



# **GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY**

APPROVED BY AICTE, DTE & AFFILIATED TO RTM NAGPUR UNIVERSITY, NAGPUR

Dahegaon, Opp. IOC Petrol Pump, Kalmeshwar Road, Nagpur – 441501 Ph. 07118-661400

Website: [www.gniet.ac.in](http://www.gniet.ac.in) Email: [gnietnagpur@gmail.com](mailto:gnietnagpur@gmail.com)



## **Department of Electronics & Telecommunication Engineering**

### **PROGRAM EDUCATIONAL OBJECTIVES (PEO):**

- ⌚ **PEO1:** To provide the imperatives knowledge of science and engineering concepts fundamental for a Electronics professional and equip the proficiency of mathematical foundations and algorithmic principles for competent problem solving ability.
  
- ⌚ **PEO2:** To inculcate ability in creativity & design of computer support systems and impart knowledge and skills for analyze, design, test and implement various software applications
  
- ⌚ **PEO3:** To exhibit leadership capability, triggering social and economical commitment and inculcate community services and protect environment
  
- ⌚ **PEO4:** To provide an educational foundation that prepares computer professional for excellence, leadership roles along diverse career paths with encouragement to professional ethics and active participation needed for a successful career.



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## Department of Electronics & Telecommunication Engineering PROGRAM OUTCOMES (PO)

**PO-1 Engineering knowledge:** Apply the knowledge of mathematics, science, Computer Science and 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 Computer Science and Engineering.

**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 in the field of Computer Science and Engineering.

**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 Computer Science and Engineering practices.

**PO-7 Environment and sustainability:** Understand the impact of the professional Computer Science and 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 diverse teams, and in multidisciplinary settings.



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**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 Computer Science and 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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## **Department of Electronics & Telecommunication Engineering**

### **PROGRAM SPECIFIC OUTCOMES (PSO)**

- 🕒 **PSO1:** The Electronics and Telecommunication Engineering graduates are able to gain critical understanding of hardware and software tools catering to the contemporary needs of Electronics and IT industry for the development of different projects in inter-disciplinary field.
  
- 🕒 **PSO2:** The Electronics and Telecommunication Engineering graduates are able to analyze, design, develop, test and apply computational expertise, mathematical foundations and managerial skills to solve complex Engineering problems considering environmental and ethical and social issues.