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**MOTHER TERESA INSTITUTE OF SCIENCE & TECHNOLOGY**

**SATHUPALLY, KHAMMAM DIST, TELANGANA**

**Guidelines to prepare B.Tech Project Documentation**

**Font :** 1. Chapter names - 16 TNR (bold) all caps

 2. Headings - 14 TNR (bold) all caps

 3. Subheadings - 14 TNR (bold) Title case

 4. Sub-Subheadings - 12 TNR (bold) Title case

 5. Body of Paper - 12 TNR

 6. Text in Diagrams - 12 TNR (all lower case)

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 (write figure name below the figure Ex: Fig 1.1,1.2…(figure 1.1 belongs to 1st chapter 1st figure)

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**TNR:** Times New Roman

**Spacing :** 1. **2** Line Spacing between heading and body text

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 (Excluding title page, Certificate page, Acknowledgement page)

 2. Body pages 1, 2, 3…..

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 (Separate for each Annexure)

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## **PREPARATION OF DOCUMENTATION**

The sequence in which the Project Report should be arranged as follows and should be hard bounded.

Title page (color print)

College Certificate (color print)

Project Certificate (color print)

Institute Vision & Mission

Department Vision & Mission

PO Statements, PEO’s, PSO’s

Project CO-PO Statements

Project CO-PO Mapping

Declaration

Acknowledgement

Contents

List of figures

List of tables

List of symbols & abbreviations

Abstract

Chapter-1: Introduction

Chapter-2: Literature Survey

Chapter-3: Proposed Methodology

Chapter-4: Result Analysis and Discussion

 Chapter-5: Conclusion

Chapter-6: Future Scope of the Project

1. Appendices [Continuation of lower-case Roman Numerals from (A)]

References

Biodata

TOTAL NUMBER OF PAGES: **40 to 60.**

Book Should be a proper Binded copies: **08 (Batch copies-03, Individual copies—05).**

**PROJECT REPORT**

On

# “[CONTINUOUSLY VARIABLE TRANSMISSION (CVT)](http://www.123seminarsonly.com/ME/Continuously-variable-transmission-CVT.html)”

Submitted For Partial Fulfillment & Award of

# BACHELOR OF TECHNOLOGY

**In**

# Electronics & Communication Engineering

By

[Name(s) of the Student]

Under the Guidance of

[Name of the Project Guide]

#### Designation

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**DEPARTMENT OF XXXXX ENGINEERING**

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Qualification Head of the Department

 Qualification

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Mother Teresa Institute of Science & Technology

#### ACKNOWLEDGEMENT

We are grateful to numerous individuals who contributed to the preparation of our Project Report.

We wish to express our sincere and heart full gratitude to our Project guide **Name of the Guide, M.Tech** Designation, **Name of the Branch,** who encouraged us to taking up this project in sync with Industry needs.

We thank and deep sense of gratitude to **Name of the HOD Qualification.** Designation, BRANCH NAME, for their constant encouragement and cooperation during the Project work.

We would like to thank and express our gratitude to **Dr. Sk. Jakeer Hussain, M.Tech, Ph.D,** Dean Engineering, Mother Teresa Institute of Science & Technology for the support and encouragement during the completion of the project.

We express our gratitude and utmost regards to **Dr. C. Hari Krishna M.E, Ph.D, M.I.E.E.E, MISTE** Principal, Mother Teresa Institute of Science & Technology for their constant support, encouragement and providing necessary permissions during the completion of the project.

We also thank the entire faculty members and fellow classmates who directly or indirectly helped us to complete this project.

#### Name of the Student Roll no

#### Name of the Student Roll no

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#### Name of the Student Roll no

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**INSTITUTE VISION**

To be a state-of-the-art centre for learning with a social commitment transforming the youth into dynamic professionals.

**INSTITUTE MISSION**

**IM1:** Foster unmatched excellence in professional education

**IM2**: Provide quality eco-system to inspire learning aligned to needs.

**IM3**: Inculcate ethical and moral values to groom good citizens.

**IM4**: Involve in activities with team spirit and collaborations towards nation building.

**DEPARTMENT VISION**

To be recognized as a contributor of Mechanical Engineering proficiency and enable entrepreneurship, innovation, and values.

**DEPARTMENT MISSION**

**DM1**: To train Stake holders on modeling and analysis software’s for developing their computational capabilities as well as promoting studies and research works.

**DM2**: Create awareness about the needs of mechanical industries through alumni and industry-institute interactions.

**DM3**: To impart strong ethical values, lifelong learning and serve the society.

**PROGRAMME EDUCATIONAL OBJECTIVES (PEOs)**

**PEO 1:** Succeed in Mechanical engineering field and to pursue research endeavors with a solid foundation in basic sciences, engineering fundamentals and analytical skills.

**PEO 2:** Exhibit industry readiness with the state of the art in Mechanical and allied engineering for successful career.

**PEO 3:** Acquire lifelong learning skills, professional ethics, good communication capabilities and leadership qualities.

**PROGRAM SPECIFIC OUTCOMES (PSOs)**

 **PSO1**: Identify, analyze and build manufacturing and thermal systems using fundamental principles and techniques.

**PSO2**: Use modeling and analysis software tools such as SOLIDWORKS, CFD, and ANSYS.

**PSO3**: Exhibit managerial and technical skills to work effectively in teams with ethics

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**DEPARTMENT OF BRANCH NAME**

**Course:** Project Stage II **AY:** 2023-2024

**Class:** IV B. Tech II Sem

|  |  |
| --- | --- |
| **CO#** | **CO Statement** |
| **CO1** | Demonstrate the knowledge and skills of a professional engineer to make a project. |
| **CO2** | Identify latest information related to the project from various sources to analyse the project. |
| **CO3** | Apply knowledge and demonstrate to manage project in multidisciplinary areas. Develop a prototype/model of the project by distribution of tasks among the team |
| **CO4** | Develop a team for carrying the project and perform documentation effectively. Create a good report of the project as per the guidelines and present to the panel of experts |
| **CO5** | Create abstract for given project by identifying the requirements and prospective solution. Analyse the results of the designed module or circuit. |
| **CO6** | Design the necessary module of the selected project as per specifications, Demonstrate the project working with the help of Presentation. |

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**PROGRAM OUTCOMES**

**Engineering Graduates will be able to:**

1. **Engineering knowledge**: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
2. **Problem analysis**: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
3. **Design/development of solutions**: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
4. **Conduct investigations of complex problems**: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
5. **Modern tool usage**: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
6. **The engineer and society**: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
7. **Environment and sustainability**: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
8. **Ethics**: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
9. **Individual and team work**: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
10. **Communication**: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
11. **Project management and finance**: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one’s own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
12. **Life-long learning**: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

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|  |  |
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| Project Title: |  |
| Guide(s): |  |
| Student Name(s): |  |
| Student Roll No(s): |  |
| Academic Year: | **2023-24** |

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| --- | --- | --- |
| **Name of Course from which Principles are applied in this project** | **Description of the application, page number in the report** | **Attained PO** |
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| PO | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 | PSO3 |
| Mapping |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

**Name of the Guide, Qualification**

Designation

 Department of BRANCH NAME

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**LIST OF ABBREVIATIONS AND SYMBOLS**

VLSI : Very Large Scale Integration

FPGA : Field Programmable Logic Controller DSP : Digital Signal Processing

x[n] : Filter Input Signal

y[n] : Filter Output Signal

δ[n] : Delta Function

h[n] : Filter Impulse Response

H[n] : Transfer Function

\* : Convolution Operator

###

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