

Xavier University Bhubaneswar
University Dialogue Series (UDS)

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Time: 03.30 pm

Venue: Class Room 12

Design Considerations for Safe Roads

Speaker:

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India has the second largest road network in the world with over 3 million km of roads of which 60% are paved. These roads make a vital contribution to the India's economy. On the whole, the facilities for the road users are not up to the mark, leading to a high toll of the death victims. The rate of accidents severity and fatality in Indian conditions is dreading and alarming. According to the official statistics 141,526 persons were killed and 477,731 injured in road traffic crashes in India in 2014 (NCRB, 2015). However, this is probably an underestimate, as not all injuries are reported to the police.



Various parameters that affect the road safety scenario are built infrastructure, rules and law enforcement, awareness and education, emergency provisions, etc. Individual parameters like day and night time visibility, seasonal conditions, vegetation, illumination, encroachment, parking, etc. are the major cause concern on regional and urban corridors. The factors responsible for poor road safety on regional and urban corridors have been listed and discussed in this research. One of the main

site of traffic conflicts are road intersections and accordingly design and operational parameters of the same has been discussed in this research. Traffic calming and management guidelines are also discussed. It has been observed that all traffic management techniques and guidelines are universally applicable in nature rather smaller towns and cities need a different approach.

The author is presently working upon a research project, titled - 'Traffic management guidelines for small and medium towns', in association with School of Planning and Architecture, New Delhi and Institute of Urban Transport, India.

Key Words: Traffic calming; Vehicular conflict; Small and medium towns; Geometric design.

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