design and Methodology"*.

Chapter 6: RESULT AND ANAYSIS

- It contains the result of output of your project. The output can be numeric or graphical based.
- Represent or write down the results in tabular form if applicable and analyze that by using graphs or charts. Also make a comparison of your work with the existing one(s).

Chapter 8: CONCLUSION AND FUTURE ENHANCEMENTS

- Conclusion
- Limitations
- Future Enhancement

REFERENCING / BIBLIOGRAPHY

- Referencing should be done using **IEEE Format/ referencing** system. All sources cited in the text should be included in the list (references). Additional sources **not used in text** should **not be included** in the references.
- **Authors, "Title," Conference/Journal name, vol., date, pp.**
  (**Example**: T. Murata and H. Ishibuchi, "Performance evaluation of genetic algorithms for flowshop scheduling problems," in Proc. 1st IEEE Conf. Evolutionary Computation, vol. 2, June 1994, pp. 812–817.)
- **Authors; Title; Publisher, Place, Date; Page numbers.**
  (**Example**: SMITH J.F. JONES B.D.; "Handbook of Communications," Wiley, New York, 1979, pp 76-82.)
- **Website Authors (if any), "title (if any)," Full URL, date visited**

APPENDICES

- it contains the additional topics or data sheets or reference sheets or even user manual the appendix name should be give in capital alphabets starting from 'A'.

  Example: **Appendix A : User Manual**

  Appendix B :

  Appendix C :

Here are few examples for reference.

Book

[1] B. Klaus and P. Horn, Robot Vision. Cambridge, MA: MIT Press, 1986.

[2] L. Stein, "Random patterns," in Computers and You, J. S. Brake, Ed. New York: Wiley, 1994, pp. 55-70.

[3] R. L. Myer, "Parametric oscillators and nonlinear materials," in Nonlinear Optics, vol. 4, P. G. Harper and B. S. Wherret, Eds. San Francisco, CA: Academic, 1977, pp. 47-160.

[4] M. Abramowitz and I. A. Stegun, Eds., Handbook of Mathematical Functions (Applied Mathematics Series 55). Washington, DC: NBS, 1964, pp. 32-33.

[5] E. F. Moore, “Gedanken-experiments on sequential machines,” in Automata Studies (Ann. of Mathematical Studies, no. 1), C. E. Shannon and J. McCarthy, Eds. Princeton, NJ: Princeton Univ. Press, 1965, pp. 129-153.

[6] Westinghouse Electric Corporation (Staff of Technology and Science, Aerospace Div.), Integrated Electronic Systems. Englewood Cliffs, NJ: Prentice-Hall, 1970.

[7] M. Gorkii, “Optimal design,” Dokl. Akad. Nauk SSSR, vol. 12, pp. 111-122, 1961 (Transl.: in L. Pontryagin, Ed., The Mathematical Theory of Optimal Processes. New York: Interscience, 1962, ch. 2, sec. 3, pp. 127-135).

[8] G. O. Young, “Synthetic structure of industrial plastics,” in Plastics, vol. 3, Polymers of Hexadromicon, J. Peters, Ed., 2nd ed. New York: McGraw-Hill, 1964, pp. 15-64.

Handbook

Basic Format:

[1] Name of Manual/Handbook, x ed., Abbrev. Name of Co., City of Co.,Abbrev. State, year, pp. xx-xx

Examples:

[1] Transmission Systems for Communications, 3rd ed., Western Electric Co., Winston-Salem, NC, 1985, pp. 44-60.

[2] Motorola Semiconductor Data Manual, Motorola Semiconductor Products Inc., Phoenix, AZ, 1989.

[3] RCA Receiving Tube Manual, Radio Corp. of America, Electronic Components and Devices, Harrison, NJ, Tech. Ser. RC-23, 1992.

Reports

Basic Format:

[1] J. K. Author, “Title of report,” Abbrev. Name of Co., City of Co., Abbrev. State, Rep. xxx, year.

Examples:

[1] E. E. Reber absorption in the earth’s atmosphere,” Aerospace Corp., Los Angeles, CA, Tech. Rep. TR-0200 (4230-46)-3, Nov. 1988.

[2] J. H. Davis and J. R. Cogdell, "Calibration program for the 16-foot antenna," Elect. Eng. Res. Lab., Univ. Texas, Austin, Tech. Memo. NGL- 006-69-3, Nov. 15, 1987.

[3] R. E. Haskell and C. T. Case, "Transient signal propagation in lossless isotropic plasmas," USAF Cambridge Res. Labs., Cambridge, MA, Rep. ARCRL-66-234 (II), 1994, vol. 2.

[4] M. A. Brusberg and E. N. Clark, "Installation, operation, and data evaluation of an oblique-incidence ionosphere sounder system," in "Radio Propagation Characteristics of the Washington-Honolulu Path," Stanford Res. Inst., Stanford, CA, Contract NOBSR-87615, Final Rep., Feb. 1995, vol. 1.

[5] P. Diament and W. L. Lupatkin, "V-line surface-wave radiation and scanning," Dept. Elect. Eng., New York, Sci. Rep. 85, Aug. 1991.

WWW

Basic Format:

[1] J. K. Author. (Year, month day). Title (edition) [Type of medium]. Available: http: //www. (URL) (Referred on: date)

Example:

[1] J Jones. (1991, May 10). Networks (2nd ed.) [Online]. Available: http://www.atm.com (Referred on: March 12, 2019)

TRIBHUVAN UNIVERSITY

INSTITUTE OF ENGINEERING

HIMALAYA COLLEGE OF ENGINEERING

A FINAL YEAR PROJECT REPORT

ON

[YOUR PROJECT TITLE]

[CT-455]

SUBMITTED TO:

DEPARTMENT OF ELECTRONICS AND COMPUTER ENGINEERING

CHYASAL, LALITPUR

SUBMITTED BY:

MEMBER 1 (SYMBOL NUMBER)

MEMBER 2 (SYMBOL NUMBER)

MEMBER 3 (SYMBOL NUMBER)

MEMBER 4 (SYMBOL NUMBER)

August, 2019

[YOUR PROJECT TITLE]

A FINAL YEAR MAJOR PROJECT REPORT

[CT-455]

“A FINAL YEAR MAJOR PROJECT REPORT SUBMITTED FOR PARTIAL FULFILLMENT OF THE DEGREE OF BACHELORS’ IN COMPUTER ENGINEERING”

SUPERVISOR

Supervisor’s Name

SUBMITTED TO:

TRIBHUVAN UNIVERSITY

INSTITUTE OF ENGINEERING

HIMALAYA COLLEGE OF ENGINEERING

DEPARTMENT OF ELECTRONICS AND COMPUTER ENGINEERING

CHYASAL, LALITPUR

SUBMITTED BY:

MEMBER 1 (SYMBOL NUMBER)

MEMBER 2 (SYMBOL NUMBER)

MEMBER 3 (SYMBOL NUMBER)

MEMBER 4 (SYMBOL NUMBER)

August, 2019