

Master of Instrumentation Engineering

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.

Programme Specific Outcomes (PSOs)

- PSO1.** Apply the concepts of measurement using various sensors/transducers along with associated signal processing for controlling machines or processors using automation tools like PLC, DCS with proper planning and documentation.
- PSO2.** Apply the concept of automatic control including measurement, feedback and feedforward regulation for the operation of continuous and discrete systems using mathematics as basis of modelling and design.
- PSO3.** Apply the concepts of physics, chemistry and electricity/electronics to measurement, control and communication for design and implementation of various instruments and systems utilising analog and/or digital circuits and control devices.

Programme Educational Objectives (PEOs)

- PEO1.** To introduce students to advanced concepts of Instrumentation and Control engineering to gain proficiency in core/allied fields.
- PEO2.** To perform independent study and research to solve industrial and societal issues.
- PEO3.** To evoke intellectual interest in engineering concepts for providing innovative solutions to real life problems.
- PEO4.** To create awareness on professional issues and to develop qualities of communication, ethics and team spirit to groom into successful leaders and entrepreneurs.