

Vision and Mission of the JSPM University and School

Faculty: Faculty of Science and Technology

Name of School: School of Civil and Environmental Sciences

Program Name: M. Tech. Transportation Engineering

Vision and Mission of the JSPM University

Vision

To be a value-based globally acclaimed university at the forefront of innovation that provides experiential and transformative education through outstanding research and scholarship, leveraging service and leadership for industry and society.

Mission

- To be a learner-centric university creating a dynamic and inclusive community that fosters intellectual, experiential, and lifelong learning competencies, while making meaningful contributions to society.
- To nurture thinkers and solution providers that lead innovation and knowledge creation.
- To advance knowledge and understanding, through cutting-edge research, scholarship, and creative activity, whilst also providing students with a transformative education that prepares them for success in the global workforce.
- To imbibe entrepreneurial skill and values among faculty and students.
- To be a leader in higher education, establishing synergetic relations and alliances which offer opportunities for long-term interaction with academia of repute and industry, both nationally and internationally.

Goals

- To be globally acclaimed University in top 500 bracket of International Ranking.
- To attain 200% growth in research outcomes including quality publications in Quartile Journals and conferences, patents, sponsored Projects, Technology products, books, monograms etc.
- To be a multi-faculty University with 5 multidisciplinary research centres and introduce 5 interdisciplinary programmes.

- To setup 10 collaborative centres of excellence imparting essential skills for enhancing academic pursuits.
- To establish an industry partnered incubation centre to nurture entrepreneurship.
- To have 25% of learner population opting for entrepreneurship and/or pursuing higher studies.
- To attract foreign faculty from reputed universities to the extent of 5% of total faculty.
- To secure a digital ecosystem that facilitates communication and collaboration with stakeholders.
- To have 50 collaborations-MoUs with Institutes of repute both India and abroad.

Vision and Mission of the School

Vision

Fostering value-based education, research, innovation and leadership development in Civil Engineering and Environmental Sciences for industry and society.

Mission

- To provide value-based education in Civil Engineering that equips individuals to perform morally with responsibility and integrity.
- To foster a transformative education in Civil Engineering, cultivating entrepreneurial skills and values among faculty and students, ensuring their readiness for leadership in the global workforce.
- To drive impactful research and innovation in Civil Engineering, addressing societal and industry needs.
- To nurture environmentally conscious engineers contributing to sustainable solutions.



Program Coordinator



Director of the School

Program Educational Objective (PEOs) Program Specific Outcomes (PSOs)

Program Educational Objectives (PEOs):

PEO-I	Graduates will lead in the design, planning, and implementation of efficient and sustainable transportation systems, addressing the growing needs of urban and rural mobility.
PEO-II	Graduates will continuously adapt to emerging technologies and data-driven solutions, contributing to the development of smart and safe transportation networks.
PEO-III	Graduates will foster entrepreneurial ventures that enhance transportation infrastructure, leveraging technological advancements and innovative practices.

Program Specific Outcomes (PSOs):

PSO-I	Plan and design sustainable transportation systems, prioritizing efficiency, safety, and environmental impact.
PSO-II	Implement and evaluate smart transportation technologies using data analytics, GIS, and IoT for optimized mobility solutions.


Program Coordinator


Director of the School

Program Outcomes (POs)

Program Outcomes (POs):

PO-1	Application of Advanced Engineering Knowledge- Apply advanced knowledge of science, mathematics, and engineering principles to analyze, interpret, and solve complex transportation engineering problems.
PO-2	Design and Development of Sustainable Solutions- Design and develop solutions for transportation engineering challenges, considering public health, safety, societal needs, and environmental sustainability.
PO-3	Research, Investigative Expertise, and Report Writing - Conduct investigations into complex transportation engineering problems using research-based methodologies. Communicate findings effectively through technical reports and presentations.
PO-4	Mastery in Specialized Domains- Demonstrate mastery in transportation engineering, encompassing traffic systems, infrastructure design, and mobility management.
PO-5	Interdisciplinary and Project Management Skills- Integrate transportation engineering knowledge with multidisciplinary approaches to plan, lead, execute, and manage projects, considering economic, financial, and societal factors.
PO-6	Ethics, Lifelong Learning, and Community Contribution- Demonstrate professional ethics, work culture, and a commitment to lifelong learning.


Program Coordinator
Dr. Prashant Sydani


Dr. M. N. DHYE
Director of the School