



# RVS COLLEGE OF ENGINEERING AND TECHNOLOGY

Accredited by NAAC | Approved by AICTE, New Delhi | Affiliated to Anna University, Chennai

Kumarankottam Campus, Kanampalayam

Coimbatore-641402

## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

### PROGRAM EDUCATIONAL OBJECTIVES (PEOs):

- PEO1: To enable graduates to pursue research, or have a successful career in academia or industries associated with Electronics and Communication Engineering, or as entrepreneurs.
- PEO2: To provide students with strong foundational concepts and also advanced techniques and tools in order to enable them to build solutions or systems of varying complexity.
- PEO3: To prepare students to critically analyze existing literature in an area of specialization and ethically develop innovative and research oriented methodologies to solve the problems identified.

### PROGRAMME OUTCOMES (POs)

The graduates of B.E (Electronics and Communication Engineering) will be able to:

- **Engineering Knowledge:** Apply knowledge of mathematics, science, engineering fundamentals and engineering specialization to the solution of complex engineering problems.
- **Problem Analysis:** Identify, formulate, research literature and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences and engineering sciences.
- **Design/ Development of Solutions:** Design solutions for complex engineering problems and design system components or processes that meet specified needs with appropriate consideration for public health and safety, cultural, societal and environmental considerations.
- **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.
- **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 limitation.

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- **The Engineer and Society:** Apply reasoning informed by contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to professional engineering practice.
- **Environment and Sustainability:** Understand the impact of professional engineering solutions in societal and environmental contexts and demonstrate knowledge of, and need for sustainable development.
- **Ethics:** Apply ethical principles and commit to professional ethics, responsibilities and norms of engineering practice.
- **Individual and Team Work:** Function effectively as an individual, and as a member or leader in diverse teams and in multi-disciplinary settings.
- **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, design documentations, make effective presentations and give and receive clear instructions.
- **Project Management and Finance:** Demonstrate knowledge and understanding of engineering and management principles and apply these to ones own work, as a member and leader in a team, to manage projects in multidisciplinary environments.
- **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 (PSOs)

The graduates of B.E. (Electronics and Communication Engineering) will be able to

- Analyze, design and develop solutions by applying foundational concepts of electronics and communication engineering.
- Apply design principles and best practices for developing quality products for scientific and business applications
- Adapt to emerging information and communication technologies (ICT) to innovate ideas and solutions to existing/novel problems.

  
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