



JSPM UNIVERSITY PUNE
Faculty of Science and Technology (FST)
School of Mechanical and Manufacturing Sciences

Program: M. Tech. [Robotics and Artificial Intelligence]

Vision:

To be the epitome of academic excellence in the mechanical and manufacturing stream, nurturing human values, pioneering contemporary research and innovations, driving industry advancements, and shaping a sustainable, technology-driven future.

Mission:

- To provide a dynamic, inclusive learning environment that stimulates creativity and research, along with leadership qualities.
- To foster the passion of life-long learning by preparing students for a productive career in a sustainable competitive, dynamic, and technologically based society.
- To equip students with contemporary skills to inculcate meaningful contributions to industry and society through impactful solutions.
- Instilling ethical principles and moral values in education, fostering a culture of respect, inclusivity and social responsibility.

Program Educational Objectives (PEO's)

- **PEO 1: Core Competence:** Fundamental and technical knowledge with skills in Artificial Intelligence & Robotics area to enable and empower to solve problems of the modern industrial world.
- **PEO 2: Depth (Research culture):** Imbibing a scientific perspective to make a decision of Robotic systems and Artificial Intelligence using Mathematical, Engineering, Computational & Simulation tools.
- **PEO 3: Professionalism:** Make acquaint with technical, managerial and human skills and familiarize with professional issues like ethics and morality, Intellectual property Rights, Constitution of India and Environmental responsibility.
- **PEO 4: Learning Environment:** Motivation for entrepreneurship and inculcating a spirit of continuous lifelong learning for a successful professional career.

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Program Outcomes (PO's)

- **PO 1:** An ability to independently carry out research /investigation and development work to solve practical problems in the field of Robotics & Artificial Intelligence



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- **PO 2:** An ability to write and present a substantial technical report/document
- **PO 3:** An ability to demonstrate a degree of mastery in the area of Artificial Intelligence & Robotics
- **PO 4:** They will develop capacity to understand multidisciplinary engineering areas and display skills for Robotic system design, Artificial Intelligence programming tools, Control systems and Machine learning.
- **PO 5:** The graduates will exhibit effective communication skills with equal expertise to communicate with engineers and with the community at large.
- **PO 6:** The graduates will have a sound foundation of business ethics, professional integrity and social responsibility along with introspection skills and positive outlook for taking corrective measures based on external feedback

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Program Specific Outcomes (PSO's)

- **PSO 1:** To apply the technology of Robotics and AI for design and build robotic systems for different applications.
- **PSO 2:** To create, and apply the techniques of AI with blend of Robotics to forecast future events in the domain of Healthcare, Education, Agriculture, Manufacturing, Automation and Transport, etc.
- **PSO 3:** To enrich research culture in the field emerging trends of robotics and AI.

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Programme Coordinator

Handwritten signature of the Director.

Director