

## **M.Tech - VLSI & Micro Systems**

### **Program Educational Objectives (PEO)**

1. Educate the students to take up and solve any industry and research oriented problems starting from VLSI design (ASIC, Low power VLSI, etc.) to microsystem (MEMS, Micro and nanofabrication, Nanoelectronics etc. ) and allied areas.
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 deep sense of ethics, social values, professionalism, and inter-personal skills among students.

### **Program Outcomes (PO)**

1. An ability to independently carry out research /investigation and development work to solve practical problems.
2. ability to write and present a substantial technical report/document.
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. Ability to conceptualize solution for simple and complex design problems in VLSI and Micro systems and their allied areas.
5. Instill the ability to learn, design and develop hardware/software modules /IC chips using the state-of-the-art design tools.