

### **Program Education Objectives (PEO) M. Tech. (Production Engineering)**

1. Practice with an expertise in academics, entrepreneurship, design and development in production technology, or research in a specialized area of production engineering to pursue higher studies.
2. Exhibit analytical, decision-making and problem solving skills by applying research & the design of principles for handling real shop floor problems with realistic constraints.
3. Ability to communicate the findings or express innovative ideas in an effective manner with an awareness of professional, ethical and social responsibilities.

### **Program Outcomes (PO) M. Tech. (Production Engineering)**

- (a) An ability to independently carry out research /investigation and development work to solve practical problems.
- (b) An ability to write and present a substantial technical report/document.
- (c) 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.
- (d) An ability to extract information pertinent to unfamiliar problems through literature survey and experiments, apply appropriate research methodologies, technical tools, design, conduct experiments, analyze and interpret data, demonstrate higher order skill and view things in a broader perspective, contribute individually to the development of scientific/technological knowledge in one or more domains of engineering.
- (e) An ability to create, select, learn and apply appropriate techniques, resources and modern engineering and IT tools, including prediction and modeling, to conduct engineering activities with the understanding of the limitations.
- (f) An ability to possess knowledge and understanding of group dynamics, recognize opportunities and contribute positively to collaborative-multidisciplinary research, demonstrate a capacity for self-management and teamwork, decision-making based on open-mindedness, objectivity and rational analysis in order to achieve common goals and further the learning of themselves as well as others.