SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY, MANAGEMENT & GRAMOTHAN

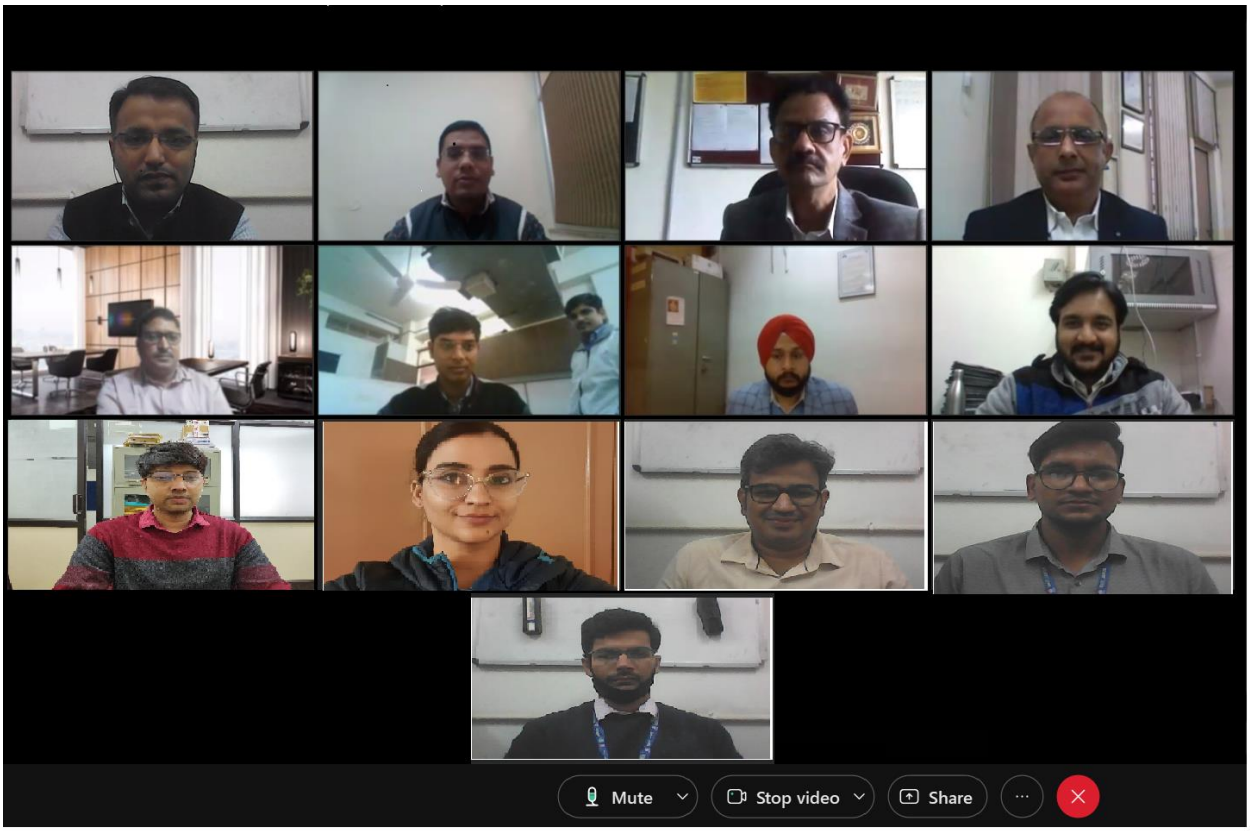
(Department of Civil Engineering & Centre of Transportation Engineering)

5 – Day Faculty Development Programme on

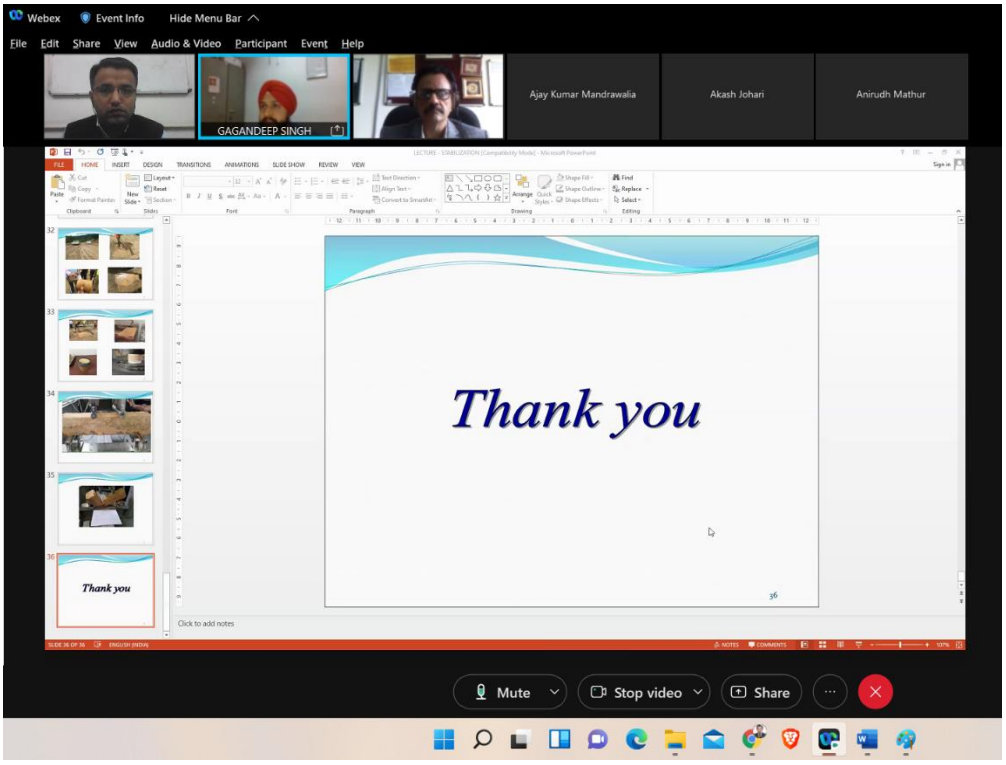
"Transportation Geotechnics and Materials for Sustainable Infrastructure (TGMSI-2021)"

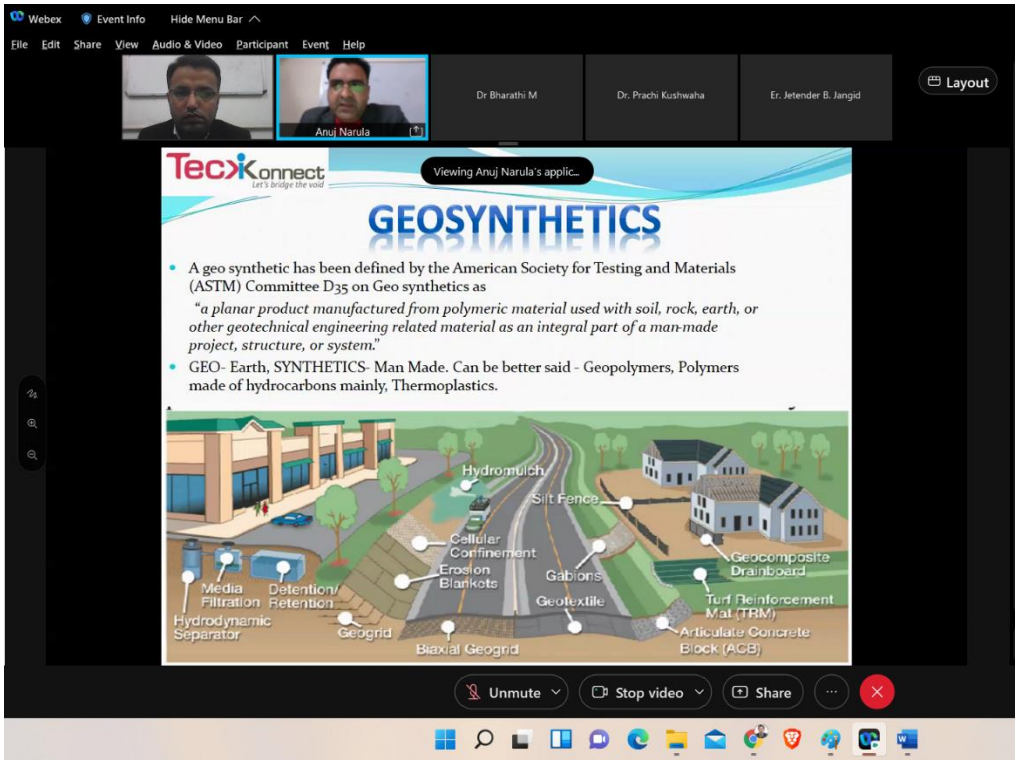
REPORT OF THE EVENT

5-day faculty development programme on "Transportation Geotechnics and Materials for Sustainable Infrastructure" was organized collaboratively by Department of Civil Engineering and Centre of Transportation Engineering in SKIT Jaipur from 13th to 17th December 2021. Mr. Pradeep Kumar Garg (Chief Engineer, RUDSICO Jaipur) graced the event as chief guest. Dr. Mukesh Arora (Head – Faculty affairs) welcomed the guests and participants. Prof. D. K. Sharma (Head – Civil Engineering) briefed the audience about the FDP. Prof. B. L. Sharma delivered a vote of thanks for the inaugural ceremony. Ten Eminent speakers from industry, academics and research institutions shared their knowledge and experiences during the course of event. More than 370 faculty members from various educational institutes from India and abroad registered to attend the event.

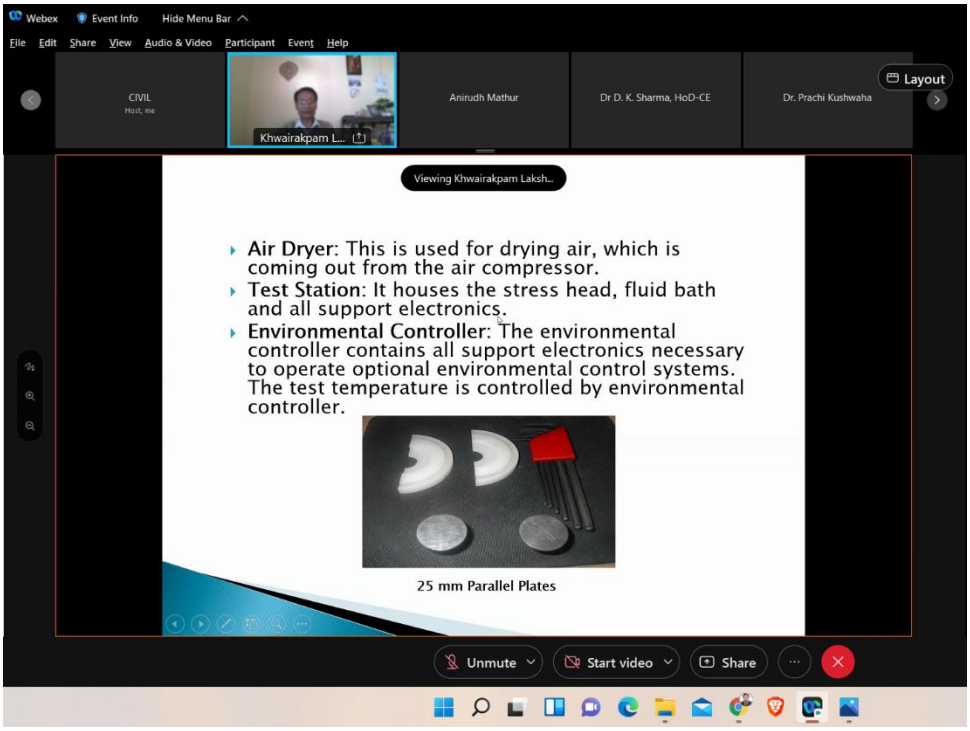


On Day 1, first session was delivered by Er. Gagandeep Singh (Senior Scientist, CRRI). He emphasized on methodology adopted in stabilization of lower layers of pavement. Second session of the day was taken up by Er. Anuj Narula (Founder-Teckkonnect). He explained the various types of geosynthetics used in field and what are the advantages of using geosynthetics.

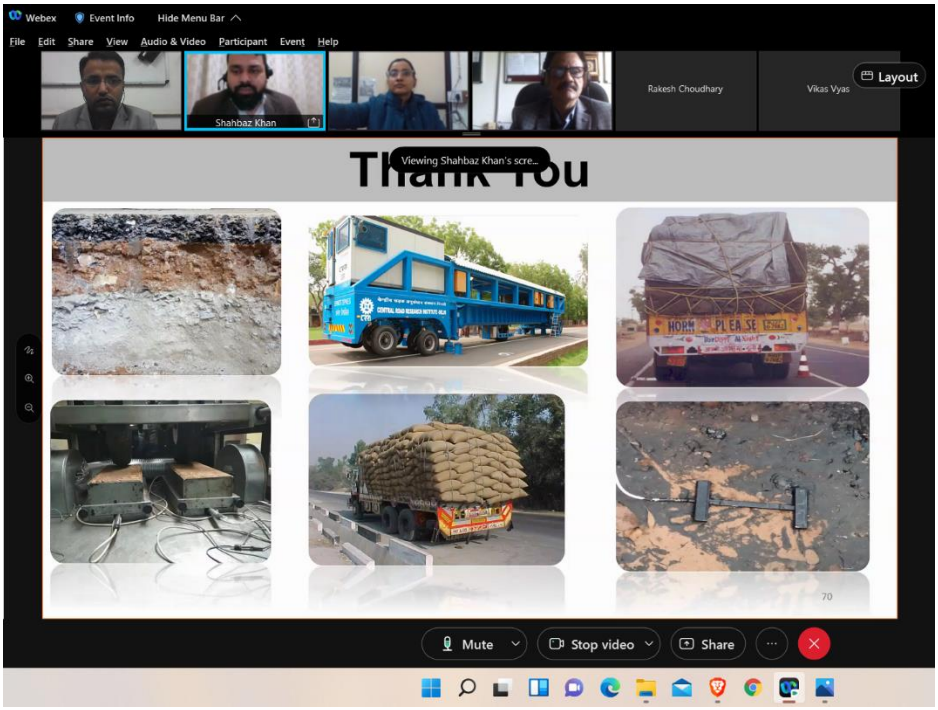


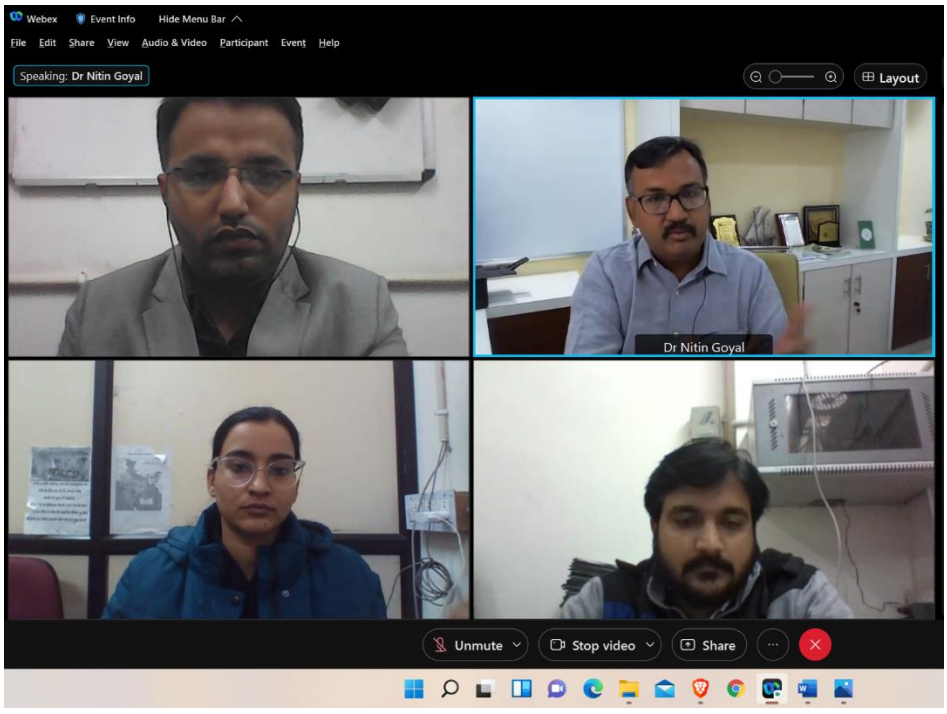


On Day 2, first session was delivered by Dr. Kh. Lakshman Singh (Assistant Professor-NIT Silchar). He enlightened the participants about the rheological properties of bitumen. All the parameters determined through Direct Shear Rheometer were explained. Second session of the day was taken up by Dr. Neha Shrivastava (Assistant Professor-MNIT Jaipur). She explained about problems related to liquefaction of soil and how grouting methods can help in preventing liquefaction.

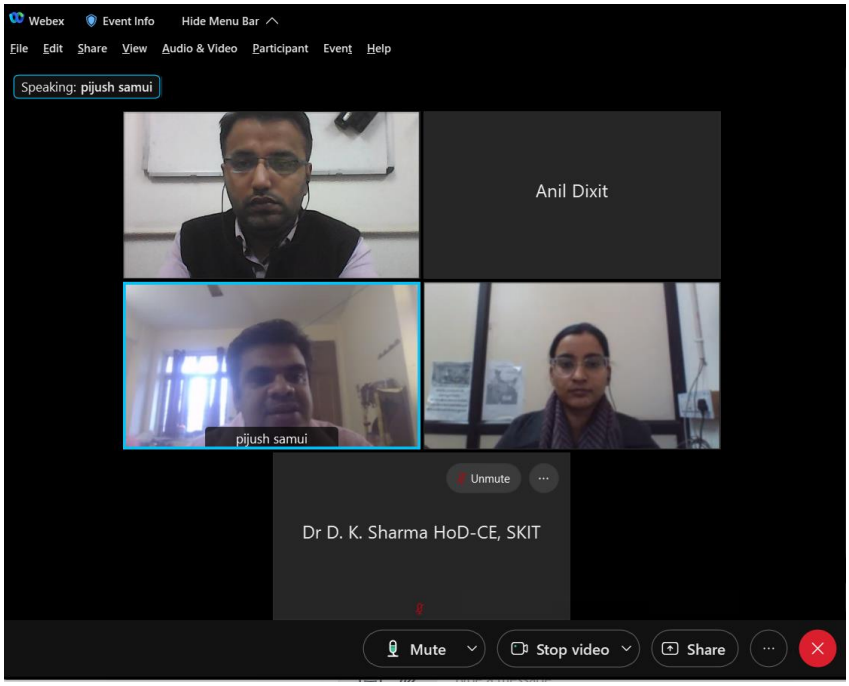


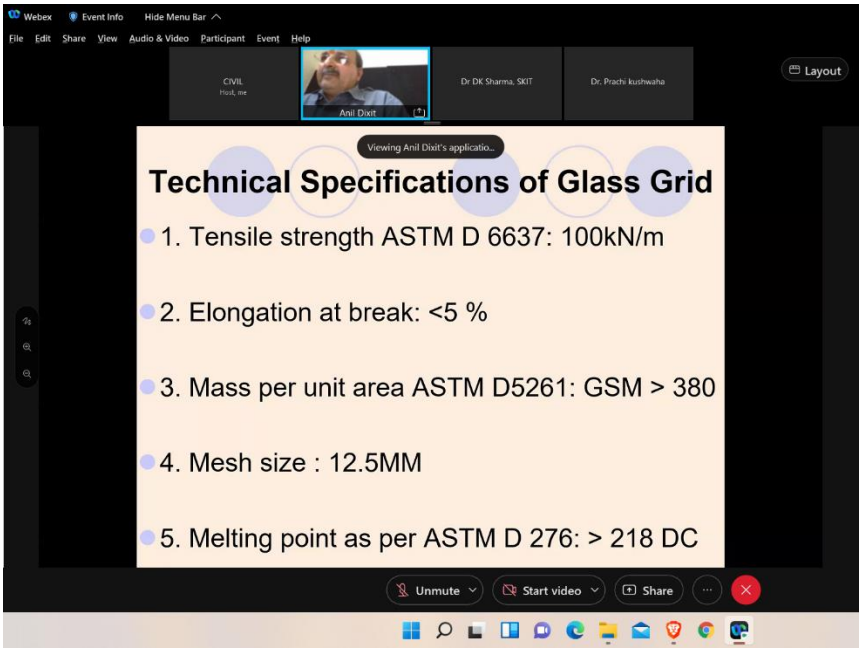
On Day 3, In session 1, Dr. Sarfaraz Khan (University of Florida and Florida Department of Transportation) discussed in detail about the pavement design and evaluation techniques. He explained the case study conducted using Accelerated pavement testing facility (APTF). Second session of the day was conducted by Dr. Nitin Goyal (Principal Scientist and Incharge Mumbai Zonal Centre-NEERI). He elaborated on the impact of transportation on environment by discussing a case study of Mumbai City.



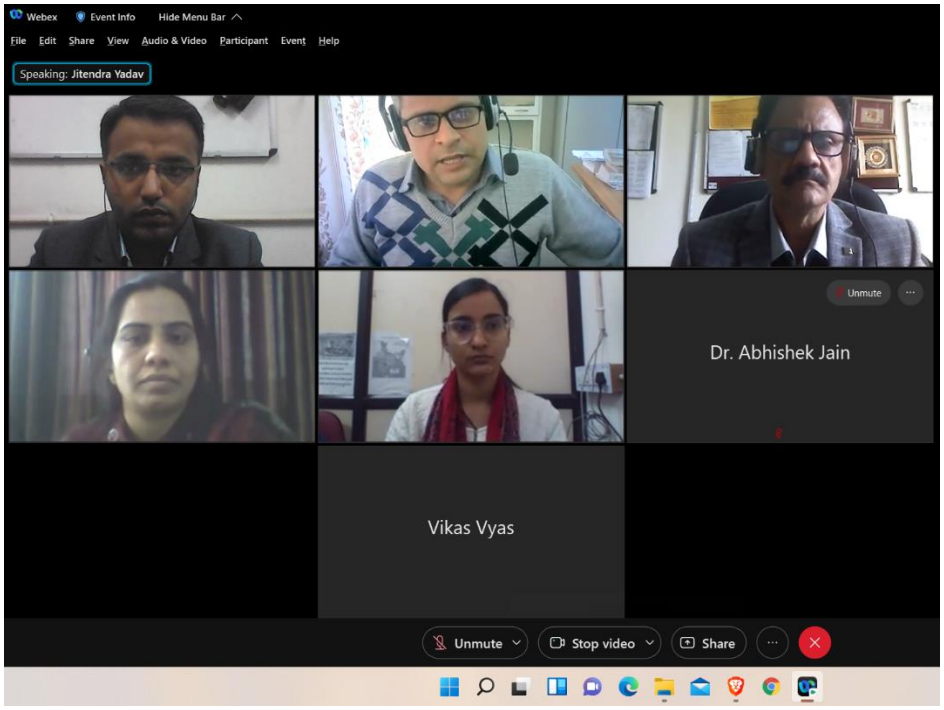


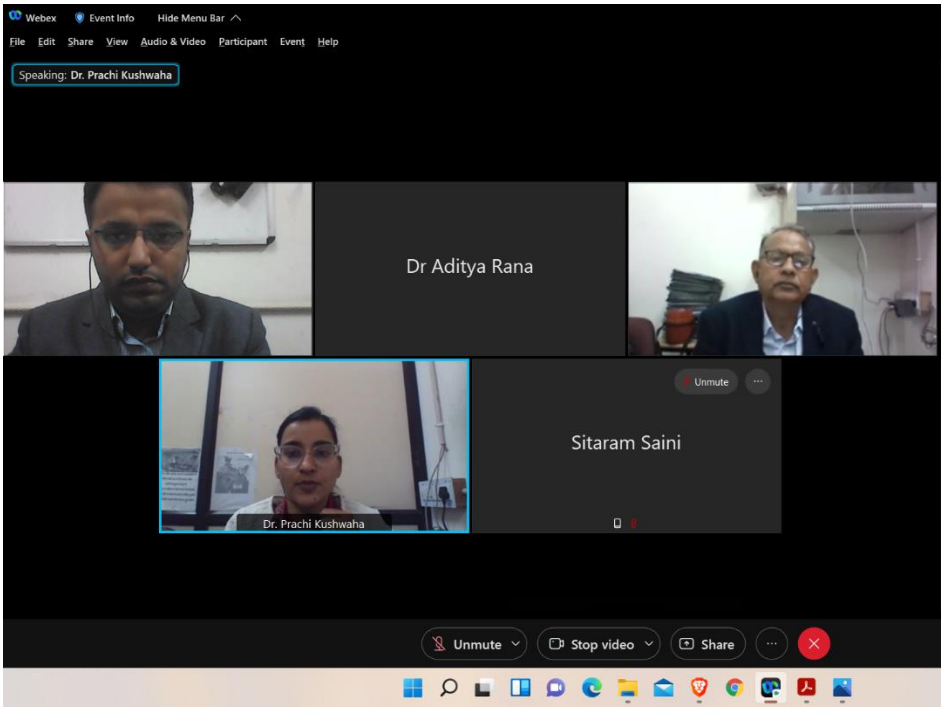
Day 4 started with session of Dr. Pijush Samui (Associate Professor-NIT Patna). He briefed the participants about the use of artificial intelligence in civil engineering. He also told the audience that this is one of the emerging topics and more research is required in this sector. In second session Dr. Anil Dixit (MD-Landmark Testing and Research Laboratory Pvt. Ltd.) delivered a session on basics of geosynthetics. He explained about the tests conducted on geosynthetics before using them in field. He also explained a case study of railway ROB in Sitapura area of Jaipur city.





First session of Day 5 was delivered by Dr. Jitendra Kumar Yadav (Assistant Professor – NIT Hamirpur). He emphasized on utilization of waste materials in construction of road pavements. Last session of the FDP was delivered by Dr. Aditya Rana (Scientist-CIMFR). He delivered his talk on "Current Trends in Control Blasting for Strategic Road and Railways Construction".





A total of 380+ participants from India and abroad registered for the event.