M.Tech - Digital Signal Processing

Program Educational Objectives (PEO)

1. Strengthen analytical skills, the technical knowledge, and exposure to recent advances in the area of digital signal processing as well as in allied fields.
2. Enable the graduates to pursue research by adopting dynamic academic curriculum; implement innovative learning and research practices to harness curiosity and creativity; inspire and educate the students to analyze and solve complex problems.
3. Enhance the employability of the graduates in Industry/Academia/R&D organizations by inculcating strong theoretical and experimental knowledge in the domain with exposure to real-life and practical applications.
4. Instill a deep sense of ethics, social values, professionalism, and interpersonal skills among students.

Program Outcomes (PO)

1. An ability to independently carry out research/investigation and development work to understand and solve practical problems in applied signal processing.
2. An ability to write and present a substantial technical report, dissertation, research publications, or other technical documents.
3. 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.
4. An ability to design innovative data and signal processing systems using principled analytical techniques from a given design goal followed by continuous evaluation and design improvement using mathematical techniques, simulations, and experiments.
5. An ability to prototype data and signal processing systems using software frameworks and relevant hardware subsystems.