G.H. RAISONI COLLEGE OF ENGINEERING
(An Autonomous Institute Under UGC Act 1956 & Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur)

DEPARTMENT OF ELECTRONICS & TELECOMMUNICATION ENGINEERING
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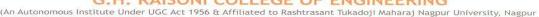
Vision of the Institute

To achieve excellent standards of quality education by keeping pace with rapidly changing technologies and to create technical manpower of

Mission of the Institute

Our efforts are dedicated to impart quality and value based education to raise satisfaction level of all stake-holders. Our strength is directed to create competent professionals. Our endeavor is to provide all possible support to promote research and development activities.

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Vision of the Department

To achieve excellent standards of quality education by keeping pace with rapidly changing technologies and to create technical manpower of global standards in electronics & telecommunication engineering with /'capabilities of accepting new challenges.

Mission of the Department

Mission of the Department is

- To create competent professionals who are trained in the design, implementation of engineering & telecommunication systems

- To contribute towards the advancement of engineering, science and technology

- To impart quality and value based education to raise satisfaction of all stake holders

- To promote research & development activities in the field of electronics & telecommunication engineering and allied areas

Programme Educational Objectives

- **PEO1**: Identify, define and solve problems in the fields of electronics & communication engineering.

- **PEO2:** Employ necessary techniques and tools for advanced engineering applications, engage themselves in research and development, and take up higher education.

- **PEO3:** Use their skills in ethical & professional manner to raise the satisfaction level of the stakeholders.

Programme Outcomes and Programme Specific Outcomes

Graduates of Electronics and Telecommunication Engineering shall be able to

Programme Outcomes

1. **Engineering knowledge**: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

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.

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

Programme Specific Outcomes

Graduates of Electronics and Telecommunication Engineering shall be able to

PSO1: demonstrate industrial practices learned through internship and solve the live problems of the industries

PSO2: acquire multidisciplinary knowledge through projects and hands on experience to meet industry needs.

PSO3: demonstrate capability to undertake higher studies and develop leadership qualities to emerge as potential entrepreneur.