

Overview of Road Safety Engineering

Time Period	Description of Topic	Faculty
Day 1		
09:45-11:15	General Overview <ul style="list-style-type: none"> ➤ Road safety scenario in India ➤ Road accident data and causes overview ➤ 4 Es in road safety ➤ UN Decade of Action for Road Safety ➤ Five pillars of road safety 	Shri A P Bahadur Shri D P Gupta Prof P K Sikdar Shri H M Naqvi Dr Nishi Mittal Dr S M Sarin Dr Dinesh Mohan Dr Piyush Tewari
11:30-13:00	Legal/Contractual Aspects <ul style="list-style-type: none"> ➤ Road safety policies, initiatives & regulatory framework in India ➤ Legal aspects of traffic control ➤ Provisions related to responsibility of departmental engineers and road safety auditors in Motor Vehicle Act 2019 ➤ Role of department engineers and road safety auditors in PPP/EPC projects 	Shri M S Upadhye Shri Rohit Baluja Shri Priyank Bharati Shri Taj Hassan
14:00-17:15	Basic Elements of Traffic Engineering <ul style="list-style-type: none"> ➤ Road, Vehicle & Road User Characteristics ➤ Traffic Volume & Density ➤ Capacity & Level of Service ➤ Speed & Delay ➤ Perception & Reaction Time ➤ Braking & Acceleration Characteristics ➤ Driver Psychology & Behavioral Issues ➤ Basic Principles of Road safety and Access Management 	Shri D. Sanyal Shri Dheeraj Sethi Shri H K Reddy Dr T S Reddy Dr Nizamuddin Dr Abdul Pinjari Shri Tom Mathews Dr Mallikarjuna Dr Amu Shri Mahabir Panda Shri Manoranjan Parida Dr S S Jain
Day 2		
09:45-13:00 & 14:00-17:15	Road Safety Considerations in Planning and Designing of Highways <ul style="list-style-type: none"> ➤ Road Geometry Characteristics <ul style="list-style-type: none"> • Cross-Section • Horizontal Alignment • Vertical Alignment • Sight Distance • Extra Widening • Additional Considerations for Hill Roads ➤ Intersections 	Shri R S Sharma Shri Sandeep Sachdeva Shri Varun Agrawal Shri Rajendra Sothowal Shri Mallikarjuna Rao Shri Uday/ Udaya Kumar L Shri P N Swamy Dr Sewaram Dr S S Jain

	<ul style="list-style-type: none"> • Type of intersections & warrants • Design principles & guidelines • Capacity determination & layout 	
Day 3		
09:45-13:00 & 14:00-17:15	Road Safety Engineering Measures <ul style="list-style-type: none"> ➤ Road Signages ➤ Pavement Marking ➤ Crash Barriers ➤ Other road safety engineering measures ➤ Traffic Calming Measures ➤ Construction Zone Road Safety Measures 	Shri Jacob George Shri Dheeraj/ Dhiraj Sethi Dr Amu Shri Swatanter Kumar Shri A P Bahadur Shri Bharat Anand Shri Mallikarjuna Rao Shri S K Poppli Shri Udaya Kumar L Shri P N Swamy Shri Praveen Kumar
Day 4		
9:45-13:00	Elements of Road Safety Audit <ul style="list-style-type: none"> ➤ Provisions in IRC:SP:88 ➤ Do's & don'ts ➤ Audit Team ➤ Preparation of Checklist & Audit Report etc. 	Shri A P Bahadur Shri D Sanyal Shri S K Poppli Shri Dheeraj Prof P K Sikdar Shri Jacob George Shri Gangopadhyaya Dr T S Reddy Shri Udaya Kumar L Shri P N Swamy Shri Praveen Kumar Shri Mallikarjuna Rao Madam Geetam Tiwari Prof P Vedagiri
14:00-17:15	Road Safety Audit in Design Stage <ul style="list-style-type: none"> ➤ Objectives & Principles ➤ Checklist ➤ Case studies 	
Day 5		
9:45-13:00	Road Safety Audit of Existing Rural Highways/Urban Roads <ul style="list-style-type: none"> ➤ Objectives & Principles ➤ Checklist ➤ Case studies 	
14:00-15:30	<ul style="list-style-type: none"> ➤ Crash Investigations ➤ Black Spot Treatment ➤ Case studies 	Dr Rohit Baluja Shri M Bhuvanesh Bharath Alwar Dr Dinesh Mohan
15:45-17:15	Test, Feedback and Concluding the Programme	