

IIT (BHU) URBAN MOBILITY SHORT-TERM COURSE

Dr. Harish Puppala

AP, Andhra Pradesh

Centre for Geospatial Technology, SRM

13-17 MARCH 2023



| DAY 1 Cyber-Physical Systems and ITS | DAY 2 Data Analytics for Inclusive Urban Mobility |
|---|---|
| Introduction to Cyber Physical Systems: Fundamentals and Design Dr. Abhishek Dubey Associate Professor, Vanderbilt University | Transit Scheduling, Dynamic Fleet Allocation and Route Design in Smart Cities: Use case development for cyber-physical systems in the USA |
| Decarbonising Road Transport in India Amit Bhatt Managing Director, International Council on Clean Transportation | Image: Second |
| Intelligent Transportation Systems (ITS) deployment in Indian smart cities and pathways for future advancements in traffic management Dr. Rajesh Krishnan <i>CEO</i> , <i>TS Planners and Engineers, India</i> | Integrating Public Transportation Modes in a City and Planning for Multimodality |
| Hands-on-Training on Geospatial analysis: facility planning for Indian cities, introduction to spatial data ac- quisition, QGIS exploration, preparation of maps | Non-motorized Transport Planning and Pedestrian Walkability: Case studies from Indian CitiesImage: Stress of the str |

Hands-on Training on R Programming for Travel Demand Modelling and Electric Vehicle Adoption



Dr. Varun Varghese Assistant Professor, Hiroshima University, Japan

DAY 3 Data Analytics for Congestion Mitigation

DAY 4 Data Analytics for Urban Traffic Management

Urban Traffic Operations: Technological Solutions



Dr. Vijay Kovvali Professor of Practice at IIT Delhi

Parking Management Action Plan for Cities: Data-driven Models and Policies for Equitable Use of Land



Reashma P S Co-Founder and Managing Director, Street Matrix

Traffic Management Using Intelligent Transportation Systems (ITS) and Adaptive Routing Algorithms



Dr. Lelitha Devi Vanajakshi Professor, IIT Madras

Intelligent transportation systems (ITS) and Road Safety



(Dr. Vijay Kovvali Professor of Practice at IIT Delhi Hands-on training sessions on traffic micro - simulation using VISSIM Session 1



Dr. Caleb Ronald Munigety Head

Mobility Think-tank, Bosch India

Hands-on training sessions on traffic micro - simulation using VISSIM Session 2



Dr. Caleb Ronald Munigety Head

Mobility Think-tank, Bosch India

Hands-on training sessions on traffic micro - simulation using VISSIM Session 3



Dr. Caleb Ronald Munigety *Head Mobility Think-tank, Bosch India*

Urban Freight Planning Best Practices in France



Dr. Jesus Gonzalez-Feliu

Professor La Rochelle Business School, France

DAY 5 Data Analytics for Safe and Sustainable Urban Freight

CLOSING CEREMONY

Big-data Modelling for Crash Prediction and Safety Interventions: Case Studies Safety Analytics in the USA



Dr. Sabya Mishra Professor, University of Memphis

Hands-on Training on Data Analytics for Choice Modelling with case studies on travel satisfaction, multitasking, and crowding from India, Bangladesh and Japan



Dr. Varun Varghese Assistant Professor, Hiroshima University, Japan

Urban Freight Planning Best Practices in Sweden – A Case for Smart Freight Parking and Urban Consolidation



Dr. Ivan Sanchez-Diaz *Chalmers University, Sweden*

Urban Freight Planning Best Practices in Austria – A Case for Inland Water Freight Transport



Dr. Lisa-Maria Putz-Egger *Professor University of Applied Sciences Austria*

Planning and Policies for Urban Freight Movement in India: Addressing the "elephant in the room"



Dr. Agnivesh P Assistant Professor IIT (BHU) Varanasi



Dr. Agnivesh P Assistant Professor IIT (BHU) Varanasi



Dr. Ankit Gupta Associate Professor IIT (BHU) Varanasi



Dr. Varun Varghese Assistant Professor, Hiroshima University, Japan



Dr. Rajesh Krishnan CEO, ITS Planners and Engineers, India

Campus tour of IIT (BHU) and Transportation Lab Visits for in-Person participants

To be held On 13/03/23 (Day 1)

In-person participants should report on monday 8 AM for collecting their registration kits