

SDM College of Engineering and Technology, Dharwad
Department of Electronics and Communication Engineering

UG PEO's, PO's and PSO's

Program Educational Objectives (PEOs)

The Graduates, after a few years of Graduation will be able to:

- I. **Apply** the latest in-depth knowledge in the field of Electronics and Communication Engineering with Mathematical applications to address real life challenges.
- II. **Exhibit** the confidence for independent working and / or spirit to work cohesively with group.
- III. **Readily** be accepted by the Industry globally.
- IV. **Develop** design skills, fault diagnosis skills, communication skills and create research orientation.
- V. **Inculcate** professional, social ethics and to possess awareness regarding societal responsibility, moral and safety related issues

Programme Outcomes (POs):

Engineering Graduates will be able to:


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.

PROGRAM SPECIFIC OUTCOMES (PSOs)

13. Design economically and technically sound analog and / or digital systems based on the principles of signal processing, VLSI and communication Engineering (PO-13)
14. Integrate hardware – software, and apply programming practices to realize the solutions in electronics domain. (PO-14)


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PG PEO's and PO's

Program Educational Objectives(PEOs):

1. To equip the students with sound technical knowledge and capability of keeping in pace with changing technology.
2. To develop self confidence for independent working, leadership quality and spirit to work cohesively with group.
3. To inculcate research orientation in the aspect of system design.
4. To imbibe professional and social ethics and to bring awareness regarding societal responsibility, moral and safety related issues.

Program Outcomes (POs):

- PO1:** An ability to independently carry out research /investigation and development work to solve practical problems.
- PO2:** An ability to write and present a substantial technical report/document.
- PO3:** Students should be able to demonstrate a degree of mastery over the area as per the specialization of the program. The mastery should be at a level higher than the requirements in the appropriate bachelor program.
- PO4:** Apply the knowledge of engineering and state of the art technology to solve complex engineering problems.
- PO5:** An ability to identify, formulate and design technically and socially relevant digital electronics systems or processes to meet desired needs within realistic constraints.
- PO6:** Apply professional ethics and engage in independent and life long learning in the broadest context of technological changes.

