SRI VELLAPPALLY NATESAN COLLEGE OF ENGINEERING

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

Programme Educational Objectives (PEOs) for 2019-2020

1. To provide students with the fundamental and advanced knowledge of concepts in Electronics and Communication.

2. To provide students with the skill of designing, analyzing and developing electronic systems and equipments.

3. To enable the students to apply their knowledge in industry, academic or research to develop creative and innovative products.

4. To provide students with the ability to work as a team, to communicate effectively, to have professional ethics and to understand their responsibilities in the society.

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Programme Outcomes (POs) for 2019-2020

On Completion of the programme Grandaunds will be able to:

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

2. **Design and analysis**: Identify, design and perform experiments to analyse and investigate data and information in the field of electronics and communication..

3. **Development of solutions**: Design and develop Electronics and Communication Systems that can meet current requirements in the world, keeping in mind the societal, environmental and ethical constraints.

4. **Life Long Learning:** Learn continuously and regularly to identify technology changes and also to keep in pace with the ever changing field.

5. **Research and Innovate:** Use research based methods which include experiments, analysis and interpretation of data to reach new conclusions which can lead to innovation.

6. **Societal and environmental considerations**: Use techniques and reasoning gained by the contextual knowledge to assess societal, environmental, health, safety, legal and cultural issues keeping in mind the impact it can make.

7. **Ethics**: Always practice engineering by applying ethical principles, norms of engineering practice and get committed to professional ethics and responsibilities.

8. **Team work and communication**: Work effectively as a member or leader in different types of teams, and communicate effectively and frequently with the engineering community and society to address engineering issues.

9. **Use modern tools:** Use modern engineering tools, software's and equipments to analyse and solve complex engineering problems.

10. **Project Management:** Use the knowledge of project and management skills to find creative and innovative solutions in multidisciplinary areas with complex problems.

11. **Entrepreneurship:** Use knowledge gained to generate innovative ideas leading to the creation of startups and then to become a successful entrepreneur.

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Programme Specific Outcomes for 2019-2020

1. To use their skills to design, analyse and implement systems in various fields like VLSI, Embedded Systems, Signal Processing, communication, Electronic Circuits and other analog and digital systems.

2. To use their knowledge, skills in research and develop innovative, creative applications in the field of Electronics and Communication using modern engineering tools.

3. To show commitment towards the society, environment and to have professional ethics.

4. To provide benefits to the society by generating jobs by becoming an entrepreneur.