

SPONSORSHIP CERTIFICATE

Certified that Dr./Mr./Ms.....
.....
is a faculty/employee/student of this institution and if selected, he/she will be permitted to attend the **Workshop on Traffic Simulation Tools** during **August 24th – 26th 2017**.

This is to certify that this institute is recognized by AICTE.

Place:

Date:

Signature of Head of the Institution
(Principal/Director)

(SEAL)

IMPORTANT DATES

Submission of application form through Post/Email:
18th August 2017

Intimation of Selected Candidates through Email:
21st August 2017

ADDRESS FOR CORRESPONDENCE

Dr. Nisha Radhakrishnan / Dr. V. Sunitha

Assistant Professor

Department of Civil Engineering

National Institute of Technology

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NATIONAL INSTITUTE OF TECHNOLOGY TIRUCHIRAPPALLI

The National Institute of Technology (formerly known as Regional Engineering College) Tiruchirappalli, situated in the heart of Tamil Nadu on the banks of river Cauvery, was started as a joint and co-operative venture of the Government of India and the Government of Tamil Nadu in 1964 with a view to cater the needs of man-power in technology for the country. The institute offers Under graduate programmes in ten branches and Post graduate programmes in twenty five disciplines of Science, Engineering & Technology, Management and Architecture, besides M.S. (by Research) and Ph.D. in all the departments.

DEPARTMENT OF CIVIL ENGINEERING

The Department of Civil Engineering has been one of the oldest and finest departments of the Institute. Right from its inception in 1964, it has been involved in fulfilling its vision to shape infrastructure development with societal focus and thus accomplish its mission by providing professional Civil Engineers who will work for the society. The Department offers an Undergraduate programme in Civil Engineering and four Postgraduate programmes in Transportation Engineering and Management, Structural Engineering, Environmental Engineering and Construction Technology and Management. The B.Tech. and M.Tech. (Transportation Engineering and Management) programme have been recently accredited by NBA for 5 years. The Department also offers M.S. and Ph.D. (Full time & Part time) for aspiring researchers.

CETransE

The Centre of Excellence in Transportation Engineering (CETransE) at NIT Tiruchirappalli was established in the year 2013 by the Department of Higher Education, Ministry of Human Resource Development, and Government of India under the scheme 'Establishment of 50 Centers of Excellence in frontier areas of Science and Technology'. It was established with a vision of creating sustainable transportation technologies and infrastructure for optimal national and societal impact through shaping professional Transportation Engineers, assisting National and State agencies, providing R&D for Industry and offering continuing education. It is carrying out focused research in the areas of Transportation Planning, Intelligent Transportation Systems and Pavement Engineering.

Workshop on Traffic Simulation Tools

August 24th - 26th, 2017



Coordinators

Dr. NISHA RADHAKRISHNAN

Dr. V. SUNITHA

Dr. SAMSON MATHEW

Dr. S. MOSES SANTHAKUMAR

Organized by

**Centre of Excellence in Transportation
Engineering
(CETransE)**

Department of Civil Engineering
National Institute of Technology
Tiruchirappalli - 620 015

Tamilnadu, India

www.nitt.edu

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 behaviour 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.

VISSIM: Introduction – Simulation of uninterrupted traffic flow – Simulation of traffic flow at signalized intersections – simulation of coordinated-signals – Simulation of traffic flow unsignalized intersections.

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.

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REGISTRATION FORM

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