**GUIDELINES**

**PAPER: Use A4 (210mm X 297mm) SIZE Paper.**

**MARGINS: Margins for pages including the regular text should be as below:**

**Left : 1.5 Inches**

**Right : 1.0 Inch**

**Top : 1.0 Inch**

**Bottom: 1.0 Inch**

**CONTENTS:** Following should be the order of contents for the report. This order should be strictly maintained.

1. **Cover Page**
2. **First Page**
3. **Candidate’s Declaration**
4. **College Certificate**
5. **Acknowledgement**
6. **Table of Contents (Format given at the end)**

**Abstract …………………………………………………………………………... i**

**List of Figures ………………………………………………….………………...**

**List of Tables ………………………………………………………………….... ..**

**Abbreviations …………………………………………………………………... ..**

**Notations ………………………………………………….………………......... .**

**(1 to 10) Chapters (See The Details ) ……………………………………..1**

**Appendices ……………………………………………………………………….**

**References …………………………………………………………………………..**

**Experience(Description attached herewith) ……………………………………..**

## A

## Project Report

## on

# PROJECT TITLE

# BTech-IT, Sem VI

Prepared By:

Student Name (IT-RollNo)

Student Name (IT-RollNo)

Guided By:

Prof. (Dr.) H. B. Prajapati

Dept. of Information Technology



##### Department of Information Technology

**Faculty of technology,**

**Dharmsinh Desai University**

**College road, Nadiad- 387001**

**April, 2021**

**CANDIDATE’S DECLARATION**

I/We declare that pre-final semester report entitled

“\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_” is my /our own work conducted under the supervision of the guide \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

I/We further declare that to the best of my/our knowledge the report for B.Tech. VI semester does not contain part of the work which has been submitted either in this or any other university without proper citation.

Candidate’s Signature

Candidate’s Name

Student ID: \_\_\_\_\_

Candidate’s Signature

Candidate’s Name

Student ID: \_\_\_\_\_

## DHARMSINH DESAI UNIVERSITY

## NADIAD-387001, GUJARAT



## CERTIFICATE

### This is to certify that the project carried out in the subject of System Design Practice, entitled “ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_”and recorded in this report is a bonafide report of work of

### 1) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Roll No. \_\_\_\_\_\_\_\_ ID No: \_\_\_\_\_\_\_

**2)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Roll No. \_\_\_\_\_\_\_\_ ID No: \_\_\_\_\_\_\_**

### of Department of Information Technology, semester VI . He/She/They was/were involved in Project work during academic year 2020 -2021.

Prof. (Dr.) H. B. Prajapati

(Project Guide),

Department of Information Technology,

Faculty of Technology,

Dharmsinh Desai University, Nadiad

Date:

Prof. (Dr.) V. K. Dabhi

Head , Department of Information Technology,

Faculty of Technology,

Dharmsinh Desai University, Nadiad

## Date:

## ACKNOWLEDGEMENT

<<Acknowledgement should be prepared by own wordings showing gratitude towards department.>>

1. **Name of the student 1**
2. **Name of the student 2**

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* 1. **02**

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**APPENDICES…………………………………………………………………….**

**REFERENCES……………………………………………………………………**

**DETAILS OF CHAPTERS**

1. Introduction
   1. Project Details: Broad specifications of the work entrusted to you.
   2. Purpose
   3. Scope
   4. Objective (Scope – what it can do and can’t do)
   5. Technology and Literature Review
2. Project Management
   1. Feasibility Study

2.1.1 Technical feasibility

2.1.2 Time schedule feasibility

2.1.3 Operational feasibility

2.1.4 Implementation feasibility

* 1. Project Planning
     1. Project Development Approach and Justification
     2. Project Plan
     3. Milestones and Deliverables
     4. Roles and Responsibilities
     5. Group Dependencies
  2. Project Scheduling

Project Scheduling chart

3.0 System Requirements Study

3.1 Study of Current System

3.2 Problems and Weaknesses of Current System

3.3 User Characteristics (Type of users who is dealing with the system)

3.4 Hardware and Software Requirements (minimum requirements to run your system)

3.5 Constraints

3.3.1 Regulatory Policies

3.3.2 Hardware Limitations

3.3.3 Interfaces to Other Applications

3.3.4 Parallel Operations

3.3.5 Higher Order Language Requirements

3.3.6 Reliability Requirements

3.3.7 Criticality of the Application

3.3.8 Safety and Security Consideration

3.6 Assumptions and Dependencies

4.0 System Analysis

4.1 Requirements of New System (SRS)

4.3.1 User Requirements

* + 1. System Requirements
  1. Features Of New System

4.3 Navigation Chart

* 1. Class Diagram (Analysis level, without considering impl. environment)
  2. System Activity(Use case and/or scenario diagram)
  3. Sequence Diagram (Analysis level, without considering impl. Environment)
  4. Data Modeling
     1. Data Dictionary
     2. ER Diagram

1. System Design

#### NOTE : If your criteria does not match with these two design then refer various CASE Tools for your application and find suitable design. Do not blindly select these designs. Do find appropriate Design Style suitable to your project work.

**For OO Approach (If you are following OO Design)**

* 1. System Architecture Design
     1. Class Diagram (Design level with considering impl. Environment MVC based)
     2. Sequence Diagrams (Design level with considering impl. Environment MVC based)
     3. Component Diagram
     4. Deployment Diagram
  2. Database Design/Data Structure Design
     1. Table and Relationship
     2. Logical Description Of Data
  3. Input/Output and Interface Design
     1. State Transition/UML Diagram
     2. Samples Of Forms, Reports and Interface

1. Implementation Planning
   1. Implementation Environment (Single vs Multiuser, GUI vs Non GUI)
   2. Program/Modules Specification
   3. Coding Standards
2. Testing
   1. Testing Plan
   2. Testing Strategy
   3. Testing Methods
   4. Test Cases
      1. Purpose
      2. Required Input
      3. Expected Result
3. User Manual (Screen shots with description)
4. Limitation and Future Enhancement
5. Conclusion and Discussion
   1. Conclusions and Future Enhancement
   2. Discussion
      1. Self Analysis of Project Viabilities
      2. Problem Encountered and Possible Solutions
      3. Summary of Project work

**FOLLOWING MUST BE STRICTLY FOLLOWED**

TOP-RIGHT CORNER :contains the chapter heading

BOTTOM-LEFT CORNER : contains “ DDU(Faculty of Tech., Dept. of IT)”.

BOTTOM- RIGHT CORNER : contains the page number

**NUMBERING**

All pages in the report except the cover pages and dedication page must be numbered. All the page numbers should be located at the BOTTOM RIGHT of the page.

The page numbering starting from candidate’s declaration up to the beginning of the chapters should be numbered in small roman letters, i.e. i, ii, …

The page numbering starting from the beginning of Chapter 1 up to the end of the report, should be numbered in Arabic numerals, i.e. 1,2, 3,….

**PREPARATION OF CHAPTERS**

**Color:**  All the text including Tables should be Black prints. However, Graphs and Figures can have color prints.

**Font :**

**Chapter Headings** : Times New Roman 16pts, bold print all capitals

**Section Headings :** Times New Roman 14 pts, bold print all capitals

**Subsection Headings :** Times New Roman 12 pts, bold print leading capitals (only first letter in each word should be capital

**Regular Text :** Times New Roman 12 pts, normal prints

**Special Text :** Times New Roman Italics 12 pts (for foot notes, symbols, quotes, Mathematical notations….)

**SPACING/ALIGNMENT**

Use Single spacing between lines of regular text

Use double spacing between :

1. Paragraphs
2. Chapter title and section Heading
3. Section heading and paragraphs

Use double spacing between :

1. Table Title and Table
2. Figure Title and Figure

Use single spacing between text corresponding to bullets, listing and quotes in the main body of text.

All paragraphs in the report are to be fully justified from the first line to the last line and should start from left without any hyphenation/indent. Text corresponding to bullets, listings and quotes in the main body of text should be indented.

**SECTION/SUBSECTION NUMBERING**

Section numbering should be left justified using bold print with Arabic numerals and decimals.

Section numbering: <Chapter.Section number><3 blanks> Section heading

Example : 1.1, 2.1

Subsection numbering: <Chapter.Subsectionnumber>

Example : 1.2.1

**EQUATIONS/FORMULAS**

Numbering for equation if necessary, should be done in the following format:

(Chapter number. Section number. Equation serial number)

Example:

Y= mx + b (3.1.1)

**FIGURES:**

Figures should follow immediately after/on immediate next page after they are referred to for the first time in the text. Figure headings should be given at the bottom of the figure. All the figures in landscape format must be placed in such a way that their top portions are to the left side of the page. However, numbering should be at the bottom of the report for landscape page (similar to the next page). All figures are to be central aligned on the page.

Format for Figure Heading:

Fig. <blank> Chapter number. Serial number <3 blanks> Figure title (center aligned, leading caps)

Example:

Fig 6.13 Typical Component Event

**DIAGRAMS:**

Diagrams larger than A4 size are not encouraged. If larger sizes are absolutely necessary, they should be folded to A4 size. Each drawing is to be numbered and referred to as Figures only. Diagram title should be similar to figure titles.

**TABLES:**

Tables should follow immediately after/on immediate next page after they are referred to for the first time in the text. Table heading should be given at the top of the table. All the tables in landscape format must be placed in such a way that their top portions are to the left side of the page. However, numbering should be at the bottom of the report for landscape page. All tables are to be central aligned on the page.

Format for Table heading:

Table <blank> Chapter number. Serial number <3 blanks> Table Title (Left aligned, leading caps)

Example:

Table 6.13 Comparison of methods

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  |  |  |

**REFERENCES**

All the references cited inside the text should be documented under the heading “**REFERENCES”.** All the references must be informative

Example:

Single Author:

Aloysius J. A. (1998) *Data Analysis for Management*, Prentice Hall of India Pvt. Ltd., New Delhi.

**Note : Arrange references in alphabetical order and number them in that order.**

**SOME COMMON GUIDELINES**

1. Table should work like a bridge between the two implementation step or provide comparison of alternatives available
2. All the diagrams must be complete and must follow all the rules( for example, ER Diagrams must show attributes of the entity and relationship between the entities)
3. No line should contain more than 8 words

**NUMBER OF COPIES :**

* All copies SPIRAL BOUND.
* **In each group,needed to have one personal copy of each individual candidate and One for the project Guide.**
* **Project Guide’s Copy should include CD (stick on the back cover) containing** 
  + **Source Code,**
  + **Executable/Installation Package**
  + **Document Soft copy**
  + **Any material/e-book/manual used for developing/understanding the concept, tool, etc.**

**Ex. Assume that there are 3 students in a group.**

**No. of copies will be : 4**

**One personal copy of each individual candidate (=3)**

**One for the project Guide (1).**

**Total =3+1 = 4.**