ISO 9001:2015 | AICTE-CII: GOLD Category Institute | NAAC - 'A' Grade Institute (CGPA : 3.19)

KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE

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काकतीय प्रौद्योगिकी एवं विज्ञान संस्थान, वरंगल - ५०६ ०१५ तेलंगाना, भारत

కాకతీయ సాంకేతిక విజ్ఞాన శాస్త్ర విద్యాలయం, వరంగల్ - ౫౦౬ ౦౧౫ తెలంగాణ, భారతదేశము

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DEPARTMENT OF ELECTRICAL & ELELCTRONICS ENGINEERING

SUSTAINABLE DEVELOPMENT GOALS-ELECTRICAL & ELELCTRONICS ENGINEERING

Ensure access to affordable, reliable, sustainable, and modern energy for all:

Electrical & Electronics Engineering focus on

- *Cost reduction in generation, transmission, and end-use*
- *Power system stability, resilience, and quality of supply*
- *Decarbonization of the energy sector and minimizing environmental impact*
- *Digitalization, accessibility, and moving beyond basic access*

Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation

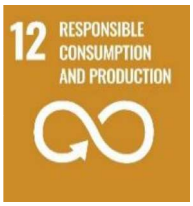
Electrical & Electronics Engineering focus on

- *Creating infrastructure that is reliable, adaptive, and withstands shocks (physical, cyber, demand)*
- *Making industrial processes more efficient, less polluting, and accessible*
- *Driving R&D in foundational and applied technologies*

Make cities and human settlements inclusive, safe, resilient and sustainable

Electrical & Electronics Engineering focus on

- *Ensuring equitable access to urban services and opportunities through technology.*
- *Using technology to enhance physical and cyber security for citizens*
- *Building adaptive capacity to withstand and recover from shocks (climate, cyber, operational).*
- *Decarbonizing urban systems and creating circular resource flows.*



Ensure sustainable consumption and production patterns

Electrical & Electronics Engineering focus on

- *Minimizing resource use, waste, and pollution in the manufacturing of electrical products and systems.*
- *Radically improving the energy and resource efficiency of products during their operational life.*
- *Designing for disassembly, reuse, refurbishment, and recycling.*

Take urgent action to combat climate change and its impacts

Electrical & Electronics Engineering focus on

- *Replacing fossil fuels with zero-carbon electricity and using electricity with maximal efficiency.*
- *Hardening infrastructure and creating adaptive systems to withstand climate-driven extremes (heatwaves, floods, storms, wildfires).*
- *Providing the tools to track emissions, model climate systems, and verify mitigation efforts.*

We are committed *to sensitizing the faculty, staff & students to the United Nations SDGs.*

The Department of Electrical & Electronics Engineering enables graduates *to apply strong* ***core*** *principles and technologies to develop* ***innovative, and sustainable solutions*** *for real-world problems in the domains of* ***agriculture, industrial automation, green energy production, smart electric grids, electric transportation, and smart energy management****.*