Gandhi Engineering College

(Department of Computer Science and Engineering)

Format for Major Project Report

Title page

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1. **Chapter 1 Introduction**
   - 1.1. Introduction to Project
   - 1.2. Project Category(Internet-based, Application or System Development, Research-based,Industry Automation, Network or System Administration)
   - 1.3. Objectives
   - 1.4. Problem Formulation
   - 1.5. Identification/Reorganisation of Need
   - 1.6. Existing System
   - 1.7. Proposed System
   - 1.8. Unique Features of the System

2. **Chapter 2. Requirement Analysis and System Specification**
   - 2.1. Feasibility study (Technical, Economical, Operational)
   - 2.2. Software Requirement Specification Document which must include the
   - 2.3. following :-
     - 2.3.1. Data Requirement
     - 2.3.2. Functional Requirement
     - 2.3.3. Performance Requirement
     - 2.3.4. Dependability Requirement
     - 2.3.5. Maintainability requirement
     - 2.3.6. Security requirement
     - 2.3.7. Look and feel requirement
   - 2.4. Validation
   - 2.5. Expected hurdles
   - 2.6. SDLC model to be used

3. **Chapter 3. System Design**
   - 3.1. Design Approach (Function oriented or Object oriented) Detail Design

3.2. System Design using various Structured analysis and design tools such as :-
    3.2.1. DFD's
    3.2.2. Data Dictionary
    3.2.3. Structured charts
    3.2.4. Flowcharts or UML
3.3. User Interface Design
3.4. Database Design
3.5. ER Diagrams
3.6. Normalisation
3.7. Database Manipulation
3.8. Database Connection Controls
3.9. Strings Methodology

4. Chapter 4. Implementation, Testing, and Maintenance

4.1. Introduction to Languages, IDE's, Tools and Technologies used for implementation
4.2. Coding standards of Language used
4.3. Project Scheduling using various tools such as :-
    4.3.1. PERT
    4.3.2. GANTT Charts
    4.3.3. OpenPROJ etc.
4.4. Testing Techniques and Test Plans

5. Chapter 5. Results and Discussions

5.1. User Interface Representation (of Respective Project)
5.2. Brief Description of Various Modules of the system
5.3. Snapshots of system with brief detail of each
5.4. Back Ends Representation (Database to be used)
5.5. Snapshots of Database Tables with brief description.

6. Chapter 6. Conclusion & Future Scope

7. References / Bibliography

SPECIFICATIONS FOR MAJOR PROJECT REPORT

1. Report shall be computer typed (English- British, Font -Times New Roman, Size-12 point) and printed on A4 paper.
2. The report cover page is white. The name of the candidate, degree (specifying the branch) , roll no, session, year of submission, and name of the University, including college name, shall be printed in black on the cover [Refer sample sheet (outer cover)]
3. The report shall be typed on one side only with double space with a margin of 3.5 cm on the left, 2.5 cm on the top, and 1.25 cm on the right and at the bottom.

Headers/ Footers: Times New Roman Size 10

Equations: Should be edited with Microsoft Equation and should be numbered in ascending order

Page Numbers: Start with Page 1 at the beginning of Chapter 1. Page numbers should be centred at the bottom of the page.

Body Text: English- British, Font -Times New Roman, Size-12 point and double spacing

Chapter name /Heading: Font -Times New Roman, Size-18 point

Subheading: Font -Times New Roman, Size-16 point

Subsubheading: Font -Times New Roman, Size-16 point

(Chapter headings and subheadings should be numbered as per the chapter. The basic styling is as given bellow)

Chapter I

Heading

1.1Subheading

1.1.1 Subsubheading1

1.1.2 Subsubheading1

4. In the report, the title page [Refer sample sheet (inner cover)] should be given first, then the Certificate by the candidate and the supervisor(s) in sequence, followed by an abstract of the report (not exceeding 1500 words). The acknowledgement should follow this, list of figures/list of tables, notations/nomenclature, and then contents with page no.s
5. References and Bibliography should be included in the report.
7. The diagrams should be printed on a light/white background; Tabular matter should be arranged. The decimal point may be indicated by full stop(.)The caption for the Figure must be given at the BOTTOM of the Fig., and the Caption for the Table must be provided at the TOP of the Table.
8. For proper comparison, The graphs should be combined for the same parameters. Single graphs should be avoided as far as possible.
9. Conclusions must be at most two pages.
10. The report must consist of the following chapters

Chapter 1- Introduction
Chapter 2- Requirement Analysis and System Specification
Chapter 3- System Design
Chapter 4- Implementation, Testing and Maintenance
Chapter 5-Results and Discussions
Chapter 6-Conclusion and Future Scope References
Appendix (if any)
Annexures-I,II, III

The responsibilities of Project Guide Includes:

1. Briefing the students and appraising them about the final year Major Project regulations.
2. Setting a framework for regularly scheduled progress meetings between the Faculty Guide and the student.
3. Giving frequent feedback/comments on progress achieved by the student.
4. Giving guidance about relevant literature and theoretical understudy appropriate literature

sources.

5. Submit the attendance and progress of work at the end of each week to the Project Coordinator and HoD.
6. Providing advice on plagiarism issues that align with the college regulations.
7. Assisted in identifying a research methodology and planning and executing the research project (if applicable).
8. Give guidance on the appropriate analysis of data obtained, interpretation, and presentation of results (if applicable).
9. Giving guidance on writing the report's different chapters and communicating the standard expected. (As mentioned earlier)
10. Advising the preparation of the oral presentation and/or poster.

Plagiarism

A Major Project must be the student’s work and must not contain any plagiarized material. Use of plagiarized material will be treated as a disciplinary offence, and that project report will be disqualified from the evaluation.

A PROJECT REPORT ON

“[Title of the Project]”

A major project report submitted in partial fulfilment of the requirements for the award of the Degree of Bachelor of Technology

In

Computer Science and Engineering

Submitted by

[Full Name of the student][Reg. Number]

Under the supervision of

[Supervisior Name]

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
GANDHI ENGINEERING COLLEGE, BHUBANESWAR
Gandhi Vihar, Madanpur, Bhubaneswar-752054 2019-2023

ACKNOWLEDGEMENT

Our sincere thanks to **Dr Dushmanta Kumar Padhi**, Professor and Head of the Department of Computer Science & Engineering, Gandhi Engineering College (GEC), Bhubaneswar, for his encouragement and valuable suggestions during the period of our Project work.

No words would suffice to express my regards and gratitude to **[Supervisor Name]**, Department of Computer Science & Engineering, for his inspiring guidance and constant encouragement, immense support and help during the project work.

Place:_____ Name[Full Name]

Date_____ Reg Number

Certificate

This is to certify that the work in the Project entitled **[Project Titile]** by **[Student Name]**, bearing **[Reg.No.]**, is a record of an original research work carried out under my supervision and guidance in fulfilment of the requirements for the award of the degree of Doctor of Philosophy in Computer Science & Engineering. Neither this project nor any part has been submitted for any degree or academic award elsewhere.

To the best of my knowledge, **[Student Name]** bears a good moral character and decent behaviour.

[Name of the Supervisor]

Designation of the Supervisor,

Department of Computer Science & Engineering,

Gandhi Engineering Collage,

Bhubaneswar