NANDHA ENGINEERING COLLEGE, ERODE-52

(AUTONOMOUS)

VISION OF THE INSTITUTE

To be a world class Engineering and Management Institution in leading technological and socio-economic development of the country by enhancing the global competitiveness of technical manpower and by ensuring high quality technical education through dissemination of knowledge, insights and intellectual contributions.

MISSION OF THE INSTITUTE

To provide value-based technical education and mould the character of younger generation.

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

VISION OF THE DEPARTMENT

To produce professionally competent Electrical and Electronics Engineers to meet out the national and global needs in inter/multi disciplinary domains.

MISSION OF THE DEPARTMENT

The Department of Electrical and Electronics Engineering is committed to

- Equip the students with knowledge and skills to cater to the industrial needs.
- Engineer them to develop innovative, competent and ethical qualities to contribute technical advancements.
- Enable them to become responsible citizens of the country with a willingness to serve the society.

PROGRAM EDUCATIONAL OBJECTIVES (PEOS)

PEO1. To provide fundamental knowledge to the students in Basic Sciences for the efficient practice of Engineering.

PEO2. To equip the students with the necessary subject knowledge in the design and analysis of Electrical and Electronic Systems.

PEO3. To prepare students for the modern work environment that emphasizes the need for lifelong learning so as to bring out innovative applications.

PEO4. To enrich the students with the necessary skills for prospective careers in the industry, government, pursuit of higher education and entrepreneurship.

PEO5. To enable students to communicate effectively, both individually and within teams, demonstrating ethical, respectful, and professional behavior so as to take up leadership positions in the society

PROGRAMME SPECIFIC OUTCOMES (PSOs):

PSO 1:Demonstrate knowledge and competence in the application of basic sciences, mathematics and fundamentals of electrical and electronics systems

PSO 2:Ability to explore complex engineering problems

PSO 3:Demonstrate the ability to communicate correctly, effectively work in a team and develop good personality

PSO 4: Apply appropriate techniques and modern engineering tools in core areas to engage in lifelong learning.

PROGRAMME OUTCOMES (POs):

The graduates of Electrical and Electronics Engineering will

1. Apply knowledge of mathematics, science and engineering to domain specific applications.
2. Identify, analyze and formulate Electrical and Electronics Engineering problems based on the knowledge of basic sciences and engineering.
3. Design and develop Electrical and Electronic Engineering based solutions to meet the desired requirements.
4. Investigate complex problems in the areas of power, control and energy to provide suitable solutions.
5. Use the techniques, skills and modern engineering tools necessary for real world applications within realistic constraints.
6. Apply engineering solutions in societal and global contexts.
7. Understand the impact of the solutions on the environment to ensure sustainability.
8. Understanding of professional and ethical responsibility.
9. Function as an individual and as a part of multidisciplinary team to accomplish a common goal.
10. Communicate effectively in both verbal and written forms.
11. Ability to use engineering and management principles, to manage projects and in multidisciplinary environments
12. Recognition of the need for and ability to engage in lifelong learning.