

GATI SHAKTI VISHWAVIDYALAYA

(India's First University in Transportation and Logistics)

Leads Thrust Areas in Transportation and Logistics Sector

Gati Shakti Vishwavidyalaya (GSV), Central University is established by Ministry of Railways, Government of India with a unique mandate to create a best-in-class resource pool for the entire transportation and logistics sector (including Rail, Road, Water, Aviation, Ports and Shipping) across technology, management and policy comprising multidisciplinary teaching, executive training, skilling and research. GSV follows a demand-driven curriculum to meet the industry needs of the transportation sector.

In line with the Vision “*Innovation-led, Industry-driven University*”, Gati Shakti Vishwavidyalaya has collaborated with the various leading industries such as Airbus, Nippon Koei, Nokia, Siemens, Jacobs, Plasser India, RailTel and others to deliver industry relevant solutions in transportation and logistics sector.

Gati Shakti Vishwavidyalaya (GSV) is a driving force behind the ambitious Gati Shakti National Master Plan. By expanding its academic portfolio in Rail, Road, Aviation, Water, Ports and Shipping, GSV is poised to become a global leader in transportation.

A team of highly experienced GSV faculty with global exposure leads the following thrust areas with a vision to enrich the ecosystem of transportation and logistics in India and Globe.

S. No.	Thrust Area in Transportation and Logistics	Team Lead	Team Members
1	Impact assessment of PM Gati Shakti National Master Plan for improving Infrastructure Planning in India	Prof. Jitesh J. Thakkar	Dr. Vipul Kumar Mishra Dr. Sumit Kumar Dr. Kuldeep Singh
2	Design of Multi-Modal Bus Depots for enhancing Multi-Modal Logistics for Passengers	Prof. Jitesh J. Thakkar	Dr. Hari Krishna Gaddam Dr. Sumit Kumar Dr. Priyanka
3	Design of Multi-Modal Logistics Parks (MMLP) for the Freight Transport considering fusion of Civil and Military Infrastructure	Prof. Jitesh J. Thakkar	Dr. Hari Krishna Gaddam Dr. Shweta Saharan Dr. Anshika Srivastava Dr. Abhilasha Saksena
4	Impact Assessment of Public-Private Partnership Projects (PPP) for Infrastructure Projects	Prof. Jitesh J. Thakkar	Prof. Pradeep Kumar Garg Dr. Kuldeep Singh Dr. Sumit Kumar Dr. Pradeep Dr. M. Krishna Chaitanya
5	Modelling, Assessment and Developmental Frameworks for Transport Safety in Rail, Road, Water and Aviation	Prof. Jitesh J. Thakkar	Prof. Pradeep Kumar Garg Dr. Vipul Kumar Mishra Dr. Hari Krishna Gaddam Dr. Priyanka Dr. Prasiddh Trivedi Dr. Kiran Gunde Dr. B. Anil Kumar
6	Supply Chain Design and Optimization for Maintenance, Repair and Operations (MRO)	Prof. Jitesh J. Thakkar	Dr. Pradeep Kumar Saroj Dr. Navneet Lal Sharma Dr. Jyoti Sharma

7	Impact Assessment of Urban Mobility Solutions for Smart Cities	Prof. Jitesh J. Thakkar	Dr. Hari Krishna Gaddam Dr. Vipul Kumar Mishra Dr. Sonu Lamba Dr. Krishna Dayal Shukla
8	Enhancing Performance of Cold Chain Infrastructure using Biosensors	Prof. Jitesh J. Thakkar	Dr. Pramila Dr. Prasiddh Trivedi Dr. Sonu Lamba Dr. Abhilasha Saksena
9	Advanced Battery Technologies and Electric Propulsion:	Dr. Kumar Sourabh	Dr. Jyoti Sharma Dr. Krishna Dayal Shukla Dr. Praveen C Dr. Pramila
10	Autonomous Vehicles and Intelligent Transportation Systems (ITS):	Dr. Vipul Kumar Mishra	Dr. Sumantra C Dr. Abhilasha Saksena Dr. Shweta Saharan Dr. Sonu Lamba Dr. Krishna Dayal Shukla Dr. Kiran Gunde Dr. Jyoti Sharma
11	Sustainable Aviation Fuels (SAFs):	Dr. M. Krishna Chaitanya	Dr. V. Chintala Dr. Dinesh G Dr. Siva Rama Krishna Madeti Dr. B. Anil Kumar Dr. Jyoti Sharma
12	Hyperloop and High-Speed Rail:	Dr. Sunil Kumar Sharma	Dr. Jyoti Sharma Dr. Abhilasha Saksena Dr. Ram Upadhyay
13	Urban Air Mobility (UAM) and Drone Technology:	Dr. Asifa Yesmin	Dr. Abhilasha Saksena Dr. Prasiddh Trivedi
14	Smart and Sustainable Infrastructure:	Dr. Krishna Dayal Shukla	Dr. Pramila Dr. Nikhil Ranjan Dr. Praveen C Dr. Navneet Lal Sharma Dr. Sonu Lamba Dr. Sagar
15	Mobility-as-a-Service (MaaS) and Integrated Mobility Platforms:	Dr. Kuldeep Singh	Dr. Priyanka Dr. Sumit Kumar Dr. M. Krishna Chaitanya Dr. Anshika Srivastava Dr. Krishna Dayal Shukla Dr. Pradeep Kumar Saroj
16	Connected and Cooperative Driving:	Dr. Nikhil Ranjan	Dr. Navneet Lal Sharma Dr. Pradeep Kumar Saroj
17	Advanced Logistics and Supply Chain Optimization:	Dr. Shweta Saharan	Prof. Jitesh J. Thakkar Dr. Sonu Lamba Dr. Sumit Kumar Dr. Pramila Dr. Gaurav Khare Dr. Pradeep Kumar Saroj
18	Human-Machine Interface (HMI) and User Experience:	Dr. Sumit Kumar	Prof. Jitesh J. Thakkar Dr. Shweta Saharan Dr. Vipul Kumar Mishra Dr. Sonu Lamba Dr. Anshika Srivastava Dr. Pradeep Kumar Saroj

19	Analytical study of Radar Cross-section of Plasma coated metamaterial-based hypersonic airborne objects of different shapes	Dr. Sumantra C	Dr. Navneet Lal Sharma
20	Mobility on Demand: The Rise of Gig Work in Urban Transit	Dr. Kuldeep Singh	Dr. Priyanka Dr. Krishna Dayal Shukla Dr. Anshika Srivastava
21	Cyber-resilient Energy Infrastructure for Sustainable Transportation & Logistics	Dr. Gaurav Khare	Dr. Asifa Yesmin Dr. Pradeep Kumar Saroj Dr. Sumit Kumar
22	Mathematical Modeling of Wave Propagation for Optimizing Transportation Infrastructure Resilience and Logistics Efficiency in Seismic Zones	Dr. Pradeep Kumar Saroj	Dr. Nikhil Ranjan
23	Exploring Technical and financial feasibility of urban co-modality and developing frameworks for integration of modes	Dr. Hari Krishna Gaddam	Dr. Sumit Kumar
24	Continuum model for mixed traffic streams and numerical methods	Dr. Hari Krishna Gaddam	Dr. Pradeep Kumar Saroj
25	Green hydrogen for transportation	Dr. V Chintala	Prof. R Edwin Raj Dr. Krishna Chaitanya Dr. Gaurav Khare

