

2.6.1 Programme and course outcomes for all Programmes offered by the institution are stated and displayed on website and communicated to teachers and students.

Thamirabharani Engineering College has a well-defined learning outcomes based on the course outcomes provided by the affiliating body Anna University, Chennai.

Our college has contributed in exposing students to emerging technologies to explore new subjects and deepen their understanding of difficult concepts and instilling entrepreneurial attitude in them. Our institute dedicates itself in empowering students through outcome based teaching and learning process.

POs, PSO and PEO for all Programmes

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PRINCIPAL
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Thatchanallur, Tirunelveli - 627 556.



THAMIRABHARANI ENGINEERING COLLEGE

Chathirampudukulam, Chidambaranagar-Vepemkulam Road

Thatchanallur, Tirunelveli-627 358.

DEPARTMENT OF CIVIL ENGINEERING

TEC VISION:

- To be a center of excellence in Engineering, exposing emerging technologies and instilling Entrepreneurial Attitude.

TEC MISSION:

- Empower students through effective teaching and learning process for the development of critical thinking, effective communication and creativity.
- Develop industry readiness by encouraging learning by doing, exposing current innovations and providing adequate facilities for Research.
- Create the entrepreneurship desire by developing individual skills, professional ethics, moral values and societal concern.

DEPARTMENT VISION:

- To become a center of excellence that brings out civil engineers with high technical competencies, collaborative research activities and entrepreneurial attitudes with societal concern.

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DEPARTMENT MISSION:

- Providing a comprehensive outcome based engineering education and a state of art infrastructure to empower students for the development of their critical thinking, effective communication and societal leadership.
- Creating an environment conducive for the students to develop industry readiness in the field of Civil Engineering by exposing current innovations and learning through collaborations with Academia, Industry and Research Organizations.
- Facilitating avenues to make Civil Engineering Department a learning and agile center to nurture the spirit of innovation, creativity and entrepreneurship.

| | |
|---------------------|---|
| Core Values: | Excellence, Integrity, Societal Concern, Innovation, Collegiality, Respect for all. |
|---------------------|---|

PROGRAM OUTCOMES (POs)

| | | |
|-------------|---|--|
| PO 1 | Engineering knowledge | Apply the knowledge of mathematics, science, engineering fundamentals, and civil engineering specialization to the solution of complex engineering problems. |
| PO 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. |
| PO 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. |
| PO 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. |


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| | | |
|--------------|---------------------------------------|--|
| PO 5 | Modern tool usage | Create, select, and apply appropriate techniques, resources, and modern engineering and computer aided tools including prediction and modeling to complex engineering activities with an understanding of the limitations. |
| PO 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. |
| PO 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. |
| PO 8 | Ethics | Apply ethical principles and commit to professional ethics and responsibilities and norms of the civil engineering practice. |
| PO 9 | Individual and team work | Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings. |
| PO 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. |
| PO 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. |
| PO 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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PROGRAM EDUCATIONAL OUTCOMES (PEO)

After few years of graduation our Civil Engineering graduates are expected to

| | |
|--------------|---|
| PEO 1 | Demonstrate sound technical core competency in the field of civil Engineering meeting current and future challenges. (Core Competency) |
| PEO 2 | Engage in life-long learning for continuous professional development, further study in graduate school and active involvement in research. (Life Long Learning) |
| PEO 3 | Exhibit effective communication skills, productive citizens in the service of humanity, excellent professionalism in team work and exuberant ethics in their profession. (Professional Skills and Ethical Values) |

PROGRAM SPECIFIC OUTCOMES (PSO)

| | |
|--------------|---|
| PSO 1 | The graduates of this programme will be able to meet the needs of public in the design and execution of quality construction work considering the health, safety, cultural, societal and environmental factors. |
| PSO 2 | The graduates will analyze and design regular and complex structures having acquired the knowledge of building analysis software packages. |

ESTABLISH CONSISTENCY OF PEOS WITH MISSION OF THE DEPARTMENT

| | M 1 | M 2 | M 3 |
|----------------|--|--|---|
| MISSION | Providing a comprehensive outcome based engineering education and a state of art infrastructure to empower students for the development of their critical thinking, effective communication and societal leadership. | Creating an environment conducive for the students to develop industry readiness in the field of Civil Engineering by exposing current innovations and learning through collaborations with Academia, Industry and Research Organizations. | Facilitating avenues to make Civil Engineering Department a learning and agile center to nurture the spirit of innovation, creativity and entrepreneurship among the students and the faculty members |
| PEO | | | |

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| | | | | |
|--------------|---|---|---|---|
| PEO 1 | Demonstrate sound technical core competency in the field of civil Engineering meeting current and future challenges. (Core Competency) | 3 | 3 | 2 |
| PEO 2 | Engage in life-long learning for continuous professional development, further study in graduate school and active involvement in research. (Life Long Learning) | 2 | 2 | 1 |
| PEO 3 | Exhibit effective communication skills, productive citizens in the service of humanity, excellent professionalism in team work and exuberant ethics in their profession. (Professional Skills and Ethical Values) | 2 | 1 | 3 |

Note for Level of Mapping: 3 - Strong, 2 - Medium, 1 – Weak



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JUSTIFICATION OF CO-RELATION PARAMETERS OF PEO WITH MISSION OF THE DEPARTMENT

Justification of co-relation parameters of PEO with Mission 1 of the department

| PEOs | | Level of Mapping | Justification of Mapping with Mission (M1) |
|--------------|---|------------------|--|
| PEO 1 | Demonstrate sound technical core competency in the field of civil Engineering meeting current and future challenges. (Core Competency) | 3 | The department has well qualified faculty members constantly updating themselves by attending FDP's and Industrial Trainings; they impart knowledge among student community through outcome based education with innovative teaching learning pedagogy through the concept of learning by doing. |
| PEO 2 | Engage in life-long learning for continuous professional development, further study in graduate school and active involvement in research. (Life Long Learning) | 2 | Department is equipped with advanced laboratories, regular higher education training programmes and relevant skill development mechanisms inculcating passion for lifelong learning and research in the minds of students. |
| PEO 3 | Exhibit effective communication skills, productive citizens in the service of humanity, excellent professionalism in team work and exuberant ethics in their profession. (Professional Skills and Ethical Values) | 2 | The department regularly organizes co-curricular, extra-curricular and technical activities to empower students with good communication, critical thinking, ethical, professional and entrepreneurial skills. |



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JUSTIFICATION OF CO-RELATION PARAMETERS OF PEO WITH MISSION OF THE DEPARTMENT

Justification of co-relation parameters of PEO with Mission 2 of the department

| PEOs | | Level of Mapping | Justification of Mapping with Mission (M2) |
|--------------|---|------------------|--|
| | | | Creating an environment conducive for the students to develop industry readiness in the field of Civil Engineering by exposing current innovations and learning through collaborations with Academia, Industry and Research Organizations. |
| PEO 1 | Demonstrate sound technical core competency in the field of civil Engineering meeting current and future challenges. (Core Competency) | 3 | Department organizes industrial visits, internships and implant trainings to equip students with current industrial practices and to meet future demands. |
| PEO 2 | Engage in life-long learning for continuous professional development, further study in graduate school and active involvement in research. (Life Long Learning) | 2 | Students exhibit problem solving skills through mini and major projects using modern tools enhancing professional development and exposing them towards active involvement in research. |
| PEO 3 | Exhibit effective communication skills, productive citizens in the service of humanity, excellent professionalism in team work and exuberant ethics in their profession. (Professional Skills and Ethical Values) | 1 | Industrial integrated and inter disciplinary projects to equip students with team work and problem solving capabilities for real life situations. |



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JUSTIFICATION OF CO-RELATION PARAMETERS OF PEO WITH MISSION OF THE DEPARTMENT

Justification of co-relation parameters of PEO with Mission 3 of the department

| PEOs | | Level of Mapping | Justification of Mapping with Mission (M3) |
|-------|---|------------------|---|
| | | | Facilitating avenues to make Civil Engineering department a learning and agile center to nurture the spirit of innovation, creativity and entrepreneurship among the students and the faculty members |
| PEO 1 | Demonstrate sound technical core competency in the field of civil Engineering meeting current and future challenges. (Core Competency) | 2 | Students gain core competency in performing different laboratory courses and design tools available in the department to transfer ideas into reality. |
| PEO 2 | Engage in life-long learning for continuous professional development, further study in graduate school and active involvement in research. (Life Long Learning) | 1 | Guest lectures and workshops by technical experts of academic and industrial background to enhance their subject knowledge and keep them in track with latest technological advancements. |
| PEO 3 | Exhibit effective communication skills, productive citizens in the service of humanity, excellent professionalism in team work and exuberant ethics in their profession. (Professional Skills and Ethical Values) | 3 | Students are encouraged to exhibit strong ethics, team work, professionalism and leadership traits to excel in their total personality development and entrepreneurial desires. |



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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

TEC VISION:

- To be a center of excellence in Engineering, exposing emerging technologies and instilling Entrepreneurial Attitude.

TEC MISSION:

- Empower students through effective teaching and learning process for the development of critical thinking, effective communication and creativity.
- Develop industry readiness by encouraging learning by doing, exposing current innovations and providing adequate facilities for Research.
- Create the entrepreneurship desire by developing individual skills, professional ethics, moral values and societal concern.

DEPARTMENT VISION:

- To create the most conducive environment for quality academic, by preparing the students for a globalized technological advancement and to a promote Entrepreneurial culture.

DEPARTMENT MISSION

- Providing a comprehensive outcome based engineering education and a state of art infrastructure to empower students for the development of their subject proficiency, critical thinking, effective communication and creativity.

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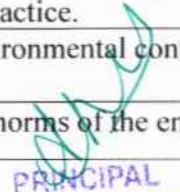
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- To achieve industry readiness by imparting in-depth knowledge, hands on experience and research provisions.
- To inculcate professional behaviour, strong ethical values and leadership abilities in the young minds so as to instil societal concern and entrepreneurship desire.

| | | | | |
|---------------------|------------------|-------------|---------------|-------------------------|
| Core Values: | | | | |
| Quality assurance. | Positive impact. | Advancement | Collaboration | Diversity and Outreach. |

PROGRAM OUTCOMES (POs)

| | | |
|-------------|---|--|
| PO 1 | Engineering knowledge | Apply the knowledge of mathematics, science, engineering fundamentals and an engineering specialization to the solution of complex engineering problems. |
| PO 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. |
| PO 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. |
| PO 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. |
| PO 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. |
| PO 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. |
| PO 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. |
| PO 8 | Ethics | Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering |


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| | | |
|--------------|---------------------------------------|--|
| | | practice. |
| PO 9 | Individual and team work | Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings. |
| PO 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. |
| PO 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. |
| PO 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. |

PROGRAM EDUCATIONAL OUTCOMES (PEO)

After few years of graduation our Computer Science and Engineering graduates are expected to

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|-------------|--|
| PEO1 | Exhibit understanding of the field of computer science and Engineering including scientific principles, analysis techniques, and design methodologies. (Core Competency) |
| PEO2 | Ability to participate in life-long learning and professional development to adapt to rapidly changing work environment and active involvement in research. (Life Long Learning) |
| PEO3 | Show skills to communicate effectively, work collaboratively and exhibit high levels of professionalism and ethical responsibility. (Professional Skills and Ethical Values) |

PROGRAM SPECIFIC OUTCOMES (PSO)

| | |
|-------------|---|
| PSO1 | Reveal fundamental proficiency in computer science and engineering by analyzing, designing and developing computing solutions. |
| PSO2 | Display strength in software engineering principles to design quality software for scientific, business applications and innovative solutions to existing/novel problems. |


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ESTABLISH CONSISTENCY OF PEOS WITH MISSION OF THE DEPARTMENT

| MISSION | | M 1 | M 2 | M 3 |
|---------|--|-----|--|---|
| | | PEO | Providing a comprehensive outcome based engineering education and a state of art infrastructure to empower students for the development of their subject proficiency, critical thinking, effective communication and creativity. | To achieve industry readiness by imparting in-depth knowledge, hands on experience and research provisions. |
| PEO 1 | Exhibit understanding of the field of computer science and Engineering including scientific principles, analysis techniques, and design methodologies. (Core Competency) | 3 | 2 | 1 |
| PEO 2 | Ability to participate in life-long learning and professional development to adapt to rapidly changing work environment and active involvement in research. (Life Long Learning) | 1 | 3 | 2 |
| PEO 3 | Show skills to communicate effectively, work collaboratively and exhibit high levels of professionalism and ethical responsibility. (Professional Skills and Ethical Values) | 1 | 1 | 3 |

Note for Level of Mapping: 3 – Strong, 2 – Medium, 1 - Weak



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JUSTIFICATION OF CO-RELATION PARAMETERS OF PEO WITH MISSION OF THE DEPARTMENT

Justification of co-relation parameters of PEO with Mission 1 of the department

| PEOs | | Level of Mapping | Justification of Mapping with Mission (M1) |
|--------------|--|------------------|--|
| | | | Providing a comprehensive outcome based engineering education and a state of art infrastructure to empower students for the development of their subject proficiency, critical thinking, effective communication and creativity. |
| PEO 1 | Exhibit understanding of the field of computer science and Engineering including scientific principles, analysis techniques, and design methodologies. (Core Competency) | 3 | Outcome based Education and supporting infrastructure will aid in creating an environment in which students' ability to understand and learn the basics of their program and applying those knowledge will thrive. |
| PEO 2 | Ability to participate in life-long learning and professional development to adapt to rapidly changing work environment and active involvement in research. (Life Long Learning) | 1 | Outcome based Education and supporting infrastructure will strengthen the students basic understanding and knowledge of their program which will provide a strong platform for them to research and learn new ideas. |
| PEO 3 | Show skills to communicate effectively, work collaboratively and exhibit high levels of professionalism and ethical responsibility. (Professional Skills and Ethical Values) | 1 | Strong subject understanding will provide the confidence and knowledge to communicate effectively. |


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Justification of co-relation parameters of PEO with Mission 2 of the department

| PEOs | | Level of Mapping | Justification of Mapping with Mission (M2) |
|--------------|--|------------------|---|
| | | | To achieve industry readiness by imparting in-depth knowledge, hands on experience and research provisions. |
| PEO 1 | Exhibit understanding of the field of computer science and Engineering including scientific principles, analysis techniques, and design methodologies. (Core Competency) | 2 | Learning by doing through utilizing various available infrastructures will help students to understand the core program concepts. |
| PEO 2 | Ability to participate in life-long learning and professional development to adapt to rapidly changing work environment and active involvement in research. (Life Long Learning) | 3 | Practicing recent trends during project developments and involvement in implementation of knowledge and researching platforms will help students to reach the industry readiness. |
| PEO 3 | Show skills to communicate effectively, work collaboratively and exhibit high levels of professionalism and ethical responsibility. (Professional Skills and Ethical Values) | 1 | Practical sessions, project works and research paper presentations will enhance the work ethic and create cohesive ability. |



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Justification of co-relation parameters of PEO with Mission 3 of the department

| PEOs | | Level of Mapping | Justification of Mapping with Mission (M3) |
|--------------|--|------------------|--|
| | | | To inculcate professional behaviour, strong ethical values and leadership abilities in the young minds so as to instil societal concern and entrepreneurship desire. |
| PEO 1 | Exhibit understanding of the field of computer science and Engineering including scientific principles, analysis techniques, and design methodologies. (Core Competency) | 1 | Learning professional courses will mould students to be good learners and lead them to utilize their energy effectively for the education. |
| PEO 2 | Ability to participate in life-long learning and professional development to adapt to rapidly changing work environment and active involvement in research. (Life Long Learning) | 2 | Developing professional behavior will directly aid students to match the requirements of rapidly changing work environment. |
| PEO 3 | Show skills to communicate effectively, work collaboratively and exhibit high levels of professionalism and ethical responsibility. (Professional Skills and Ethical Values) | 3 | Learning ethical courses, entrepreneurial initiative and effective participation in social activities will help the student to exhibit high levels of professionalism and ethical responsibility |



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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

TEC VISION:

- To be a center of excellence in Engineering, exposing emerging technologies and instilling Entrepreneurial Attitude.

TEC MISSION:

- Empower students through effective teaching and learning process for the development of critical thinking, effective communication and creativity.
- Develop industry readiness by encouraging learning by doing, exposing current innovations and providing adequate facilities for Research.
- Create the entrepreneurship desire by developing individual skills, professional ethics, moral values and societal concern.

DEPARTMENT VISION

- To be a center of excellence in Technical Education and Research by adopting innovative teaching and learning methodologies in the field of Electrical and Electronics Engineering to meet the needs of the society.

DEPARTMENT MISSION

- Providing adequate infrastructure and environment to the student community.
- Adopting effective teaching learning methodologies and value added courses to impart strong fundamental knowledge.
- Enhancing the opportunities to work on real world problems and develop sustainable ethical solutions.
- Encouraging collaborative and multidisciplinary research activities to meet the societal needs.

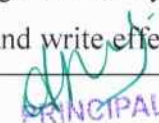
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|---------------------|----------|-------------------------|-----------------------|
| Core Values: | Teamwork | Research and Innovation | Social Responsibility |
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PROGRAM OUTCOMES (POs)

| | | |
|-------|--|---|
| PO 1 | Engineering Knowledge | Apply the knowledge of mathematics, science, engineering fundamentals, and engg. specialization to the solution of complex engineering problems. |
| PO 2 | Problem Analysis | Identify, formulate, research literature, and analyze engineering problems to arrive at substantiated conclusions using first principles of mathematics, natural, and engineering sciences. |
| PO 3 | Design/Development of Solutions | Design solutions for complex engineering problems and design system components, processes to meet the specifications with consideration for the public health and safety, and the cultural, societal, and environmental considerations. |
| PO 4 | Conduct Investigations of Complex Problems | Use research-based knowledge including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions. |
| PO 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. |
| PO 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. |
| PO 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. |
| PO 8 | Ethics | Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice. |
| PO 9 | Individual and Team Work | Function effectively as an individual, and as a member or leader in teams, and in multidisciplinary settings. |
| PO 10 | Communication | Communicate effectively with the engineering community and with society at large. Be able to comprehend and write effective |


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| | | reports documentation. Make effective presentations, and give and receive clear instructions. |
| PO 11 | Project Management and Finance | Demonstrate knowledge and understanding of engineering and management principles and apply these to one's own work, as a member and leader in a team. Manage projects in multidisciplinary environments. |
| PO 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. |

PROGRAM EDUCATIONAL OUTCOMES (PEO)

After few years of graduation our Electrical and Electronics Engineering graduates are expected to

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|--------------|--|
| PEO 1 | Graduate demonstrate their professional knowledge and skills to provide solutions to Electrical and Electronics Engineering problems and allied areas (Core Competency). |
| PEO 2 | Graduates able to engage in a diversified teamwork to execute projects in Electrical and Electronics Engineering problems and allied areas (Individual and Team Work). |
| PEO 3 | Graduates able to engage in lifelong learning for professional development and research (Life Long Learning) |

PROGRAM SPECIFIC OUTCOMES (PSO)

| | |
|--------------|--|
| PSO 1 | Apply the fundamental knowledge of mathematics, science, electrical and electronics engineering to analyze and solve the complex problems in electrical, electronics and allied interdisciplinary areas. |
| PSO 2 | Able to analyze, design power electronics interface for renewable energy system to meet the energy demand. |


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ESTABLISH CONSISTENCY OF PEOS WITH MISSION OF THE DEPARTMENT

| MISSION PEO | | M 1 | M 2 | M 3 | M 4 |
|----------------------------------|--|--|--|---|--|
| | | To provide adequate infrastructure and environment to students and faculties to meet the requirements of Electrical and Electronics Engineering. | To adopt effective teaching learning methodologies and value added courses to create Electrical and Electronics Engineers with a strong fundamental knowledge. | To provide opportunities for students to work on real world problems and develop sustainable ethical solutions. | To enhance the collaborative and multidisciplinary research activities for benefit of the society. |
| PEO 1 | Graduate demonstrate their professional knowledge and skills to provide solutions to Electrical and Electronics Engineering problems and allied areas (Core Competency). | 3 | 3 | 3 | 2 |
| PEO 2 | Graduates able to engage in a diversified teamwork to execute projects in Electrical and Electronics Engineering problems and allied areas (Individual and Team Work). | 3 | 3 | 3 | 2 |
| PEO 3 | Graduates able to engage in lifelong learning for professional development and research (Life Long Learning) | 3 | 2 | 2 | 2 |

Note for Level of Mapping: 3 – Strong, 2 – Medium, 1 - Weak


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JUSTIFICATION OF CO-RELATION PARAMETERS OF PEO WITH MISSION OF THE DEPARTMENT

Justification of co-relation parameters of PEO with Mission 1 of the department

| PEOs | | Level of Mapping | Justification of Mapping with Mission (M1) To provide adequate infrastructure and environment to students and faculties to meet the requirements of Electrical and Electronics Engineering. |
|--------------|--|------------------|--|
| PEO 1 | Graduate demonstrate their professional knowledge and skills to provide solutions to Electrical and Electronics Engineering problems and allied areas (Core Competency). | 3 | The department has well adequate Lab facilities to provide knowledge to the students |
| PEO 2 | Graduates able to engage in a diversified teamwork to execute projects in Electrical and Electronics Engineering problems and allied areas (Individual and Team Work). | 3 | The student can able to work in the Self-Learning Lab and Project Lab to work as a individual or a team to solve engineering problems |
| PEO 3 | Graduates able to engage in lifelong learning for professional development and research (Life Long Learning) | 3 | The value added courses are conducted regularly to update knowledge to students with latest technologies |


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Justification of co-relation parameters of PEO with Mission 2 of the department

| PEOs | | Level of Mapping | Justification of Mapping with Mission (M2) To adopt effective teaching learning methodologies and value added courses to create Electrical and Electronics Engineers with a strong fundamental knowledge. |
|--------------|--|------------------|--|
| PEO 1 | Graduate demonstrate their professional knowledge and skills to provide solutions to Electrical and Electronics Engineering problems and allied areas (Core Competency). | 3 | The department have well equipped with qualified, competent and well- trained faculty members to impart knowledge to the students by adopting modern teaching aids. |
| PEO 2 | Graduates able to engage in a diversified teamwork to execute projects in Electrical and Electronics Engineering problems and allied areas (Individual and Team Work). | 3 | The department delivers group assignment, flipped class room and seminar to students to solve engineering problems |
| PEO 3 | Graduates able to engage in lifelong learning for professional development and research (Life Long Learning) | 2 | The department conducts activity based learning through association activities. |


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Justification of co-relation parameters of PEO with Mission 3 of the department

| PEOs | | Level of Mapping | Justification of Mapping with Mission (M3) To provide opportunities for students to work on real world problems and develop sustainable ethical solutions. |
|--------------|--|------------------|---|
| PEO 1 | Graduate demonstrate their professional knowledge and skills to provide solutions to Electrical and Electronics Engineering problems and allied areas (Core Competency). | 3 | The department conducts Industrial project every semester to provide opportunities for students to work on real world problems |
| PEO 2 | Graduates able to engage in a diversified teamwork to execute projects in Electrical and Electronics Engineering problems and allied areas (Individual and Team Work). | 3 | The students can able to execute projects by the software tools to obtain sustainable ethical students |
| PEO 3 | Graduates able to engage in lifelong learning for professional development and research (Life Long Learning) | 2 | The students acquire knowledge through certificate courses conducted through department activities. |


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Justification of co-relation parameters of PEO with Mission 4 of the department

| PEOs | | Level of Mapping | Justification of Mapping with Mission (M4) To enhance the collaborative and multidisciplinary research activities for benefit of the society |
|--------------|--|------------------|---|
| PEO 1 | Graduate demonstrate their professional knowledge and skills to provide solutions to Electrical and Electronics Engineering problems and allied areas (Core Competency). | 2 | The students are motivated to participate in conference and technical competition, Hackathon |
| PEO 2 | Graduates able to engage in a diversified teamwork to execute projects in Electrical and Electronics Engineering problems and allied areas (Individual and Team Work). | 2 | The students can able to do mini project and project as a team to solve problems |
| PEO 3 | Graduates able to engage in lifelong learning for professional development and research (Life Long Learning) | 2 | The students can able to analyze the problems by software tools |



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

TEC VISION:

- To be a center of excellence in Engineering, exposing emerging technologies and instilling Entrepreneurial Attitude.

TEC MISSION:

- Empower students through effective teaching and learning process for the development of critical thinking, effective communication and creativity.
- Develop industry readiness by encouraging learning by doing, exposing current innovations and providing adequate facilities for Research.
- Create the entrepreneurship desire by developing individual skills, professional ethics, moral values and societal concern.

DEPARTMENT VISION

- To achieve excellence in Technical Education, Research and Entrepreneurial attitudes in the stream of Electronics and Communication Engineering.

DEPARTMENT MISSION

- Providing a comprehensive outcome based engineering education and a state of art infrastructure to empower students for the development of their critical thinking, effective communication and creativity.
- Creating an environment conducive for the students to develop industry readiness in the field of Electronics and Communication Engineering by exposing current innovations and learning through collaborations with Academia, Industry and Research Organizations.

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- Facilitating avenues to create the entrepreneurship desires among Electronics and Communication students by developing individual skills, professional ethics, moral values and societal concern.

| | | | |
|---------------------|-------------------------|------------------|---------------------------|
| Core Values: | Excellence as benchmark | Societal Concern | Creativity and Innovation |
| | Collaborative Team work | | Ethics in real life |

PROGRAM OUTCOMES (POs)

| | | |
|-------------|---|--|
| PO 1 | Engineering knowledge | Apply the knowledge of mathematics, science, engineering fundamentals, and an electronics engineering specialization to the solution of complex engineering problems. |
| PO 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. |
| PO 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. |
| PO 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. |
| PO 5 | Modern tool usage | Create, select, and apply appropriate techniques, resources, and modern engineering and computer aided tools including prediction and modeling to complex engineering activities with an understanding of the limitations. |
| PO 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. |


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| | | |
|--------------|---------------------------------------|--|
| PO 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. |
| PO 8 | Ethics | Apply ethical principles and commit to professional ethics and responsibilities and norms of the electronics and communication engineering practice. |
| PO 9 | Individual and team work | Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings. |
| PO 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. |
| PO 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. |
| PO 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. |

PROGRAM EDUCATIONAL OUTCOMES (PEO)

After few years of graduation our Electronics and Communication graduates are expected to

| | |
|--------------|---|
| PEO 1 | Demonstrate sound technical competency in Electronics and Communication Engineering and allied fields. (Core Competency) |
| PEO 2 | Engage in life-long learning for continuous professional development and active involvement in research. (Life Long Learning) |
| PEO 3 | Exhibit effective communication skills, excellent professionalism in team work and exuberant ethics in their profession with entrepreneurship desires. (Professional Skills and Ethical Values) |


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PROGRAM SPECIFIC OUTCOMES (PSO)

| | |
|--------------|---|
| PSO 1 | Demonstrate sound technical competency to design and analyze diversified Electronics systems. |
| PSO 2 | Display solid technical composure to design and analyze varied Communication based systems. |



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ESTABLISH CONSISTENCY OF PEOS WITH MISSION OF THE DEPARTMENT

| MISSION | | M 1 | M 2 | M 3 |
|----------------|---|---|--|---|
| | | Providing a comprehensive outcome based engineering education and a state of art infrastructure to empower students for the development of their critical thinking, effective communication and creativity. | Creating an environment conducive for the students to develop industry readiness in the field of Electronics and Communication Engineering by exposing current innovations and learning through collaborations with Academia, Industry and Research Organizations. | Facilitating avenues to create the entrepreneurship desires among Electronics and Communication students by developing individual skills, professional ethics, moral values and societal concern. |
| PEO 1 | Demonstrate sound technical competency in Electronics and Communication Engineering and allied fields. (Core Competency) | 3 | 2 | 1 |
| PEO 2 | Engage in life-long learning for continuous professional development and active involvement in research. (Life Long Learning) | 2 | 3 | 1 |
| PEO 3 | Exhibit effective communication skills, excellent professionalism in team work and exuberant ethics in their profession with entrepreneurship desires with entrepreneurship desires. (Professional Skills and Ethical Values) | 2 | 1 | 3 |

Note for Level of Mapping: 3 – Strong, 2 – Medium, 1 - Weak


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JUSTIFICATION OF CO-RELATION PARAMETERS OF PEO WITH MISSION OF THE DEPARTMENT

Justification of co-relation parameters of PEO with Mission 1 of the department

| PEOs | | Level of Mapping | Justification of Mapping with Mission (M1) |
|--------------|---|------------------|--|
| | | | Providing a comprehensive outcome based engineering education and a state of art infrastructure to empower students for the development of their critical thinking, effective communication and creativity. |
| PEO 1 | Demonstrate sound technical competency in Electronics and Communication Engineering and allied fields. (Core Competency) | 3 | The department has well qualified faculty members to impart knowledge among student community through outcome based education with innovative teaching learning pedagogy through the concept of learning by doing. |
| PEO 2 | Engage in life-long learning for continuous professional development and active involvement in research. (Life Long Learning) | 2 | Department is equipped with relevant skill development mechanisms inculcating passion for lifelong learning and research. |
| PEO 3 | Exhibit effective communication skills, excellent professionalism in team work and exuberant ethics in their profession with entrepreneurship desires with entrepreneurship desires. (Professional Skills and Ethical Values) | 2 | The department regularly organizes co-curricular, extra-curricular and technical activities to empower students with good communication, ethical, professional and entrepreneurial skills. |


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JUSTIFICATION OF CO-RELATION PARAMETERS OF PEO WITH MISSION OF THE DEPARTMENT

Justification of co-relation parameters of PEO with Mission 2 of the department

| PEOs | | Level of Mapping | Justification of Mapping with Mission (M2) Creating an environment conducive for the students to develop industry readiness in the field of Electronics and Communication Engineering by exposing current innovations and learning through collaborations with Academia, Industry and Research Organizations. |
|--------------|---|------------------|--|
| PEO 1 | Demonstrate sound technical competency in Electronics and Communication Engineering and allied fields. (Core Competency) | 2 | Department organizes industrial visits, internships and implant trainings to equip students with industrial readiness. |
| PEO 2 | Engage in life-long learning for continuous professional development and active involvement in research. (Life Long Learning) | 3 | Students exhibit problem solving skills through mini and major projects using modern tools enhancing professional development. |
| PEO 3 | Exhibit effective communication skills, excellent professionalism in team work and exuberant ethics in their profession with entrepreneurship desires with entrepreneurship desires. (Professional Skills and Ethical Values) | 1 | Industrial integrated projects to equip them with team work and problem solving capabilities for real life situations. |


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JUSTIFICATION OF CO-RELATION PARAMETERS OF PEO WITH MISSION OF THE DEPARTMENT

Justification of co-relation parameters of PEO with Mission 3 of the department

| PEOs | | Level of Mapping | Justification of Mapping with Mission (M3) |
|--------------|---|------------------|---|
| | | | Facilitating avenues to create the entrepreneurship desires among Electronics and Communication students by developing individual skills, professional ethics, moral values and societal concern. |
| PEO 1 | Demonstrate sound technical competency in Electronics and Communication Engineering and allied fields. (Core Competency) | 1 | Students gain competency in different design tools available in the department to transfer ideas into reality. |
| PEO 2 | Engage in life-long learning for continuous professional development and active involvement in research. (Life Long Learning) | 1 | Guest lectures and workshops by technical experts to enhance their subject knowledge and keep them abreast with latest technological advancements. |
| PEO 3 | Exhibit effective communication skills, excellent professionalism in team work and exuberant ethics in their profession with entrepreneurship desires. (Professional Skills and Ethical Values) | 3 | Students are encouraged to exhibit strong ethics, team work, professionalism and leadership traits to excel in their total personality development and entrepreneurial desires. |


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DEPARTMENT OF MECHANICAL ENGINEERING

TEC VISION:

- To be a center of excellence in Engineering, exposing emerging technologies and instilling Entrepreneurial Attitude.

TEC MISSION:

- Empower students through effective teaching and learning process for the development of critical thinking, effective communication and creativity.
- Develop industry readiness by encouraging learning by doing, exposing current innovations and providing adequate facilities for Research.
- Create the entrepreneurship desire by developing individual skills, professional ethics, moral values and societal concern.

DEPARTMENT VISION

To be a premier center for producing competent mechanical engineers in meeting the ever changing demands of industry and society.

DEPARTMENT MISSION

- Imparting knowledge and skills in basic and allied areas of Mechanical Engineering through innovative learner-centric approach.
- Collaborate with industries and research organizations in solving real world problems.
- Creating avenues for the students to impart entrepreneurial desires.

Core Values: Excellence as benchmark, Innovation, Collaborative Team work, Ethics in real life.

PROGRAM OUTCOMES (POs)


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| | | |
|-------|---|--|
| PO 1 | Engineering knowledge | Apply the knowledge of mathematics, science, engineering fundamentals, and engineering specialization to the solution of complex engineering problems in Mechanical Engineering |
| PO 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. |
| PO 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. |
| PO 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. |
| PO 5 | Modern tool usage | Create, select, and apply appropriate techniques, resources, and modern engineering and computer aided tools including prediction and modeling to complex engineering activities with an understanding of the limitations. |
| PO 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. |
| PO 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. |
| PO 8 | Ethics | Apply ethical principles and commit to professional ethics and responsibilities and norms of the Mechanical engineering practice. |
| PO 9 | Individual and team work | Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings. |
| PO 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. |
| PO 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. |
| PO 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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PROGRAM EDUCATIONAL OUTCOMES (PEO)

Bachelor of Mechanical Engineering curriculum is designed to impart Knowledge, Skill and Attitude on the graduates to

| | |
|--------------|---|
| PEO 1 | Have expertise in the areas of Design, Materials and Manufacturing. |
| PEO 2 | Contribute towards technological development through academic research and industrial practices. (Life Long Learning) |
| PEO 3 | Practice their profession with good communication, leadership, ethics and social responsibility. |

PROGRAM SPECIFIC OUTCOMES (PSO)

On successful completion of the Mechanical Engineering Degree programme, the Graduates shall exhibit the following:

| | |
|--------------|---|
| PSO 1 | Apply the knowledge gained in Mechanical Engineering for design and development and manufacture of engineering systems. |
| PSO 2 | Apply the knowledge acquired to investigate research oriented problems in mechanical engineering with due consideration for environmental and social impacts. |
| PSO 3 | Use the engineering analysis and data management tools for effective management of multidisciplinary projects. |



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ESTABLISH CONSISTENCY OF PEOS WITH MISSION OF THE DEPARTMENT

| MISSION | | M 1 | M 2 | M 3 |
|----------------|---|--|--|---|
| | | To impart knowledge and skills in basic and applied areas of Mechanical Engineering through innovative learner-centric approach. | To connect with industries and research organizations for gaining real-time practical knowledge. | To educate and prepare the students to excel as entrepreneur. |
| PEO | | | | |
| PEO 1 | Have expertise in the areas of Design, Materials and Manufacturing. | 1 | 1 | 2 |
| PEO 2 | Contribute towards technological development through academic research and industrial practices. (Life Long Learning) | 2 | 3 | 1 |
| PEO 3 | Practice their profession with good communication, leadership, ethics and social responsibility. | 1 | 2 | 3 |

Note for Level of Mapping: 3 – Strong, 2 – Medium, 1 - Weak


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JUSTIFICATION OF CO-RELATION PARAMETERS OF PEO WITH MISSION OF THE DEPARTMENT

Justification of co-relation parameters of PEO with Mission 1 of the department

| PEOs | | Level of Mapping | Justification of Mapping with Mission (M1) |
|-------|---|------------------|--|
| | | | To impart knowledge and skills in basic and applied areas of Mechanical Engineering through innovative learner-centric approach. |
| PEO 1 | Have expertise in the areas of Design, Materials and Manufacturing. | 1 | The department has well qualified faculty members to impart knowledge among student community through outcome based education with innovative teaching learning pedagogy through the concept of learning by doing. |
| PEO 2 | Contribute towards technological development through academic research and industrial practices. (Life Long Learning) | 1 | Department is equipped with relevant skill development mechanisms inculcating passion for lifelong learning and research. |
| PEO 3 | Practice their profession with good communication, leadership, ethics and social responsibility. | 2 | The department regularly organizes co-curricular, extra-curricular and technical activities to empower students with good communication, ethical, professional and entrepreneurial skills. |


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JUSTIFICATION OF CO-RELATION PARAMETERS OF PEO WITH MISSION OF THE DEPARTMENT

Justification of co-relation parameters of PEO with Mission 2 of the department

| PEOs | | Level of Mapping | Justification of Mapping with Mission (M2) |
|-------|---|------------------|--|
| | | | To connect with industries and research organizations for gaining real-time practical knowledge. |
| PEO 1 | Have expertise in the areas of Design, Materials and Manufacturing. | 2 | The department has well qualified faculty members to impart knowledge among student community through outcome based education with innovative teaching learning pedagogy through the concept of learning by doing. |
| PEO 2 | Contribute towards technological development through academic research and industrial practices. (Life Long Learning) | 3 | Department is equipped with relevant skill development mechanisms inculcating passion for lifelong learning and research. |
| PEO 3 | Practice their profession with good communication, leadership, ethics and social responsibility. | 1 | The department regularly organizes co-curricular, extra-curricular and technical activities to empower students with good communication, ethical, professional and entrepreneurial skills. |


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JUSTIFICATION OF CO-RELATION PARAMETERS OF PEO WITH MISSION OF THE DEPARTMENT

Justification of co-relation parameters of PEO with Mission 3 of the department

| PEOs | | Level of Mapping | Justification of Mapping with Mission (M3) |
|-------|---|------------------|---|
| PEO 1 | Have expertise in the areas of Design, Materials and Manufacturing. | 2 | To educate and prepare the students to excel as entrepreneur. The department has well qualified faculty members to impart knowledge among student community through outcome based education with innovative teaching learning pedagogy through the concept of learning by doing. |
| PEO 2 | Contribute towards technological development through academic research and industrial practices. (Life Long Learning) | 3 | Department is equipped with relevant skill development mechanisms inculcating passion for lifelong learning and research. |
| PEO 3 | Practice their profession with good communication, leadership, ethics and social responsibility. | 1 | The department regularly organizes co-curricular, extra-curricular and technical activities to empower students with good communication, ethical, professional and entrepreneurial skills. |


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