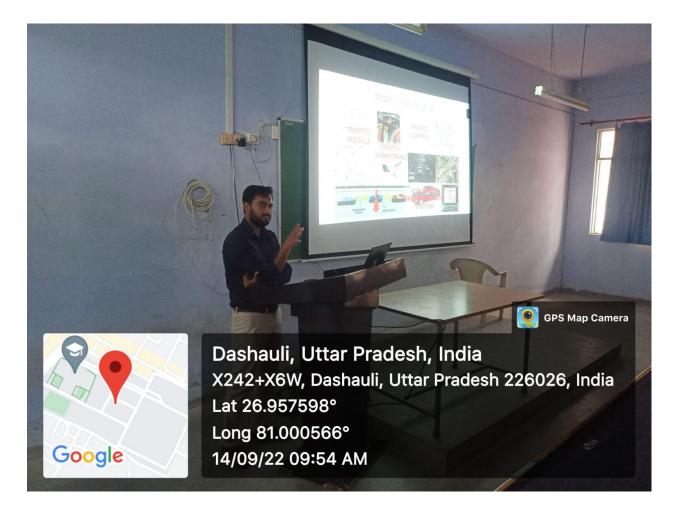# DEPARTMENT OF CIVIL ENGINEERING

## Brief Report on Expert Lecture on Intelligent Transportation System held on 14th September 2022

In compliance with Sustainable Development Goal (SDG 11.2 Safe, Affordable, Accessible and Sustainable Transport Systems) the Departmental Quality Assurance Cell (DQAC) of Civil Engineering Department organized an expert lecture on "Intelligent Transportation Systems" held on 14th September 2022 from 09:30AM – 10:30AM in lecture theater F020, ground floor of Civil Engineering Department, Integral University, Lucknow.

The speaker of the day was Er. Mohd Sadat, transportation engineering expert and an alumnus of Istanbul Technical University, Turkey. He has also worked as an Intern at World Resources Institute, Istanbul.



Currently he is working as Assistant Professor in the Department Of Civil Engineering Integral University His area of interest includes Traffic Network Modelling and Simulation, Traffic Management, Highway and Airport Pavement design, Crash Simulation and Analysis.

Er. Mohd Sadat started with the phrase "About being careful & responsible in terms of traffic sense". He enunciated about the branches of traffic engineering viz highway engineering, railway engineering and airport engineering. He emphasized on the key thrust areas of traffic engineering including Automated Traffic Management Systems (ATMSs), Automated Vehicle

Location (AVL), Car/bike sharing, Driverless cars, e-tolls and Electronic Road Pricing (ERP), Geographic Information System (GIS), Intelligent Transport System (ITS), Smart cars, Vehicle Information & Communication System (VICS).

He elaborated that a broad range of information and communications technologies can be utilized to improve the safety, efficiency, and performance of the transport system. Furthermore, ITS can help reduce congestion, improve mobility, save lives and optimize our existing infrastructure. He also pondered upon the industry insight encompassing the tunnel management systems, incident detection and weather sensors, lane and speed control signs, connected vehicles and car-sharing systems, automated payment mechanisms and intelligent parking management.



Lastly, he concluded that the benefits of ITS is massive in detecting hazards and informing drivers before they are visible; keeping vehicles at a safe distance; allowing vehicles to communicate with infrastructure; route planning and warnings of congestion and accidents. He also elaborated that keeping drivers informed of the local speed limit; monitoring drivers for signs of fatigue; real time service information for public transport users; smart and seamless ticketing solutions; integrating public transport into traffic management systems; improved efficiency has obvious benefits for the environment; & reliable real-time travel and traffic information.

Dr. Neha Mumtaz, Assistant Professor, proposed the vote of thanks at the end of the event.