

## **Program Educational Objectives (PEO) - M.Tech (Mechatronics Engineering)**

- PEO 1: Create ability in Graduates to Design, Develop Product and applications in the field of Automation and Mechatronics and be able to use Engineering Tools that will Enhance their Productivity.
- PEO 2: Inculcate Knowledge of Basic Engineering Sciences and Fundamentals of Mechanical, Electrical and Computer Systems.
- PEO 3: Prepare Graduates to be Effective Engineers with Good Analytical and Problem Solving Skill to Innovate, Research and Develop in a Multidisciplinary Environment.
- PEO 4: Aid Graduates to Acquire Professional Ethics and Oral, Written and Graphical Communication Skills.
- PEO 5: Create Awareness of Societal and the Environmental Implications and make them Suitable for Engineering Career in Industrial Environs as well as for Pursuing higher Studies.

## **Program Outcomes - M.Tech (Mechatronics Engineering)**

Graduates will be able to

- a. Apply Knowledge of Math, Science, and Mechatronic Engineering disciplines to Solve Real Life Industrial Problems.
- b. Build Prototype, Test Analyze and Interpret the Results.
- c. Design Mechatronic Systems, Processes or Products.
- d. Independently Analyse Complex Problems with their Course Background and Dissertation Work carried out during Program.
- e. Develop Knowledge of Computer based Mechatronics Engineering Tools for Modeling Simulation and Optimization.
- f. Apply Mechatronic Solutions to address Social and Economic Needs at Global Level.
- g. Implement Mechatronic System/Process which is Environment Friendly with appropriate Consideration for Public Health and Safety.
- h. Understand Professional and Ethical Responsibilities towards Society and the Environment.
- i. Work as a Member of Multi-Disciplinary Teams.
- j. Communicate Technical matters through Visual, Verbal and Written Modes.
- k. Recognize the Importance of Continued Learning due to constantly Evolving Technologies and Develop Entrepreneurial Skills.
- l. Exhibit Effective Project Management Skills to Conceive and Develop a Project Plan.