

**Department of Mechanical Engineering
Tezpur Central University, Assam**

Programme: Master of Technology (M.Tech.)

Programme Educational Objectives (PEOs)

The M.Tech. program in Mechanical Engineering has the following PEOs.

- PEO1: Pursue research and develop innovative ideas for synthesizing and analyzing mechanical systems.
- PEO2: Achieve life-long learning in order to contribute towards newer fields of engineering research to cater to the need of the society.
- PEO3: Work on the state of the art multidisciplinary engineering problems of industrial relevance.

Programme Outcomes (POs)

From the M.Tech. Mechanical Engineering program, the students will attain:

- 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: An ability to demonstrate a degree of mastery and in-depth knowledge in the following specialized areas:
 - a. Numerical and experimental fluid flow and heat transfer
 - b. Design, analysis and optimization of Mechanical systems
 - c. Materials engineering for design
 - d. Renewable thermal energy