## Program Outcomes (POs) for M. Tech. Program:

**PO 1 Disciplinary Knowledge:** Demonstrate a systematic understanding of advanced concepts in the chosen field of engineering and apply this knowledge to solve complex technical problems.

**PO 2 Problem Analysis and Solution Design:** Critically analyze engineering problems, review research literature, and design innovative solutions with an emphasis on technical feasibility, sustainability, and societal impact.

**PO 3 Research and Innovation:** Undertake cutting-edge research to contribute to knowledge creation, technology development, and innovation in engineering practices.

**PO 4 Professional Ethics and Responsibility:** Adhere to ethical principles and professional responsibilities while making informed decisions in engineering practices.

**PO 5 Communication and Leadership:** Exhibit effective communication, technical writing, and leadership skills to collaborate with multidisciplinary teams and engage with stakeholders.

**PO 6 Life-Long Learning:** Recognize the need for continuous learning to stay updated with evolving technologies and adapt to professional and societal changes.

## **Program Specific Outcomes:**

**PSO1:** Apply mathematical concepts, algorithms, and artificial intelligence techniques to analyze, model, and simulate complex engineering and real-world problems effectively. **PSO2:** Design and develop cost-effective, secure, and scalable software systems that address specific user requirements while considering environmental sustainability and societal impacts.