(TITLE 22pt)

Submitted in partial fulfilment of the requirements of the degree of(12pt)

BACHELOR OF COMPUTER ENGINEERING (16pt)

by

(Name of Student, IEN 15pt)

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Department of Computer Engineering

A. P. SHAH INSTITUTE OF TECHNOLOGY, THANE(15pt)

(2021-2022)

A. P. SHAH INSTITUTE OF TECHNOLOGY

CERTIFICATE

This is to certify that the Mini Project 2B entitled "Title of Project" is a bonafide work of **"Name of Students" (IEN)** submitted to the University of Mumbai in partial fulfilment of the requirement for the award of the degree of **Bachelor of Engineering** in **Computer Engineering**

_____

(Name and Sign)

Guide

_____

(Name and Sign)

Head of Department

A. P. SHAH INSTITUTE OF TECHNOLOGY

Project Report Approval for SE/TE

This Mini project report entitled *(Title)* by *(Author Name)* is approved for the degree of *Bachelor of Engineering* in *Computer Engineering*, *2021-22*.

Examiner Name Signature
1._____
2._____

Date:

Place:

Declaration

We declare that this written submission represents my ideas in my own words and where others' ideas or words have been included, I have adequately cited and referenced the original sources. I also declare that I have adhered to all principles of academic honesty and integrity and have not misrepresented or fabricated or falsified any idea/data/fact/source in my submission. I understand that any violation of the above will be cause for disciplinary action by the Institute and can also evoke penal action from the sources which have thus not been properly cited or from whom proper permission has not been taken when needed.

(Signature)

(Name of student and IEN)

(Signature)

(Name of student and IEN)

(Signature)

(Name of student and IEN)

Date:

Abstract

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for

BACHELOR OF ENGINEERING

A. P. SHAH
INSTITUTE OF TECHNOLOGY

APPROVED BY AICTE & DTE

AFFILIATED TO UNIVERSITY OF MUMBAI

Guidelines for the preparation of thesis Reports

Preamble:

The content of the thesis report (hereinafter called a report) must be paid utmost attention, which is being submitted in partial fulfilment of the requirements of the Under-graduation degrees. A Standard format is equally important and may be prescribed by the University of Mumbai, which helps in bringing uniformity in all the reports and improves the aesthetics of the report. The same format shall also be followed in the preparation of the final soft copies to be submitted to the library.

1. Organization of the Thesis report

This report shall be presented in a number of chapters, starting with Introduction, and ending with Conclusions. It shall be ensured that all the chapters will have a precise title reflecting the contents of the chapter. A chapter can be subdivided into sections, subsections, and so on as to present the content discretely and with due emphasis.

1.1 Introduction:

The title of Chapter 1 shall be Introduction. It shall justify and highlight the problem posed, define the topic, and explain the aim and scope of the work presented in the report. It may also highlight the significant contributions from the investigation.

1.2 Literature Survey:

This shall normally form Chapter 2 and shall present a critical appraisal of the previous work published in the literature about the topic of the investigation. The extent and emphasis of the chapter shall depend on the nature of the investigation.

1.3 Problem Statement, Objectives, and Scope

This section should identify the Problem, the main objectives of the study, the scope which indicates the usefulness of the project, how applicable it is.

A problem statement is usually one or two sentences to explain the problem your process improvement project will address. In general, a problem statement will outline the negative points of the current situation and explain why these matters or why it is necessary.
Objective: This involves stating accurately what the project wants to achieve. That is, what, why, and how these will be done

1.4 Requirement Analysis & Methodology

The reporting on the investigation shall be presented in one or more chapters with appropriate chapter titles.

Requirement analysis will include the Software Requirement, Hardware Requirement for the project.

Due importance shall be given to experimental setups, procedures adopted, techniques developed, methodologies developed and adopted.

While important derivations/formulae should normally be presented in the text of these chapters, extensive and long treatments, copious details, and tedious information, detailed results in tabular and graphical forms may be presented in Appendices. Representative data in tables and figures may, however, be included in appropriate chapters.

Figures and tables should be presented immediately following their first mention in the text. Short tables and figures (say, less than half the writing area of the page) should be presented within the text, while large tables and figures may be presented on separate pages.

Equations should form separate lines with appropriate paragraph separation above and below the equation line, with equation numbers flushed to the right.

1.5 Project Planning and Scheduling

This section should identify the project schedule. Duration required for the implementation of each module.

1.6 System Design and Implementation

This shall form the penultimate chapter of the report and shall include the system architecture and the appropriate UML diagrams for the understanding of the system in detail.

Implementation will include the details of the Algorithm implemented. The methods section describes actions to be taken to investigate a research problem and the rationale for the application of specific procedures or techniques used to identify select, process, and analyse information applied to understanding the problem, thereby, allowing the reader to critically evaluate a study's overall validity and reliability

1.7 Results & Discussion

This shall form the penultimate chapter of the report and shall include a thorough evaluation of the investigation carried out and bring out the contributions from the study. Appropriate test cases should be included, and the results must be evaluated with the analysis parameters identified.

The discussion shall logically lead to inferences and conclusions as well as scope for possible further future work.

1.8 Conclusion

This will be the final chapter of the report. A brief report of the work carried out shall form the first part of the Chapter. Conclusions derived from the logical analysis presented in the Results and Discussions Chapter shall be presented and enumerated, each point stated separately. Scope for future work should be stated lucidly in the last part of the chapter.

References:

ASME
standard Book,
[1] Merritt, H. E., 1971, Gear Engineering, Pitman, New York, pp. 82–83.

Journal Paper,
[2] Arakere, N. K., and Nataraj, C., 1998, "Vibration of High-Speed Spur Gear Webs," ASME Journal of Vibration Acoustics, 120(3), pp. 791–800.

Proceeding, Paper,
[3] Stewart, R. M., 1977, "Some Useful Data Analysis Techniques for Gearbox Diagnostics," Proceedings of the Meeting on the Application of Time Series Analysis, ISVR, University of Southampton, Southampton, UK.

Thesis,
[4] Kong, D. W., 2008, "Research on the Dynamics and Fault Diagnosis of the Large Gear Transmission Systems," Ph.D., thesis, JiLin University, Changchun, China.

IEEE standard
Book,
[1] J. F. Curtis, (Ed.), Processes and Disorders of Human Communication. New York: Harper and Row, 1978.
Journal Paper,
[2] J. Schroeterand M. M. Sondhi, "Techniques for estimating vocal-tract shapes from the speech signal," IEEE Trans. Speech Audio Process., vol. 2, no. 1, pp. 133–150, 1994. Proceeding paper,
[3]J. M. Pardo, "Vocal tract shape analysis for children," in Proc. IEEE Int. Conf. Acoust., Speech, Signal Process., 1982, pp. 763–766.

Appendix:

Detailed information, lengthy derivations, raw experimental observations, etc. are to be presented in the separate appendices, which shall be numbered in Roman Capitals (e.g. "Appendix I"). Since

reference can be drawn to published/unpublished literature in the appendices these should precede the "Literature Cited" section.

Literature Cited:

This should follow the Appendices, if any, otherwise the Conclusions chapter. The candidates shall follow the style of citation and style of listing in one of the standard journals in the subject area consistently throughout his/her report, for example, IEEE in the Department of Electrical Engineering, ASME in Department of Mechanical Engineering. However, the names of all the authors along with their initials and the full title of the article/monogram/book, etc. must be given in addition to the journals/publishers, volume, number, pages(s), and year of publication.

Citation from websites should include the names(s) of the author(s) (including the initials), the full title of the article, website reference, and when last accessed. Reference to personal communications, similarly, shall include the author, title of the communication (if any), and date of receipt.

Publications by the candidate:

Articles, technical notes, etc. on the topic of the report published by the candidate may be separately listed after the literature cited. This may also be included in the contents. The candidates may also include reprints of his/her publications after the literature citation.

Acknowledgements:

The acknowledgments by the candidate shall follow the citation of literature, signed by him/her, with the date.

2.0 Thesis Reports Format

2.1 Paper:

The report shall be printed/xeroxed on white bond paper, whiteness 95% or above, weight 70 gram or more per square meter. The size of the paper shall be standard A4; height 297 mm, width 210 mm.

2.2 Type - Setting, Text Processing, and Printing:

The text shall be printed on a single side of a page employing laser jet or Inkjet printer, the text having been processed using a standard text processor. The standard font shall be **Times New Roman** of **12 pts** with **1.5 line spacing**.

2.2.1 Page Format:

The Printed Sheets shall have the following written area and margins:
Top Margin: 15 mm
Head Height: 3 mm

Head Separation: 12 mm

Bottom Margin: 22 mm

Footer: 3 mm

Foot Separation: 10 mm

Left Margin: 30 mm

Right Margin: 20 mm

Text Height : 245 mm

Text Width : 160 mm
When header is not used the top margin shall be 30 mm.

2.2.2 Pagination:

Page numbering in the text of the report shall be Hindu- Arabic numerals at the center of the footer. Page number "1" for the first page of the Introduction chapter shall not appear in print; only the second page will bear the number "2". The subsequent chapters shall begin on a fresh page. Pagination for pages before the Introduction chapter shall be in lower case Roman numerals, e.g., "iv".

2.2.3 Header:

When the header style is chosen, the header can have the Chapter number and Section number (e.g, Chapter 2, Section 3) on even numbered page headers and Chapter title or Section title on the odd numbered page header.

2.2.4 Paragraph format:

Vertical space between paragraphs shall be about 2.5 line spacing. The first line of each paragraph should normally be indented by five characters or 12mm. A candidate may, however, choose not to indent if s/he has provided sufficient paragraph separation. A paragraph should normally comprise more than one line. A single line of a paragraph shall not be left at the top or bottom of a page. The word at the right end of the first line of a page or paragraph should, as far as possible, not be hyphenated.

2.3 Chapter and Section Format:

2.3.1 Chapter:

Each chapter shall begin on a fresh page with an additional top margin of about 75mm. Chapter number (in Hindu - Arabic) and title shall be printed at the center of the line in 6mm font size (18pt) in bold face using both upper and lower case (all capitals or small capitals shall not be used). A vertical gap of about 12 mm (spacing after font size 36 with single line spacing) shall be left between the Chapter number and Chapter title lines and between chapter title line and the first paragraph (sample is given as specimen „E").

2.3.2 Sections and Sub-sections:

A chapter can be divided into Sections, Sub-sections, and Sub-sub-Sections to present different concepts separately. Sections and sub-sections can be numbered using decimal points, e.g., 2.2 for the second section in Chapter 2 and 2.3.4 for the fourth Sub-section in third Section of Chapter 2. Chapters, Sections and Subsections shall be included in the contents with page numbers flushed to the right. Further subsections need not be numbered or included in the contents.

The Section and Sub - Section titles along with their numbers in 5 and 4mm (16 and 14 pt.) fonts, respectively, in bold face shall be flushed to the left (not cantered) with 15 mm space above and below these lines.
In further subdivisions character size of 3 and 3.5 with bold face, small caps, all caps, and italics may be used for the titles flushed left or centered. These shall not feature in the contents.

2.3.3 Table / Figure Format:

Tables and figures should be presented in portrait style as far as possible. Small size table and figures (less than half of writing area of a page) should be incorporated within the text, while larger ones may be presented on separate pages. Table and figures shall be numbered chapter -wise. For example, the fourth figure in chapter 5 will bear the number Figure 5.4 or Fig 5.4.

Table number and title will be placed above the table while the figure number and caption will be located below the figure. Reference for Table and Figures reproduced from elsewhere shall be cited in the last and separate line in the table and figure caption.

3.1 Front Covers:

The front covers shall contain the following details:

- Full title of thesis in 6 mm 22 point's size font properly centered and positioned at the top.

- Full name of the candidate in 4.5 mm 15 point's size font properly centered at the middle of the page.

- A 50 mm dia replica of the Institute emblem followed by the name of department, name of the Institute and the year of submission, each in a separate line and properly centered and located at the bottom of page.

3.1 Blank Sheets:

In addition to the white sheets (binding requirement) two white sheets shall be put at the beginning and the end of the report.

3.2 Title Sheet:

This shall be the first printed page of the report and shall contain the submission statement: The Thesis/Dissertation/project Report submitted in partial fulfilment of the requirements of the Degree, Ph.D. /M.E./B.E., the name and Roll No. of the candidate, name(s) of the Supervisor and Co-supervisor (s) (if any), Department, Institute, and year of submission.

- Sample copy of the 'Title Sheet' is attached

3.3 Abstract:

The 500word abstract shall highlight the important features of the thesis/dissertation/project report and shall correspond to the electronic version to be submitted to the Library for inclusion on the website. The Abstract in the thesis, however, shall have two more parts, namely, the layout of the thesis giving a brief chapter- wise description of the work and the key words.

3.4 Contents, List of Figures and Tables:

The contents shall follow the Abstract and shall enlist the titles of the chapters, section and sub-section using decimal notation, as in the text, with corresponding page number against them, flushed to the right.

Two separate lists of Figure captions and Table titles along with their numbers and corresponding page numbers against them shall follow the Contents.

3.5 Abbreviation Notation and Nomenclature:

A complete and comprehensive list of all abbreviations, notations and nomenclature including Greek alphabets with subscripts and superscripts shall be provided after the list of tables and figures. (As far

as possible, generally accepted symbols and notation should be used).

Auxiliary page from dedication (if any) to abbreviations shall be numbered using Roman numerals in lower case, while the text starting from the Introduction shall be in Hindu-Arabic. (The first pages in the both the cases shall not bear a page number).

3.6 A Declaration of Academic Honesty and Integrity:

A declaration of Academic honesty and integrity is required to be included along with every thesis/dissertation/ project report after the approval sheet. The format of this declaration is given.