

SPONSORSHIP

Prof./Dr./Mr./Mrs./_____

_____ is an employee of our Department/Institute and his/her application is hereby sponsored. The applicant will be permitted to attend the one week workshop (**in full**) on “Computer Aided Transportation Planning and Traffic Engineering” at CiSTUP, IISc Bangalore from Dec.7th to 11th Dec. 2009

Date: Signature of Sponsoring Authority
Designation:
Official Seal:

_____ The duly sponsored application form should be mailed to:

The Chairman and Workshop Convener,
Centre for infrastructure, Sustainable Transportation,
and Urban Planning (CiSTUP),
Indian Institute of Science
Bangalore – 560012, Karnataka, INDIA
Phone: +91-80-2293-2521/2043
Fax. : +91-80-23468207
Email : office@cistup.iisc.ernet.in

For all technical enquiries contact:

Dr. Ashish Verma, Workshop Co-ordinator,
Assistant Professor, Dept. of Civil Engineering,
Indian Institute of Science
Bangalore – 560012, Karnataka, INDIA
Phone: 080-2293 2329 (O) / 9845375724 (Mo.)
Fax. : 080-2360 0404
Email : ashishv@civil.iisc.ernet.in

ELIGIBILITY

The course is open to middle level technical officers from Traffic Police, BDA, BBMP, BMTc etc.; and faculty of degree level institutions. Participants should be currently involved in works related to transportation planning and traffic engineering/operation in their

organization and should preferably be B.E./B-Tech in Civil Engg./Transportation Engineering or post-graduate in Transportation Engineering or Transportation Planning. Candidates with any other relevant background will also be considered if they are currently involved in works related to transportation planning and traffic engineering/operation. *A limited number of post-graduate student participants will also be allowed.*

Total Number of participants: 50

COURSE FEE

- Two participants from stakeholder organizations of CiSTUP – Nil (Rs.2500/- per additional participant beyond two)
- Participants from Engg. Colleges – Rs.1500/-
- Student participants – Rs.1000/-
- Other participants – Rs. 2500/-

Course fee is to be paid by demand draft only, in favour of “**Registrar, IISc Bangalore**” payable at Bangalore. The fee includes; course material, working lunch, tea etc. All other expenses will be borne by the participants themselves.

COURSE MATERIAL

Workshop notes will be prepared in soft as well as hard copy. The workshop will have lectures as well as demonstrations of various soft computing tools.

IMPORTANT DATES

- Receipt of application form – 20th Oct. 2009
- Intimation of selection/rejection – 30th Oct. 2009
- Submission of Course fee – 15th Nov. 2009

NB: Interested candidates may send an advance copy of the application by **fax/email** duly countersigned by the Head of the Department / Controlling Officer to avoid procedural delay.

ONE WEEK WORKSHOP

ON

Computer Aided Transportation Planning and Traffic Engineering

December 7th – December 11th, 2009

Co-ordinator
Dr. Ashish Verma
Assistant Professor
Department of Civil Engineering

Organized by



**Centre for infrastructure, Sustainable
Transportation, and Urban Planning (CiSTUP)**
Indian Institute of Science,
Bangalore - 560012
Web: <http://cistup.iisc.ernet.in>

BACKGROUND

During the second half of the last century, urban population in India had grown enormously. Also, the number of cities with a population of one million and above has steadily increased from 5 in 1951 to 35 in 2001. This urbanization has brought in its wake its own problems, especially with regard to its impact on the infrastructure facilities. The urban transport system has come under heavy strain and this has adversely affected the quality of life of urban dwellers. Mass transport facilities in the cities are grossly inadequate for providing fast, comfortable, and convenient travel. This has resulted in heavy shift of commuter patronage from mass transportation to private and intermediate transport (leading to an imbalance in the modal split) and consequently, a huge increase in no. of intermediate and private vehicle ownership. The resultant effects are; increased traffic congestion and transport-borne pollution, heavy fuel consumption, poor level of service to the commuter etc.

In such a situation there is an urgent need to apply scientific methods of transportation planning and traffic engineering duly aided by computers, to achieve both long term and short term solutions to the overall problems of traffic and transport in Indian cities. Considering this, a one-week workshop is proposed that will build capacity of the middle level technical officers, as well as other participants, who are involved in such exercise; to learn computer aided transportation planning and traffic engineering, and arrive at transport solutions which are effective and sustainable.

COURSE OBJECTIVE

To build capacity of the middle level technical officers from field organizations, as well as other participants, who are involved in such exercise; to learn computer aided transportation planning and traffic engineering, and arrive at transport solutions which are effective and sustainable.

COURSE CONTENTS

- Introduction to traffic engineering

- Introduction to transportation planning
- Traffic flow theory
- Public Transportation Planning
- Traffic studies
- Traffic control devices
- Traffic management measures
- Traffic capacity and level-of-service
- Traffic simulation
- Use of software like VISSIM, TransCAD etc. for transportation planning and traffic engg.
- Case studies

FACULTY

Faculty members of IISc Bangalore and guest faculty members from other premier Institution/ Organization of the country will deliver lectures.

ABOUT CiSTUP

The Centre for infrastructure, Sustainable Transportation and Urban Planning (CiSTUP) of Indian Institute of Science (IISc) is established in the year 2009 during the centenary celebrations of Indian Institute of Science, with inputs from many visionaries, organizations and has plans and road map to be one of the finest centers of advanced research and training in the field of transportation engineering in India and abroad. The Institute is presently celebrating centenary year to mark one hundred illustrious years of leadership in science, technology, and innovation. The mandate and vision of CiSTUP is to produce knowledge that addresses the unique urban issues specifically on sustainable transportation along with other related topics of infrastructure and urban planning. Further, centre will conduct training programmes, capacity building and also develop expertise and provide complete technological and planning solutions for urban renewal and development programmes related to transportation engineering. Therefore, as per its aim, the centre is promoting outreach / training activities by organizing such workshops.

ONE WEEK WORKSHOP

ON

Computer Aided Transportation Planning and Traffic Engineering

Dec. 07- Dec. 11, 2009

Application Form

1. Name (block letter):
2. Designation:
3. Organisation:
4. Address for communication:

Pin code:
Fax No.

Ph. No.:
E-mail:

5. Highest Academic Qualification:
6. Specialisation:
7. Experience (in years):
(a) Teaching: (b) Industrial:
8. Whether Accommodation required (on paid basis):
Yes/No

Please register me for the workshop on “Computer Aided Transportation Planning and Traffic Engineering” to be held at CiSTUP, IISc Bangalore

Place:
Date:

Signature of the applicant