**PROJECT TITLE**

*A Graduate Project Report submitted to Manipal University in partial fulfilment of the requirement for the award of the degree of*

**BACHELOR OF TECHNOLOGY**

**In**

**Electronics and Communication Engineering**

*Submitted by*

**Student Name**

Reg. No:

*Under the guidance of*

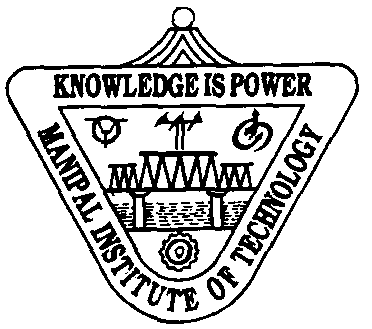
**SUPERVISOR NAME DEPARTMENT GUIDE NAME**

**Designation & Designation**

**Company Name**



**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**



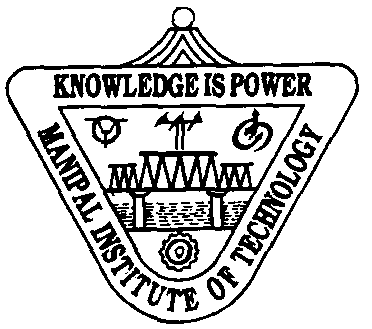
**MANIPAL INSTITUTE OF TECHNOLOGY**

(A Constituent College of Manipal University)

MANIPAL – 576104, KARNATAKA, INDIA

**MAY 2016**

**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**



**MANIPAL INSTITUTE OF TECHNOLOGY**

(A Constituent College of Manipal University)

MANIPAL – 576 104 (KARNATAKA), INDIA

Manipal

< Date >

**CERTIFICATE**

This is to certify that the project titled **PROJECT TITLE** is a record of the bonafide work done by **STUDENT NAME** (*Reg. No. <Register No>*) submitted in partial fulfilment of the requirements for the award of the Degree of Bachelor of Engineering (BE) in **ELECTRONICS AND COMMUNICATION ENGINEERING** of Manipal Institute of Technology Manipal, Karnataka, (A Constituent College of Manipal University), during the academic year 2015-2016.

|  |  |
| --- | --- |
| **Dept Guide Name**  *Project Guide* | **Prof. Dr. ----------------------**  *HOD, E & C.*  *M.I.T, MANIPAL* |

(*On company letter head)*

<Place>

<Date>

**CERTIFICATE**

This is to certify that the project entitled **PROJECT TITLE** was carried out by **STUDENT NAME** (*Reg. No. <Register No>*) at **ORGANISATION NAME, CITY NAME** under my guidance during **Starting Month, year** to **Ending Month, year**.

**Supervisor Name**

Designation,

Organisation Name, City

**ACKNOWLEDGMENTS**

This section should contain the acknowledgements due to the Director, Dept HOD, Project supervisor, company personnel, department guide, Laboratory Incharge (where the work was carried out) and faculty members whose assistance was sought during the project work.

**ABSTRACT**

The abstract is brief synopsis of the project work and should be written in 4 paragraphs. The first paragraph should introduce the area of the topic and give importance of the work / topic in the present day scenario, hence leading to the objective of the project work. The second paragraph should briefly discuss the methodology that was adopted in the work. The third paragraph should discuss briefly the important results that were obtained and its significance. The fourth paragraph should discuss the important conclusion(s) of the project work. If you have used some software tools/packages or hardware/systems, indicate them in the last line. (The abstract should fit in one page only)

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**CHAPTER 1**

**INTRODUCTION**

This chapter should include

* Introduction (1 paragraph brief of what is going to be discussed in this chapter)
* Introduction to the area of work (general discussion)
* Brief present day scenario with regard to the work area
* Motivation to do the project work
* *Shortcomings in the previous work / reference paper*
* *Brief importance of the work in the present context*
* *Uniqueness of the methodology that will be adopted*
* *Significance of the possible end result*
* Objective of the work
* *Main work objective*
* *Secondary objective if any*
* Target Specifications
* *Importance of the end result*
* Project Work schedule
* Organization of the project report (chapter wise)

**CHAPTER 2**

**BACKGROUND THEORY**

This chapter should include

* Introduction (1 paragraph brief of what is going to be discussed in this chapter)
* Introduction to the project title (specific discussion)
* Literature review
* *Present state / recent developments in the work area*
* *Brief background theory*
* *Literature Survey*
* Summarized outcome of the literature review
* Theoretical discussions
* General analysis
* Mathematical derivations
* Conclusions

**CHAPTER 3**

**METHODOLOGY**

This chapter should include

* Introduction (1 paragraph brief of what is going to be discussed in this chapter)
* Methodology
* Detailed methodology
* Assumptions made
* Circuit layout / one-line / block diagrams
* Component specifications
* Justification for component selection
* Tools used
* Detailed specification / listing of the various components, measuring devices, software tool boxes, reference data sheets etc
* Preliminary result analysis if any
* Conclusions

**CHAPTER 4**

**RESULT ANALYSIS**

This chapter should include

* Introduction (1 paragraph brief of what is going to be discussed in this chapter)
* Result analysis
* Graphical / tabular form
* Explanation for the graphical / tabulated results
* Significance of the result obtained
* Any deviations from the expected results & its justification
* Conclusions

**CHAPTER 5**

**CONCLUSION AND FUTURE SCOPE OF WORK**

This chapter should include

* Brief summary of the work
* Problem statement / objective, in brief
* Work methodology adopted, in brief
* Conclusions
* General conclusions
* Significance of the results obtained
* Future scope of work.

(At least three paragraphs, one for each suggestion has to be written.)

**REFERENCES**

***Journal / Conference Papers***

1. Name 1 and Name 2, “Paper Title”, Full Journal Name, volume no, publication year, page numbers
2. Name 1 and Name 2, “Paper Title”, Proceedings of the International / National Conference on \_\_\_, Institution, Country, Date, page numbers

***Reference / Hand Books***

1. Name 1, “Book Title”, Publication Name, Edition, ISBN number

***Web***

1. Topic 1, website name (do not include long URL’s)

**ANNEXURES (optional)**

Annexure to include

* Product Data sheets
* Design drawings
* Standard diagrams
* Lengthy codes / algorithms etc

PROJECT DETAILS

|  |  |  |  |
| --- | --- | --- | --- |
| *Student Details* | | | |
| **Student Name** |  | | |
| Register Number |  | Section / Roll No |  |
| Email Address |  | Phone No (M) |  |
| **Student Name** |  | | |
| Register Number |  | Section / Roll No |  |
| Email Address |  | Phone No (M) |  |
|  | | | |
| *Project Details* | | | |
| **Project Title** |  | | |
| Project Duration |  | Date of reporting |  |
|  |  | | |
| *Organization Details* | | | |
| **Organization Name** |  | | |
| Full postal address with pin code |  | | |
| Website address |  | | |
|  |  | | |
| *Supervisor Details* | | | |
| **Supervisor Name** |  | | |
| Designation |  | | |
| Full contact address with pin code |  | | |
| Email address |  | Phone No (M) |  |
|  |  | | |
| *Internal Guide Details* | | | |
| **Faculty Name** |  | | |
| Full contact address with pin code | Dept of E & C Engg, Manipal Institute of Technology, Manipal – 576 104 (Karnataka State), INDIA | | |
| Email address |  | | |

**General Guidelines (Delete this page when making the report submission)**

* Project Report to be minimum 40 pages. Reports less than 40 pages will be rejected
* Project report to be maximum 50 - 60 pages (preferred)
* Paper Size: A4; Left = Right = Top = Bottom Margins = 1”
* Page Numbering Position: Bottom with right justified and continuous numbering from the Introduction Chapter
* Use Times New Roman Font with Normal Style, paragraph justified and 1.25 line spacing
* Paragraph Heading: Times New Roman Font, Bold, Font Size 14; Paragraph Matter: Times New Roman Font, Normal, Font Size 12;
* Sub-paragraphs be appropriately numbered as in 1.1, 1.2, 1.3 etc; Sub-paragraph Heading: Times New Roman Font, Italics, Font Size 12; Sub-paragraph Matter: Times New Roman Font, Normal, Font Size 12;
* Figure captions below Figure with chapter wise numbering
* Tables captions above Table with chapter wise numbering
* All references must be quoted in ascending order (follow IEEE format for referencing)
* Project Details page must be the last page in the project report
* Only Soft bound reports will be accepted. The outer cover of the report will be **PURE WHITE** with a 170 GSM paper.

* **Arrangement of contents**

[1] Cover page (same as inner page)

[2] Inner page

[3] Dedication (Optional)

[4] Certificate

[5] Certificate on company letter head

[6] Acknowledgement

[7] Abstract

[8] List of Tables

[9] List of Figures

[10] Table of contents

[11] Chapters 1, 2, 3, 4, 5

[12] References (follow IEEE format)

[13] Annexures

[14] Project Details (Last page of the report)

* The above guidelines should be used only as a help guide and is more or less a standard way of report writing
* Report formatting should not be disturbed in any form
* **Project students are requested to discuss with their department guides regarding the contents of the project report**
* Hard Copies to be prepared: 3 (1 individual copy, 1 each for guide & dept.)
* Soft copy (both word and pdf format) to be submitted in PG LAB,with project name as filename.