

## Programme Outcomes

| PO#   | PO Description  |
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| PO#1  | <b>Engineering knowledge:</b> Apply the knowledge of mathematics, science, electrical engineering fundamentals compounded with electronics and communication engineering specialization to the solution of complex electronics engineering problems in radio engineering, Signal Processing, VLSI, wireless communication, communication networks, microwave and antenna engineering as well as embedded systems. |
| PO#2  | <b>Problem analysis:</b> Identify, formulate, research literature, and analyze complex electronics engineering problems in radio engineering, Signal Processing, VLSI, wireless communication, communication networks, microwave and antenna engineering as well as embedded systems.   |
| PO#3  | <b>Design/development of solutions:</b> Design solutions for complex electronics engineering problems and design radio communication system and 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  | <b>Conduct investigations of complex problems:</b> Use research-based knowledge and research methods including design of experiments, analysis and synthesis as well as interpretation of data in electronics engineering problems pertaining to radio engineering, Signal Processing, VLSI, wireless communication, communication networks, microwave and antenna engineering as well as embedded systems.       |
| PO#5  | <b>Modern tool usage:</b> Create, select, and apply appropriate techniques, resources, and modern electronics engineering and IT computation and simulation tools including prediction and modeling to deal with complex electronics engineering activities with an understanding of the limitations.   |
| PO#6  | <b>The engineer and society:</b> Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional electronics engineering practice in wireless communications, microwave engineering, antenna installations, medical imaging and applied electromagnetics.                                     |
| PO#7  | <b>Environment and sustainability:</b> Understand the impact of the professional electronics engineering solutions in societal and environmental contexts, and demonstrate the knowledge of regulations pertaining to radio communication and broadcasting as well as need for sustainable development.   |
| PO#8  | <b>Ethics:</b> Apply ethical principles and commit to professional ethics and responsibilities and norms of the electronics engineering practice.   |
| PO#9  | <b>Individual and team work:</b> Function effectively as an individual and as a member or leader in diverse groups and in multidisciplinary settings to foster growth of the organization and society.  |
| PO#10 | <b>Communication:</b> Communicate effectively on complex electronics engineering activities with the electronics 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 | <b>Project management and finance:</b> Demonstrate knowledge and understanding of the electronics 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 | <b>Life-long learning:</b> 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 in the domain of RF, Signal Processing, VLSI, wireless communication, communication networks, microwave and antenna engineering as well as embedded systems.  |