Workshop on Traffic Simulation Tools
August 24th - 26th, 2017

Coordinators
Dr. NISHA RADHAKRISHNAN
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Organized by
Centre of Excellence in Transportation Engineering (CETransE)
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Tiruchirappalli - 620 015
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INTRODUCTION
Traffic simulation or the simulation of transportation systems is the mathematical modeling of transportation systems through the application of computer software to effectively plan, design and operate transportation systems. Microsimulation models in traffic simulate the behavior of individual vehicles within a predefined road network and are used to predict the likely impact of changes in traffic patterns resulting from changes to traffic flow or from changes to the physical environment. PTV VISSIM allows you to simulate traffic patterns exactly. As the world's leading software for microscopic traffic simulation, PTV VISSIM handles all road users - motorised private transport, goods transport, rail and road related public transport, pedestrians and cyclists. It displays the road users and their interactions in one model. Scientifically sound motion models provide a realistic modelling of all road users.

OBJECTIVES OF WORKSHOP
The purpose of this workshop is to provide an insight into the advent of latest technologies in Traffic Simulation (PTV VISSIM) in modeling of macroscopic and microscopic parameters of traffic flow and driver behavior modeling, effectiveness of capacity and LoS, and simulation of coordinated signals.

COURSE CONTENT
Simulation of Traffic Systems: Vehicle arrival models; Simulation of longitudinal (car-following) movement behaviour of drivers; Simulation of lateral (lane-changing) movement behaviour of drivers; Simulation of gap-acceptance behaviour of drivers Simulation of pedestrian movement behaviours; developing a traffic simulation framework.


RESOURCE PERSON
Dr. CALEB RONALD M.
Research Scientist
Center for Infrastructure, Sustainable Transportation and Urban Planning (CISTUP)
Indian Institute of Science (IISc)
Bengaluru

TARGET AUDIENCE
The programme is intended for faculty handling Transportation Engineering subjects for UG and PG in AICTE approved Engineering Colleges/Polytechnics, Scientists/Engineers from R&D establishments, Research Scholars and Post Graduate students.

REGISTRATION FEE
Registration fee: Rs.330/- per participant

The registration fee shall be paid by DD drawn in favour of The Director, NIT, Tiruchirappalli – 620015 payable at SBI, NITT Branch (Code - 1617) and can be submitted in person on the first day of the programme.

Participants will be provided lodging in the Institute Guest House/Hostels on payment basis. The participants who do not avail this facility will not be entitled to any rebate. Working lunch and refreshments will be provided during the workshop.

HOW TO REACH NITT?
NIT-T is located on the Tiruchirappalli - Tanjore Highway (NH-67) about 23 kms from Trichy Railway station. One can avail Bus No.128 or Tanjore bound buses from the Central Bus Stand (CBS) to reach NIT. Town buses are also available from Chatram city bus stand.

REGISTRATION FORM

August 24th - 26th, 2017

1. Name:.............................................
2. a) Age:...............b) Gender: Male/Female
3. Qualifications:.............................
4. Designation:.................................
5. Organisation:...............................
6. Address for Communication:........
7. Mobile:..................Land Line:........
8. E-mail:........................................
9. Area of Specialization...................
10. Accommodation required? Yes/No
11. Food Preference: Vegetarian/Non-Vegetarian
12. Payment Details: Amount: Rs. 330/-
DD No:.........................

The information furnished above is true to the best of my knowledge. I agree to abide by the rules and regulations governing the programme. If selected, I shall attend the programme for the entire duration. I also undertake the responsibility to inform the Coordinator sufficiently in advance, in case I am unable to attend the programme.

Place:..................................................
Date:...........................................
Signature of the applicant............................................