

**FORMAT FOR PREPARATION OF MINOR PROJECT (I) REPORT
FOR**

B.TECH. (CSE) V SEM

No of copies --- 1 copy (in spiral binding) per group for submission

All projects must be uploaded on GitHub

1. ARRANGEMENT OF CONTENTS:

The sequence in which the project report material should be arranged and bound is as follows:

1. Cover Page & Title Page
2. Certificate (For College)
3. Certificate (For External Exam)
4. Abstract
5. Table of Contents
6. List of Tables
7. List of Figures
8. Topics
9. Appendices
10. References

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

2. PAGE DIMENSION AND BINDING SPECIFICATIONS:

The dimension of the project report should be in A4 size (Use only **A4 size Bond Papers**). The project report should be bound using flexible cover of the thick (Sky Blue for IT and CS) paper. The cover should be **printed in black letters** and the text for printing should be identical.. Between each topic use **butter papers** of A4 size.

3. PREPARATION FORMAT:

3.1 Cover Page & Title Page – A specimen copy of the Cover page & Title page of the project report are given in **Page No 4 and 5 respectively**.

3.2 Certificate (For College & For External Exam) – The Certificate shall be in double line spacing using Font Style Times New Roman and Font Size 14, as per the format in **Page No. 7 and 8**.

The certificate for College shall carry the guide's, H.O.D. and Director's signature and shall be followed by the respective names. The certificate for External Exam shall carry the Internal and External Examiner's signature and shall be followed by the respective names.

- 3.3 Abstract** – Abstract should be one page synopsis of the project report typed double line spacing, Font Style Times New Roman and Font Size 14. (**See page no 6**)
- 3.4 Table of Contents** – The table of contents should list all material following it as well as any material which precedes it. The title page and Certificates will not find a place among the items listed in the Table of Contents but the page numbers of which are in lower case Roman letters. One and a half spacing should be adopted for typing the matter under this head. A specimen copy of the Table of Contents of the project report is given in **Page No 9**.
- 3.5 List of Tables** – 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.
- 3.6 List of Figures** – The list should use exactly the same captions as they appear below the figures in the text. One and a half spacing should be adopted for typing the matter under this head.
- 3.7 List of Symbols, Abbreviations and Nomenclature** (*optional*) – One and a half spacing should be adopted or typing the matter under this head. Standard symbols, abbreviations etc. should be used.
- 3.8 Topics** – The topic may be broadly divided into 3 parts (i) Introduction, (ii) Topics developing the main theme of the project work (iii) and Conclusion.

The main text will be divided into several topics and each topic may be further divided into several divisions and sub-divisions.

- ❖ Each topic should be given an appropriate title.
- ❖ Tables and figures in a topic should be placed in the immediate vicinity of the reference where they are cited.
- ❖ 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.
- ❖ Table of Contents of the project report is given in **Page No 10 (for structural approach) and Page No 12 (for OO approach)**

3.9 Appendices – Appendices are provided to give supplementary information.

- Appendices should be numbered using Arabic numerals, e.g. Appendix 1, Appendix 2, etc.
- Appendices, Tables and References appearing in appendices should be numbered and referred to at appropriate places just as in the case of topics.
- Appendices shall carry the title of the work reported and the same title shall be made in the contents page also.

- 3.10 List of References** –The listing of references 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 first author (**Prefer IEEE format**). The name of the author/authors should be immediately followed by the year and other details. A typical illustrative list given below relates to the citation example quoted above.

REFERENCES

1. Aripnammal, S. and Natarajan, S. (1994) ‘Transport Phenomena of Sm Sel – X Asx’, Pramana – Journal of Physics Vol.42, No.1, pp.421-425.
2. Barnard, R.W. and Kellogg, C. (1980) ‘Applications of Convolution Operators to Problems in Univalent Function Theory’, Michigan Math. J., Vol.27, pp.81–94.

- 3.11 Where ever student name appears, names and enrollment numbers of all members in the project group should be written. Even if the project report copy is for single group member all names should be written. All copies should be identical in every sense.**

4. TYPING INSTRUCTIONS:

The impression on the typed copies should be black in color.

One and a half spacing should be used for typing the general text. The general text shall be typed in the Font style ‘Times New Roman’ and Font size 12. Headings shall be typed in the Font style “Times New Roman’ and Font size 14. For major headings like topic name, use Font size 16.

Use the **spiral binding** for file submission

5. ** PAGE NUMBERS:

Page numbers should be included at bottom right of each page after the Table of Content page.

* * * * *

TITLE OF PROJECT REPORT

<1.5 line spacing>



*A project report submitted to
Rajiv Gandhi Proudyogiki Vishwavidhyalaya, Bhopal
in partial fulfillment for the award of
the degree of
Bachelor of Technology
in
Computer Science & Engineering*

<1.5 line spacing><Italic>

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

SUSHILA DEVI BANSAL COLLEGE OF TECHNOLOGY
INDORE- 453331
<1.5 line spacing>
Jul-Dec 2024

TITLE OF PROJECT REPORT

<1.5 line spacing>



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PROJECT GUIDE

<Prof. Name of the faculty>

SUBMITTED BY

<Student name & enr no.>

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

SUSHILA DEVI BANSAL COLLEGE OF TECHNOLOGY

INDORE- 453331

<1.5 line spacing>

Jul-Dec 2024

ACKNOWLEDGEMENT

<1.5 line spacing>

STUDENTS NAME with EnrNo

SUSHILA DEVI BANSAL COLLEGE OF TECHNOLOGY INDORE, 453331



CERTIFICATE

This is to certify that **STUDENTS NAME (ENROLLMENT NOS.)** have completed their project work, titled “**TITLE OF THE PROJECT**” as per the syllabus and have submitted a satisfactory report on this project as a part of fulfillment towards the degree of “**BACHELOR OF TECHNOLOGY**” (Computer Science & Engineering) from **RAJIV GANDHI PROUDYOGIKI VISHWAVIDHYALAYA, BHOPAL.**

<<Signature of the Head of the Department>>

<<Signature of the project guide>>

HEAD OF THE DEPARTMENT

PROJECT GUIDE

<<Signature of the Director of the college>>
DIRECTOR

SUSHILA DEVI BANSAL COLLEGE OF TECHNOLOGY INDORE, 453331



CERTIFICATE

This is to certify that <<all>>**STUDENTS NAME (ENROLLMENT NOS.)** have completed their project work, titled “**TITLE OF THE PROJECT**” as per the syllabus and have submitted a satisfactory report on this project as a part of fulfillment towards the degree of “**BACHELOR OF TECHNOLOGY**” (Computer Science & Engineering) from **RAJIV GANDHI PROUDYOGIKI VISHWAVIDHYALAYA, BHOPAL.**

<<Signature of the Internal Examiner>>

INTERNAL EXAMINER

<<Signature of the External Examiner>>

EXTERNAL EXAMINER

*****Any one of the following format shall be used***
<Topics for structural methodology>

(A typical specimen of table of contents)

TABLE OF CONTENTS		
CHAPTER	TITLE	PAGE NO.
	ABSTRACT	i
	LIST OF TABLES	ii
	LIST OF FIGURES	iii
	LIST OF SYMBOLS	iv
1.	Introduction	1
1.1.	Purpose	1
1.2.	Scope	2
1.3.	Problem in existing system	2
2.	System Requirement Analysis	
2.1	Introduction	
2.1.1	Purpose	
2.1.2	Document Conventions	
2.1.3	Intended Audience and Reading Suggestions	
2.1.4	Product Scope	
2.2	Overall Description	
2.2.1	Product Perspective	
2.2.2	Product Functions	
2.2.3	User Classes and Characteristics	
2.2.4	Operating Environment	
2.2.5	Design and Implementation Constraints	
2.2.6	User Documentation	
2.2.7	Assumptions and Dependencies	
2.3	External Interface Requirements	
2.3.1	User Interfaces	
2.3.2	Hardware Interfaces	
2.3.3	Software Interfaces	
2.3.4	Communications Interfaces	

2.4 Functional Requirement

- 2.4.1 Functional Requirement 1
- 2.4.2 Functional Requirement 2 (and so on)

2.5 Nonfunctional Requirements

- 2.5.1 Performance Requirements
- 2.5.2 Safety Requirements
- 2.5.3 Security Requirements
- 2.5.4 Software Quality Attributes

2.6 Project Plan

- 2.6.1 Team Members
- 2.6.2 Division of Work
- 2.6.3 Time Schedule

3. Analysis

- 3.1. Methodology Used (*If Structural*)
- 3.2. Use Case diagram (*Also include use case specifications*)
- 3.3. ER Model
- 3.4. DFD
- 3.5. Process Specification
- 3.6. CFD
- 3.7. STD

4. Design

- 4.1. Architectural Design
 - 4.1.1. System Architecture Diagram
 - 4.1.2. Description of Architectural Design
- 4.2. Database Design
 - 4.2.1. Data Dictionary
 - 4.2.2. Normalization
- 4.3. Component Design
 - 4.3.1. Flow Chart
- 4.4. Interface Design
 - 4.4.1. Screenshots

5. Implementation

- 5.1 Language and database system used for the implementation
- 5.2 Features of language and database used for the project
- 5.3 Description of third-party tools used (If any)

6. Testing (*Theory of testing is not required. Only write how u have tested the system*)

6.1 White Box Testing <<*with Test Cases and results using Basis Path Testing Method*>>

6.2 Black Box Testing <<*with Test Cases and results using Interface Testing Method*>>

7. Future Scope and Limitations.

8. Conclusion

9. Reference <<*include references of the project in IEEE format*>>

***include page no against each topic mentioned above in table of content*

<Topics for object oriented methodology>

(A typical specimen of table of contents)

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1.4.	Statement of Problem	3
2.	System Requirement Analysis	
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2.1.1	Purpose	
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2.3	External Interface Requirements	
2.3.1	User Interfaces	
2.3.2	Hardware Interfaces	
2.3.3	Software Interfaces	
2.3.4	Communications Interfaces	
2.4	Functional Requirement	

- 2.4.1 System Feature 1
- 2.4.2 System Feature 2 (and so on)

2.5 Nonfunctional Requirements

- 2.5.1 Performance Requirements
- 2.5.2 Safety Requirements
- 2.5.3 Security Requirements
- 2.5.4 Software Quality Attributes

2.6 Project Plan

- 2.6.1 Team Members
- 2.6.2 Division of Work
- 2.6.3 Time Schedule

3. Analysis

- 3.1 Methodology Used (*If Object Oriented*)
- 3.2 Use Case Diagrams (*Also include use case specifications*)
- 3.3 Activity Diagram
- 3.4 Sequence Diagram
- 3.5 Class Diagram
 - 3.5.1. Identified Classes
 - 3.5.2. Identified Attributes
 - 3.5.3. Identified Methods
 - 3.5.4. Identified Relationships

4. Design

- 4.1 Architectural Design
 - 4.1.1. System Architecture Diagram
 - 4.1.2. Description Of Architectural Design
- 4.2 Database Design
 - 4.2.1. Data Dictionary
 - 4.2.2. Normalization
- 4.3 Component Design
 - 4.3.1. Packages, Component Diagrams and Deployment Diagram
- 4.4 Interface Design
 - 4.4.1. Screenshots

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8. Conclusion

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***include page no against each topic mentioned above in table of content*