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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

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**In**

# Electronics & Communication Engineering

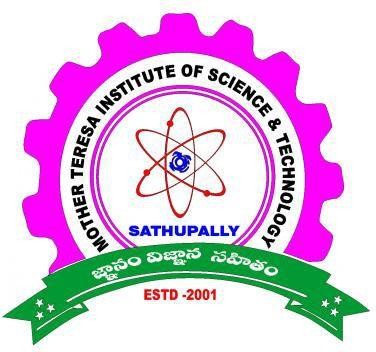
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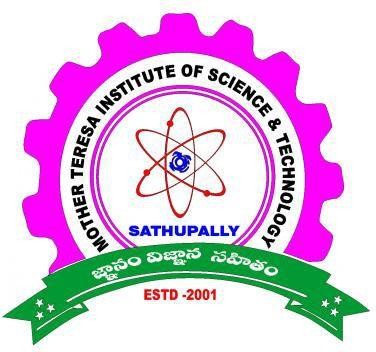
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#### ACKNOWLEDGEMENT

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.

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

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

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

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

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**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.

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**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)**

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

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| **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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1. **Engineering knowledge**: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
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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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| Student Name(s): |  |
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| 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 |
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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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