

**Last date for receipt of application with course fees: 18<sup>th</sup> April 2014**

#### **COURSE FEES:**

University/Engineering college teachers (refundable) Rs 500  
Current Master's/PhD students (nonrefundable) Rs. 3000  
For Industry Professionals (nonrefundable) Rs 5000

#### **ACCOMMODATION**

The candidates are to be provided limited boarding and lodging in IIT hostels as per AICTE norms. Those candidates who wish to stay outside would be paid the equivalent amount as per the approved DA norms (Approximately Rs. 500 per day per candidate.).

#### **FACULTY**

**IIT Delhi** (Civil Engineering and Transportation Research and Injury Prevention Programme, TRIPP):

Prof. G. Tiwari, Dr. K. Ramachandra Rao, Dr. A.K. Swamy

**CSRI-CRRI:** Dr. S. Velmurugan, Dr. E. Madhu, Mr. A. Mohan Rao

**QUT Brisbane:** Dr. A. Bhaskar;  
Other Organizations involved in traffic data collection and instrumentation

#### **SCHEDULE OF DATES**

- Receipt of sponsored copy of application form with caution money: **18<sup>th</sup> April 2014, 05:00 pm (Friday)**  
**24<sup>th</sup> April 2014, 5:00 pm (Thursday)**
- Information on selection of applicants: **21<sup>st</sup> April 2014 28<sup>th</sup> Apr 2014 (on the web site, see below)**

#### **ALL CORRESPONDENCE SHOULD BE ADDRESSED TO:**

Dr. K. Ramachandra Rao  
Course Coordinator  
Department of Civil Engineering  
Indian Institute of Technology Delhi  
Hauz Khas, New Delhi 110016  
Phone: (011) 2659 1235  
Fax: (011) 2658 1117  
E-mail: [tdcm2014@gmail.com](mailto:tdcm2014@gmail.com)  
Home Page: <http://web.iitd.ac.in/~rrkalaga>  
<http://civil.iitd.ac.in/>

#### **QIP Short Term Course**

on

#### **TRAFFIC DATA COLLECTION METHODS AND TECHNOLOGIES (TDCM-2014)**

19<sup>th</sup> to 23<sup>rd</sup> May, 2014

Sponsored under the  
Quality Improvement Programme, IIT Delhi

**Coordinator**  
**Dr. K. Ramachandra Rao**

*Organised by*



**Department of Civil Engineering**  
**Indian Institute of Technology Delhi**  
**Hauz Khas, New Delhi 110 016**

## INTRODUCTION AND OBJECTIVES

For the current fast growing and futuristic traffic demand, there is an urgent need for sophistication and advancement in data collection techniques and methods. Firstly it helps in continuous data collection, improve in accuracy and further to generate most reliable solutions. Secondly it reduces the man power, cost and time. This course introduces you traffic data collection techniques used for planning, design and maintenance of transportation systems and gives you an insight into various intrusive and non-intrusive traffic data collection techniques, its working principles, and limitations. Finally one can understand and appreciate the need of the accurate data collection using various techniques and application of these data for various analysis purpose.

The objectives of the course, primarily targeted for engineering college teachers, are:

- To make you understand about data collection need
- To introduce you various data collection techniques
  - Based on Point sensors
  - Based on Space sensors
  - Based on Mobile sensors
- To introduce you Software's, tools involved in data collection
- To make you familiar with the use and application of these tools and techniques for various transportation problems

## COURSE CONTENTS:

- Introduction to intrusive and non-intrusive data collection techniques
- Data collection methods and analysis for basic traffic characteristics
- Data collection methods for public transport and non-motorized traffic
- Data collection techniques for road design and maintenance
- Advanced data collection technologies for macroscopic and microscopic traffic stream parameters
- Introduction to video image processing systems
- Introduction to Bluetooth and Wi-Fi based traffic data collection systems

## ELIGIBILITY AND REGISTRATION

The course is open to engineering college/University teachers sponsored by their respective institutes. Participants involved in related field will be preferred.

The teachers sponsored by their respective institutions (the colleges must be recognized by AICTE) are required to send the registration form, duly sponsored, along with a bank draft of Rs. 500/- as caution money. Selected teachers will be provided to and fro single AC-3 tier class railway fare by the shortest route as per AICTE norms. *List of selected candidates will be available on the coordinator's home page.* Candidates are requested to see the details regarding accommodation in the next paragraph overleaf.

## REGISTRATION FORM

### SHORT TERM QIP COURSE ON TDCM

19<sup>th</sup> to 23<sup>rd</sup> May, 2014

1. Name: Mr./Ms./Dr
2. Designation:
3. Postal address (including e-mail & Mobile No.):
4. Educational Qualification:
5. Professional Experience:
6. Accommodation Required? Yes/No

The applicant is sponsored for the above course:

A bank draft of Rs\*.....  
(Rupees.....  
.....only) in favor of "Registrar, IIT Delhi",  
No. .... dated .....drawn on  
.....is enclosed as  
caution fee.

\* Rs. 500/- as caution money for participants sponsored by engineering colleges recognized by AICTE.

Date: \_\_\_\_\_ Signature of the candidate

Place: \_\_\_\_\_  
(Signature of the sponsoring authority with seal)