

SEMINAR ON RECENT ADVANCEMENT IN HIGHWAY AND TRANSPORTATION ENGINEERING

Date: 25/08/2018

Organizing Department: Department of Civil Engineering

Mode: Offline

No. of Participants: 44

Duration of Event: 9:00 am - 11:00 am

Resource Person: Prof. Praveen Kumar (IIT Roorkee)

Coordinator Name: Mr. Mahendra Kumar

Event Venue: Seminar Hall, VGU



Prof. Praveen Kumar interacting with students

Brief Report

The seminar started with an introduction to various transportation systems and their working. Dr. Praveen highlighted the highway engineering discipline branching from civil engineering that involves planning, design, construction, operation and maintenance of roads, bridges, and tunnels to ensure safe and effective transportation of people and goods. Standards of highway engineering are continuously being improved. Highway engineers must take into account future traffic flows, design of highway intersections/interchanges, geometric alignment and design, highway pavement materials and design, structural design of pavement thickness, and pavement maintenance.

The seminar covered following areas:

- Uses of bitumen
- Transportation History
- Recently developed equipments
- Recent advancement highway Engineering

Conclusion

Students learned concepts of geometric design of roads, railways and airports. Geometric design essentially involves physical layout and features of transportation systems. It includes topography i.e. land features and elevation of the road systems. Students understood how to find the most feasible way to work with several constraints associated with design of a transportation

system. GoI is also focussed on development of infrastructure like highways, expressways and freight corridors, which needs more skilled people.