

Veermata Jijabai Technological Institute

Mechanical Engineering Degree

Program Outcome (POs)

1. PO1: Apply knowledge of mathematics, science and engineering to design, analyze and evaluate mechanical components & complex systems.
2. PO2: Analyze problems of mechanical engineering including design thermal and manufacturing industrial systems.
3. PO3: Design, implement, and evaluate mechanical systems and processes considering public health, safety, cultural, societal and environmental issues.
4. PO4: Design and conduct experiments using domain knowledge and analyze data to arrive at valid conclusions.
5. PO5: Apply recent techniques, skills, knowledge and computer based methods & tools to solve mechanical problems.
6. PO6: Analyze the local and global impact of modern technologies on individual organizations, society and culture.
7. PO7: Apply knowledge of contemporary issues to investigate and solve problems with a concern for sustainability and eco-friendly environment.
8. PO8: Exhibit responsibility in professional, ethical, legal and social issues.
9. PO9: Function effectively in teams, in diverse and multidisciplinary areas to accomplish common goal.
10. PO10: Effective written and verbal communication on complex engineering activities and exhibit leadership qualities.
11. PO11: Apply management principles to manage projects in multidisciplinary environment.
12. PO12: Pursue life-long and independent learning as a means to enhance knowledge and skills.
13. PO11: Apply management principles to manage projects in multidisciplinary.

Program Educational Objectives (PEOs)

1. To attain Analytical, Experimental and Computational expertise in Mathematics, Applied Sciences and Core Engineering subject domain.
2. To discharge responsibilities towards society by achieving high standards of professionalism, leadership and ethical behavior.
3. To comprehend the need for higher studies and lifelong learning so as to remain in competitive and sustainable environment.

Program Specific Outcomes (PSOs)

Our Graduate should be able to apply principles of Mechanical Engineering to:

1. Specify, manufacture, test, operate and document basic mechanical systems and processes.
2. Analyse, design, develop and implement advanced mechanical systems and processes.
3. Select solutions to the mechanical engineering problems based on ethics, sustainability and long term benefits to society.