JSPM University Pune
Faculty of Science and Technology
School of Mechanical and Manufacturing Sciences

M. Tech (Food Technology)

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-1 To strengthen knowledge in the domain of food science and technology and for augmenting innate skills to trigger employability and entrepreneurship.

PEO-2 To update thought process of students involving an ability to identify and evaluate on growing problems from the application domain of food science and technology to monitor innate research skills for further commitment as a lifelong learner.

PEO-3 To inculcate professional attitude for personalized or taskforce driven team management system in coordination with societal commitment, professional ethics and environmental compatibility vision as a life-time learner.

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Program Outcomes

PO 1: Knowledge and Understanding – Graduates will possess advanced knowledge and critical understanding in specialized fields, along with proficiency in research principles and techniques applicable to their chosen field(s).

PO 2: General, Technical, and Professional Skills - Graduates will demonstrate advanced cognitive, technical, and research skills necessary for complex tasks within their fields. They'll also be adept at evaluating research findings and conducting innovative research.

PO 3: Application of Knowledge and Skills - Graduates will apply advanced theoretical and technical knowledge to analyze real-life problems in their fields. They'll utilize research methods effectively to develop evidence-based solutions to complex issues.

PO 4: Generic Learning Outcomes - Graduates will excel in listening, reading analytically, and presenting complex information clearly. They'll communicate technical information effectively and evaluate evidence critically. They'll also engage in continuous learning and self-directed research.

PO 5: Constitutional, Humanistic, Ethical, and Moral Values - Graduates will uphold constitutional, humanistic, ethical, and moral values in both personal and professional contexts. They'll address ethical issues and support sustainable development practices.

PO 6: Employability and Job-Ready Skills, and Entrepreneurship Skills - Graduates will acquire the knowledge and skills needed to adapt to technological advancements and evolving job demands. They'll demonstrate personal responsibility and strategic thinking in managing complex and unpredictable work situations.

PO 7: Multicultural competency and inclusive spirit:

Capability to work effectively with multidisciplinary teams/ multicultural team and facilitate coordinated effort as a group or a team in the interests of a common cause and work efficiently as a member of a team.

Gender sensitivity and adopting a gender-neutral approach, as also empathy for the less advantaged and the differently-abled including those with learning disabilities.

Adoption of multicultural groups with demonstrations of values for betterment of diverse culture society.

PO 8: Digital and technological skills: Capacity building technical skills to handle modern and sophisticated equipment, software, and IT tools for generation of need base products and processes.

PO 9: Value inculcation: Generation of holistic technocrats through inculcation of life skills, ethical practices to create vibrant human value systems-based thought process driven technological knowledge application mind set, exclusively for human welfare with due conservation of existing moral dimensions in every aspect of modern technology-based wealth generation.

PO 10: Environment and sustainability: Awareness about environmental issues related to food industries (pollution, climate change, hunger, and malnutrition) and trouble shoot them with effective suitable food processing, waste management, conservation and management of biological resources and work towards sustainable development.

PO 11: Community engagement and services: Capability enhancement of student as food technologist, sharing the responsibility as an Indian citizen in community-engagement services and activities for promoting the wellbeing of society.

PO 12: Life-long learning: Ability to demonstrate the skills necessary to continually educate oneself and engage in independent and life-long learning in the broadest context of technological change and also to build the capacity to emerge out as an entrepreneur.

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Program Specific Outcome (PSOs)

PSO 1: Food Industry Competency - Students will be able to acquire competency in food processing and quality control.

PSO 2: Entrepreneurship skills - Holistic techno-managerial capacity building of students will be able to gain professional skills in dairy and beverage industry.

PSO 3: Research Motivation - Student capability enhancement for individual or team driven working potential to monitor existing research portfolio.

Programme Coordinator

Director