A Report on

Title of the Report
(20 Font,Times New Roman, Center Align,Bold)

Submitted for partial fulfillment of award of degree
(14 Font,Times New Roman, Center Align,Italic)

BACHELOR OF TECHNOLOGY
(16 Font,Times New Roman, Center Align, Bold)

In

Computer Science & Engineering (Data Science)
(14 Font,Times New Roman, Center Align)

By

STUDENT NAME
(13 Font,Times New Roman, Center Align)
(name with Roll No.)

Name of the Guide

SUPERVISOR NAME
(13 Font,Times New Roman, Center Align)

INDERPRASTHA ENGINEERING COLLEGE, GHAZIABAD,

Dr. A P J ABDUL KALAM TECHNICAL UNIVERSITY
LUCKNOW
May 2025

CERTIFICATE

This is to certify that the Project Report entitled, **"Project Title"** and submitted by **Name of student** in partial fulfillment of the requirement for the award of Bachelor of Technology degree in **Computer Science and Engineering(Data Science)** at **Inderprastha Engineering College, Ghaziabad** is an authentic work carried out by him under my supervision and guidance. To the best of my knowledge, the matter embodied in the thesis has not been submitted to any other University/Institute for the award of any Degree or Diploma.

Signature | **Dr. Sudhir Dawra**
Name of Project Mentor | HOD CSE(Data Science)
Designation | Inderprastha Engineering College
Inderprastha Engineering College | Ghaziabad
Ghaziabad |

Date:

Acknowledgement

We take this opportunity to thank our teachers and friends who helped us throughout the project.

First and foremost I would like to thank my guide for the project (***Name of the Guide, designation, Department***) for her/his valuable advice and time during development of project.

We would also like to thank **Dr. Sudhir Dawra (HOD, Computer Science and Engineering (Data Science**)) for his constant support during the development of the project.

Student Name 1   Student Name 2

Roll No.   Roll No.

Signature: Signature:

Declaration

I hereby declare that this submission is my own work and that, to the best of my knowledge and belief, it contains no material previously published or written by another person nor material which to a substantial extent has been accepted for the award of any other degree or diploma of the university or other institute of higher learning, except where due acknowledgment has been made in the text.

Signature: *Signature:*

Name: *Name:*

Roll No.:   *Roll No.:*

*(**Add more labels, if required**)*

Date:

Abstract

In this section one should speak what he has made in abstract sense (even a person not aware of your technology must be able to understand and appreciate your work), whatever the system you have built is going to provide as a service, application, tool etc. Once again I advise don't go in detail and present your work in most abstract way.

(A typical Specimen of Table of Contents)
<Font Style Times New Roman- size-14>

TABLE of CONTENTS

1.   INTRODUCTION   **Page No**
   1.1 Problem Definition
   1.2 Background about the project idea
   1.3 Objectives of proposed system
   1.4 Feasibility Study, need and significance
   1.5 Hardware and Software required

2.   LITERATURE REVIEW
   2.1 Existing System - Theoretical and methodological contributions to a
       particular topic of scholarly papers/ articles /books
   2.2 Proposed System

3.   SOFTWARE REQUIREMENT ANALYSIS
   3.1. Functional Requirements
       a)   Use Case diagram with proper factoring
       b)   Use case descriptions
   3.2. Nonfunctional Requirements
   3.3. Major Modules and their functionalities

4.   SYSTEM ANALYSIS & DESIGN
   4.1 Class designs (Wherever applicable)
   4.2 Sequence diagrams
   4.3 Activity Diagrams
   4.4 DFDs of the project
   4.5 Database Design
        4.5.1 E-R Diagrams
   4.6 Gantt Chart & Pert Chart (Wherever applicable)

5.   IMPLEMENTATION/CORE MODULE
   5.1 Tables – explaining all fields and their data types for data base used in
       project.
   5.2 Used Algorithms/Approaches for Research projects.
   5.3 Implementation of Modules/Algorithms.

6.   RESULTS / OUTPUTS & TESTING
   6.1   All user interfaces and output screens

MANUAL FOR PREPARATION OF PROJECT REPORT
(Prescribed Format and Specification)

1. NUMBER OF COPIES TO BE SUBMITTED FOR EVALUATION:

❖ **2 copies of hard bound at the end of VIII semester.**

2. BINDING SPECIFICATIONS

❖ **2 copy of hard bound(BLACK COLOUR with GOLDEN TEXT) at the end of VIII semester.**
❖

The title of project & (2024-25) should also be printed on the *spine* of the report .

- SIZE OF REPORT:

The size of report should not exceed 300 Pages of typed matter reckoned from the first page of Chapter 1 to the last page of the Appendix.

4. ARRANGEMENT OF CONTENTS OF THESIS:

The sequence in which the thesis material should be arranged and bound should be as follows:

1. Cover Page & Title Page
2. Bonafide Certificate
3. Acknowledgement
4. Abstract
5. Table of Contents
6. List of tables
7. List of Figures
8. List of Symbols, Abbreviations and Nomenclature
9. Chapters I, II , ……..
10. Appendices
11. References

The Tables and figures shall be introduced in the appropriate places.

4.1 Cover Page & Title Page- A specimen copy of the Cover page & Title page for thesis are given .

4.2 Bonafide Certificate- The Bonafide Certificate shall be in double line spacing using Font Style Times New Roman Font Size 14, as per the format.

The certificate shall carry the supervisor's signature ands shall be followed by the supervisor's name, academic designation (not any other responsibilities of administrative

nature), department and full address of the institution where the supervisor has guided research scholar. The term **'SUPERVISOR'** must be typed in capital letters between the supervisor's name and academic designation.

4.3   **Abstract-** Abstract should be an essay type of narration not exceeding four pages outlining the research problem, the methodology used for tacking it an a summary of the findings, when typed double line spacing, font Style Times New Roman and Font Size 14.

4.4   **Acknowledgement-** The Acknowledgement shall be brief and should not exceed one page when typed in double spacing. The scholar's signature shall be made at the bottom end above his./ her name typed in capitals.

4.5   **Table of contents-** The title page, Bonafide Certificate and Acknowledgement will not find a place among the items listed in the Table of Contents but the page numbers in lower case Roman letters are to be accounted for them.

4.6   **List of Table-** The list should use exactly the same captions as they appear above the tables in the text. One and a half spacing should be adopted for typing the matter under this head.

4.7   **List of Figures-** The list should use exactly the same captions as they appear above the tables in the text. One and a half spacing should be adopted for typing the matter under this head.

4.8   **List of Symbols, abbreviations and Nomenclature-** One and a half spacing should be adopted for typing the matter under this head. Standard symbols, abbreviations etc. should be used.

4.9   **Chapters-** The chapters may be broadly divided into different parts as defined in index. The main text will be divided into several chapters and each chapter may be further divided into several divisions and sub- divisions.

- Each chapter should be given as appropriate title.

- Tables and figures in a chapter should be typed single space and placed directly underneath in the very same page, which refers to the material they annotate.

- Footnotes should be used sparingly. They should be typed single space and placed directly underneath in the very same page, which refers to the material they annotate.

4.10   **Appendices-** Appendices are provided to give supplementary information, which if included in the main text may serve as a distraction and could the central theme under discussion.

4.11   **List of Reference-** Any work of other researchers, if used either directly or indirectly, the origin of the material thus referred to at appropriate places in the thesis should be indicated. A paper, a monograph or a book may be designed by the name of the first author followed by the year of publication, placed inside brackets at the appropriate places in the thesis should be indicated. A paper, a monograph or a book may be inside brackets at the appropriate place of reference. The citation may assume any one of the following forms.

Examples of citation

(i)   An improved algorithm has been adopted in literature (Tsychiya 1980)

(ii)   Jankins and Walts (1968) have dealt at length this principle.

(iii)   The problem of mechanical manupulators has been studied by Shin et al (1984) and certain limitions of the method used, had been pointed out by Shin et al (1984 a).

The listing should be typed 4 spaces below the heading "REFERENCES" in alphabetical order in single spacing left-justified. The reference material should be listed in the alphabetical order of the author. The name of the authors/authors should be immediately followed by the year and other details. A typical illustrative list given relates to the citation examples quoted above.

REFERENCES

1. Ariponnammal S. and Natarajan S. (1994) ' Transport Phenomena of Sm Se 1-x Asx' Pramana-Journal of Physics Vol. 42 No. 5pp. 421-425.

2. Barnard R.W. and Kellogg C. (1980) 'Applications of Convolution operators to problems in univalent function theory. Michigan Mach. J., Vol 27, pp 81-94.

3. Jankins G.M. and Walts D.G. (1968), Spectral Analysis and its Applications' Holder Day, Sanfrancisco.

4. Shin K.G.and Mckay N.D. (1984) 'Open loop minimum time control of mechanical manipulations and its applications', Proc. Amer Contr. Conf., San Diego, CA, pp. 1231-1236.

4.12   Tables and figures- By the word Table, is meant tabulated numerical data in the body of the thesis as well as in the appendices. All other non-verbal material used in the body of the thesis and appendices such as charts, graphs, maps, photographs and diagrams may be designated as figures.

- A table or figure including caption should be accommodated within the prescribed margin limits and appear on the page following the page where their first references is made.

- Table and figures on half or less in length may appear on the same page along with the text. However, they should be separated from the text both above and below by triple spacing.

- All tables and figures should be prepared on the same paper or material used for the preparation of the rest of the spacing.

- For preparing captions, numerals, symbols or characters in the case of table or figures, the Computers should be enclosed.

- Two or more small tables or figures may be grouped if necessary in a single page.

- Wherever possible, the entire photographs(s) may be reproduced on a full sheet of photographic paper.

- Photographs if any should be included in the colour Xerox from only. More than one photograph can be included in a page.

- Samples of Fabric, Leather, etc., if absolutely necessary may be attached evenly in a page and fixed/ pasted suitably and should be treated as figures.

5.   TYPING INSTRUCTIONS

5.1   General

A sub-heading at the bottom of a page must have at least two full lines below it or else it should be carried over to the next page. The last word of any page should not be split using a hyphen. One and a half spacing should be used for typing the general text. The general text shall be typed in font Style Times New Roman and Font Size 14.

Single spacing should be used for typing:

(i)   Long Tables
(ii)   Long quotations
(iii)   Foot notes
(iv)   Multilane captions
(v)   References

All quotations exceeding one line should be typed in an indented space- the indentation being 15mm from either margin.

5.2   Chapters

The format for typing Chapter headings Divisions headings and sub-division headings are explained through the following illustrative examples.

Chapter headings   :   CHAPTER 1
                              INTRODUCTION

Division heading   :   1.1 OUTLINE OF THESIS

Sub-division heading :   1.1.2 Literature review.

The word CHAPTER without punctuation should be centered 50mm down from the top of the page. Two spaces below, the title of the chapter should be typed centrally in capital letters. The text should commence 4 spaces below this title, the first letter of the text starting 20mm, inside from the left hand margin.

The division and sub-division captions along with their numberings should be left-justified. The typed material directly below division or sub-division headings should commence 2 spaces below it and should be offset 20mm from the left hand margin. Within a division or sub-division paragraphs are permitted. Even paragraph should commerce 3 space below the last line of the preceding paragraph, the first letter in the paragraph being offset from the left hand margin by 20mm.

6.   NUMBERING INSTRUCTIONS

6.1   Page Numbering

All pages numbers (whether it be in Roman or Arabic numbers) should be typed without punctuation on the lower right hand corner. The preliminary pages of the thesis

(such as Title page, Acknowledgement, Table of Contents etc.) should be numbered in lower case Roman numerals.

6.2   Numbering of Chapters, Division and Sub-divisions.

The numbering of Chapters, division and sub-divisions should be done using Arabic numerals only and further decimal notation should be used for numbering the divisions and sub-divisions within a chapter. For examples sub-division 4 under division 3 belonging to chapter 2 should be numbered as 2.3.4. The caption for the sub-division should immediately follow the number assigned to it.

Every chapter beginning with the first chapter should be serially numbered using Arabic numerals. Appendices included should also be numbered in an identical manner starting with Appendix 1.

6.3   Numbering of Tables and figures

Tables and figures appearing anywhere in the thesis should, bear appropriate numbers. The rule for assigning such numbers is illustrated through an examples. Thus, if a figure in Chapter 3, happens to be the fourth then assign 3.4 to that figure. Identical rules apply for tables except that the word figure is replaced by the word Table. If figures (or tables) appear in appendices then figure 3 in Appendix 2 will be designated as figure A 2.3. If a table to be continued into the next page this may be done, but on line should be drawn underneath an unfinished table. The top line of table continued into the next page should, for example read Table 2.1 (continued) placed centrally and underlined.

6.4   Numbering of Equations

Equations appearing in each Chapter or Appendix should be numbered serially, the numbering commencing a fresh for each Chapter or Appendix. Thus for Example, an equation appearing in Chapter 2, if it happens to be the eighth equation in that Chapter should be numbered (2.8) thus:

$$f_c = k \left[\frac{V_c}{V_c + V_w + V_a} \right]^2 \qquad\qquad (4.4)$$

While referring to this equation in the body of the thesis it should be referred to as Equation (4.4).

<p align="center">✵✵✵✵✵</p>