

"Techno Social Excellence" Marathwada Mitra Mandal Institute of Technology Lohgaon, Pune – 411047



"Mechanized Design Application"

Department: Mechanical Engineering

Course Name: Advanced Manufacturing Processes

Final Year of Mechanical Engineering (2015 Course)

Course Code : 402050A

Course Objectives:

- 1. To analyze and identify applications of special forming processes
- 2. To analyze and identify applications of advanced joining processes
- 3. To understand and analyze the basic mechanisms of hybrid non-conventional machining techniques
- 4. To understand various applications and methods of micro and nano fabrication techniques
- 5. To understand advanced Additive Manufacturing (AM) technology for innovations in product development
- 6. To understand various material characterization techniques.

Course Outcomes:

On completion of the course, students will be able to -

- CO1: Classify and analyze special forming processes
- CO2: Analyze and identify applicability of advanced joining processes
- CO3: Understand and analyze the basic mechanisms of hybrid non-conventional machining techniques
- CO4: Select appropriate micro and nano fabrication techniques for engineering applications
- CO5: Understand and apply various additive manufacturing technology for product development
- CO6: Understand material characterization techniques to analyze effects of chemical composition, composition variation, crystal structure, etc.