

WORKSHOP ON Naturalistic Driving Studies for Highway Design and Safety (NDSHDS)



DATE: 17 – 18 JULY 2025

Naturalistic Driving Studies (NDS) have emerged as a crucial tool in understanding driver behavior, road safety challenges, and accident causation factors. This workshop aims to provide insights into the methodologies, data collection techniques, and applications of NDS for highway design and safety. It will bring together experts, academicians, and industry professionals to discuss best practices and future trends.

Co-organizing with



Madhya Pradesh



Key Takeaways

- Understanding the importance of Naturalistic Driving Studies in highway safety.
- Insights into real-world driving behavior and risk factors.
- Latest research methodologies and data analysis techniques.
- Practical applications for policymaking and infrastructure planning.
- Collaborative opportunities between academia, industry, and government.

Participation



Why to Participate ?

- Gain real-world insights into driver behavior, vehicle interactions, and roadway safety through Naturalistic Driving Studies (NDS).
- Learn data collection, analysis, and interpretation using advanced tools.
- Explore how NDS informs policy, infrastructure design, and highway safety.
- Connect with experts, policymakers, and peers in transportation safety.



Who Can Participate:

- Academicians & Researchers in Transportation Engineering.
- Industry Professionals in Road Safety & Infrastructure.
- Government Policymakers, Smart City Planners, & Police.
- Engineers in Highway Development.
- PhD & Postgraduate Students in Transportation & Allied Fields.

Programme

Day 1: Area of talks

- Introduction to Naturalistic Driving Studies (NDS).
- Data Collection Methods and Technologies.
- Performance-based Geometric Design.
- Applications in Road Safety and Design.
- NDS Applications on ITS.
- Case Studies and Research Findings.
- Experimental Demonstration Session.

Day 2: Site visit

- NATRAX (National Automotive Test Track), Pithampur, Madhya Pradesh.

Key Resource Persons

- Experienced professionals with extensive experience in the field.
- Experts from IITs, NITs, CRRI, BITS and NATRAX.
- Industry Experts.

Registration Details

- The fee is ₹ 500 for students and ₹ 1000 for professionals (including taxes).
- Deadline: 25 June 2025.
- Up to 100 on a first-come, first-served basis.
- Link: <https://forms.gle/nMYzFNwmVeSEwtSo7>
- Scan QR for registration



Note: All the participants need to arrange their travel and stay during the workshop.

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Accommodation

- Up to **100 occupancies** in the **institute hostel** are available on a chargeable basis.
- Accommodation charges can be paid directly at the time of check-in.
- Double occupancy room **@₹500/day per participant**.
- Accommodation can be booked in advance on a first-come, first-served basis.
- If you require hostel accommodation, please indicate it in the place provided in the registration form.
- **Nearby Hotels:** Options include Hotel Amrat Villa, Bombay Darbar Family Hotel & Restaurant, SPOT ON Govind Hotel & Restaurant, and The Sky Imperial - Sethji Ni Wadi Resort.

Call for Extended Abstract for Poster Presentation

We invite students, researchers, and professionals to submit extended abstracts for poster presentations aligned with the theme of the Workshop on NDSHDS.

- This is an excellent opportunity to showcase your work, share insights, and engage with experts in the field of transportation engineering and road safety.
- **Extended Abstract Guidelines:** Up to 500 words in a standard format
- **Submission Deadline:** 25 June 2025
- **Notification of Acceptance:** 1 July 2025
- **Presentation Date:** 17 July 2025
- Submission Link: <https://forms.gle/JeMwfyzj83ahACEw9> or Scan the QR Code
- Selected abstracts will be featured during the workshop, and the top three posters will receive awards for their contribution.



How to reach

By Air:
Devi Ahilyabai Holkar
International Airport about
30 km from IIT Indore.

By Train:
Indore Railway Station is
about 24 km from IIT
Indore.

By Bus:
Indore is well-connected by
bus services from MP and
neighboring states.

Places to Visit



Omkareshwar



Mahakaleshwar



Choral Dam



Patalpani



Mandav (Jahaz Mahal)

Site Visit Partner

National Automotive Test Tracks



ADAS TESTING AT NATRAX



CRASH BARRIER TESTING



TRACKS



Vehicle Instrumentation Lab

Data Acquisition System,
Speed Sensors, Steering Wheel Sensor,
Brake Sensor, Fuel Flow Meter,
Steering robot, wheel force transducer

High Speed Track

Oval Shaped High Speed track of
16m Width, Total Length of
11.3 Km Max, Neutral Speed:
50 kmph, Max Speed: 375 kmph

