**Senior Design Project Report**

After completion of the project work, every group of students will submit one group wise project report and one individual copy, which should contain the following:

1. Cover Page (as per Annexure 1)
2. Certificate by the Guide (as per Annexure 2)
3. Acknowledgment (The candidate may thank all those who helped in the execution of the project.) (as per Annexure 3)
4. Declaration of students (as per Annexure 4)
5. Report Approval (as per Annexure 5)
6. Abstract (It should be in one page and include the purpose of the study; the methodology used and a summary of the major findings.)
7. Table of Contents (as per Annexure 6): Detailed description of the project (This should be split in various chapters/sections with each chapter/section describing a project activity in totality). This portion of report should contain all relevant diagrams, tables, flow charts, software programme, print outs, photographs etc., which are properly labeled.
8. Conclusion & Recommendations
9. Appendices

* Appendices are provided to give supplementary information, which if included in the main text may serve as a distraction and cloud the central theme.
* Appendices should be numbered using Arabic numerals, e.g. Appendix 1, Appendix 2.
* Appendices shall carry the title of the work reported and the same title shall be listed in the Contents page also.
* Similarity report of the project report below 16 % duly measured using ‘Turnitin’ similarity measure software (available at central library).

1. References (The listing of references should be typed 2 spaces below the heading “REFERENCES” in alphabetical order in single spacing left – justified. It should be numbered consecutively (in square [ ] brackets, throughout the text and should be collected together in the reference list at the end of the report. The references should be numbered in the order they are used in the text. The name of the author/authors should be immediately followed by the year and other details). Typical examples of the references are given below:

**REFERENCES**

[1]. Ariponnammal, S. and Natarajan, S. (1994) ‘Transport Phonomena of SmSel – X Asx’, Pramana – *Journal of Physics* Vol.42, No.1, pp.421-425.

In addition, following points should be complied with:-

1. Page numbering
2. Numbering of appendices, figures and tables and their reference in the text.
3. For general layout of report, any standard text book layout may be referred.

**Report Specifications:**

1. Project Report’s Cover Type: Hard-bound
2. Color of Project Report Cover: Blue only with white alphabets (as per Annexure 1)
3. Number of Copies: 2 per group (Internal/External exam + Individual or Student’s copy)
4. Paper Size (orientation): A4 (portrait)
5. Margins: 1” top / bottom / right and 1.5” left
6. Font Type: Times New Roman
7. Font Size: 16 bold for chapter names, 14 bold for headings and 12 for normal text
8. Line Spacing: 1.5 throughout
9. Page Numbering: Bottom center of page in the format – Page 1 of N

**NOTE:** Project report must not contain any description of the following except only a relevant and short mention – technology or platform or OS or tools used or any language details. It must be more focused on project work carried out and its implementation details without including any source code.

**Details of CD:**

CD of the project work is required to be pasted on the back cover of the project report in clear packet, which should include the following folders and contents:

1. **Presentation** (should include a PPT about project in not more than 20-30 slides)
2. **Documentation** (should include a word file of the project report)
3. **Source Code** (full source code of the project with libraries used)
4. **Program** (final running copy of the project executable)
5. **Support** (any third party tools used or runtime environment setups that are required to run the project)
6. **Help** (user manual on how to run the project)

**NOTE:** CD must be checked for any harmful viruses before submission. Source Code and Program folders may be combined into single folder **Project** if it’s a web project etc.

**ANNEXURE-1**

**(A typical Specimen of Cover Page & Title Page)**

**TITLE OF PROJECT**

<Font Size 22><BOLD><Centralized>

**A Project Report**

<Font Size 14>><BOLD><Centralized>

***Submitted by:***

**<Font Size 12><Italic>><BOLD><Centralized>**

**NAME OF THE STUDENT(S) (<University Registration Number>)**

**<Font Size 16>><BOLD><Centralized>**

in partial fulfillment for the award of the degree

of

<Font Size 14><1.5 line spacing><Italic><BOLD><Centralized>

**BACHELOR OF TECHONOLOGY**

<Font Size 16>><BOLD><Centralized>

**IN**

**COMPUTER SCIENCE AND ENGINEERING**



**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**Faculty of Engineering and Technology, Institute of Technical Education and Research**

**SIKSHA ‘O’ ANUSANDHAN (DEEMED TO BE) UNIVERSITY**

**Bhubaneswar, Odisha, India**

**(May 2018)**

**ANNEXURE-2**

**CERTIFICATE**

This is to certify that the project report titled “——————————————–” being submitted by (Name of students and Section) to the Institute of Technical Education and Research, Siksha ‘O’ Anusandhan (Deemed to be) University, Bhubaneswar for the partial fulfillment for the degree of Bachelor of Technology in Computer Science and Information Technology is a record of original confide work carried out by them under my/our supervision and guidance. The project work, in my/our opinion, has reached the requisite standard fulfilling the requirements for the degree of Bachelor of Technology.

The results contained in this thesis have not been submitted in part or full to any other University

or Institute for the award of any degree or diploma.

(Name of Guide)

Department of Computer Science and Engineering

Faculty of Engineering and Technology;

Institute of Technical Education and Research;

Siksha ‘O’ Anusandhan (Deemed to be) University

**ANNEXURE-3**

**ACKNOWLEDGEMENT**

(In this page, express your gratitude to anybody or any Institute for using its facility in making your project happen.)

**Place: Signature of students**

**Date:**

**ANNEXURE-4**

**DECLARATION**

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

Signature of Students with Registration Numbers

Date: ————–

**ANNEXURE-5**

**REPORT APPROVAL**

This project report entitled ”—————————-” by (Name of students) is approved for the degree of Bachelor of Technology in Computer Science and Engineering.

**Examiners**

————————————————–

————————————————–

**ANNEXURE-6**

**(A typical specimen of table of contents)**

\* includes full content from Project Synopsis as per the format given separately.

**Table of Contents**

|  |  |  |
| --- | --- | --- |
|  | Title Page | i |
|  | Declaration of the Student | ii |
|  | Certificate of the Guide | iii |
|  | Abstract | iv |
|  | Acknowledgement | v |
|  | List of Figures | vi |
|  | List of Tables (optional) | vii |
|  | Timeline / Gantt Chart | viii |
|  |  |  |
| **1.** | **INTRODUCTION** | **1** |
|  | * 1. Problem Definition   2. Project Overview/Specifications   3. Hardware Specification   4. Software Specification   1.3.1  1.3.2  … | 1  2  3  4  4 |
|  |  |  |
| **2.** | **LITERATURE SURVEY** | **5** |
|  | 2.1 Existing System  2.2 Proposed System  2.3 Feasibility Study | 5  6  7 |
|  |  |  |
| **3.** | **SYSTEM ANALYSIS & DESIGN** |  |
|  | 3.1 Requirement Specification  3.2 Flowcharts / UML Diagrams / ERDs/  3.3 Design and Test Steps / Criteria  3.3 Algorithms and Pseudo Code  3.3.1  3.3.2  3.4 Testing Process  … | 9  10  12  16  18  19  22  27 |
|  |  |  |
| **4.** | **RESULTS / OUTPUTS** | **40** |
| **5.** | **CONCLUSIONS / RECOMMENDATIONS** | **47** |
| **6.** | **REFERENCES** | **49** |
| **7.** | **APPENDICES** | **50** |
| **8.** | **SIMILARITY REPORT** | **51** |