

INDIAN INSTITUTE OF TECHNOLOGY TIRUPATI

भारतीय प्रौद्योगिकी संस्थान तिरुपति

1.	Title of the course	Traffic Engineering and Road Safety
2.	Course number	CE533L
3.	Structure of credits	3-0-0-3
4.	Offered to	PG
5.	New course/modification to	Modification To CE5109/8
6.	To be offered by	Department of Civil and Environmental Engineering
7.	To take effect from	July 2022
8.	Prerequisite	Nil
9.	Course Objective(s): This course would enable the students to understand the basic traffic flow variables, their measurements and relationships. The students will be able to analyze a variety of traffic facilities and evaluate capacity and level of service (LOS). The students will get exposed to design of traffic rotary and traffic signal at intersections. The students will be introduced to road safety audit procedures and practice.	
	Course Content: Traffic stream characteristics; Traffic measurement procedures; Probability and statistics in traffic engineering; Capacity and level of service: uninterrupted flow, interrupted flow; Traffic signs and road markings; Traffic rotary and signal design; Traffic demand and management techniques; Road accidents: causes, scientific investigations and data collection; Statistical methods of analysis of accident data; Safety in road design: operating the road network for safety, highway operation and countermeasures; Road safety audit: principles-procedures and practice, code of good practice and checklists.	
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