

Short Term Course
on
**Recent Advances in Highway Design and
Construction**
(December 15 - 19, 2014)

Sponsored under the
Quality Improvement Programme, IIT Delhi
at

Department of Civil Engineering
Indian Institute of Technology Delhi



Coordinator

Dr. Aravind K. Swamy,

Department of Civil Engineering,
Indian Institute of Technology Delhi

Fax: +91-11-2659-1117; Tel: +91-11-2659-1191

akswamy@civil.iitd.ac.in

Learning Objectives

To familiarize participants with recent advancements related to pavement design such as testing/modeling asphaltic and geo materials, key factors to be considered in pavement design, pavement design approaches, recent advances in traffic surveys, and planning/policy issues to be considered during geometric design of highway. The course will be thought by professors/scientists from various IIT's/CRRRI who have extensive experience in this area.

Course Content

1. Mechanistic characterization of soil, aggregate and bituminous materials,
2. Modeling behavior of soil, aggregate and asphaltic materials and its relation to pavement design
3. Computation stress-strain, displacement fields in pavement layers using advanced numerical techniques,
4. Interrelationships between environment, traffic loading with pavement performance,
5. Accelerated and non-destructive evaluation of mixtures and pavements,
6. Fundamentals of traffic surveys and demand modeling,
7. Policy and planning issues.

Who can Attend?

The participants for this course are expected to be from one of the following categories.

- (a) Faculty teaching in various government funded and private engineering colleges recognized by AICTE,
- (b) Students currently pursuing Master's/ PhD in the areas of pavement engineering and transportation engineering,
- (c) Industry professionals working in fields associated with highway design and construction (Limited seats subject to availability).

The teachers [category (a)] sponsored by their respective institutions 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. Masters/ PhD students [category (b)] have to send an endorsed certificate regarding current student status along with the registration form.

Accommodation and Allowance

The teachers [category (a)] are to be provided limited boarding and lodging in IIT hostels as per AICTE/QIP cell norms. Those teachers who wish to stay outside would be paid the equivalent amount as per the approved DA norms.

Upon request, Master's/ PhD students [category (b)] would be provided limited boarding and lodging in IIT hostels. However, cost of boarding and lodging has to be paid by student participants directly to respective hostels.

Course Fee

- | | |
|--|---------|
| (a) University/Engineering college teachers (refundable) | Rs 500 |
| (b) Current Master's/PhD students (nonrefundable) | Rs 3000 |
| (c) For Industry Professionals (nonrefundable) | Rs 5000 |

Instructors

Prof. Geetam Tiwari (IIT Delhi)
Prof. Animesh Das (IIT Kanpur)
Dr. Promod Kumar Jain (CSIR-CRRI)
Dr. Kalaga Ramachandra Rao (IIT Delhi)
Dr. Kumar Neeraj Jha (IIT Delhi)
Dr. Abhijit Ganguli (IIT Delhi)
Dr. Arun Kumar (IIT Delhi)
Dr. Aravind Krishna Swamy (IIT Delhi)

Schedule of Dates

Last date for receipt of registration form with caution money: **31/Nov/2014**

Finalization of list of participants: **1/December/2014**

Registration will be on first-come-first-served basis. Receipt of registration form will be confirmed through email on regular basis. The list of confirmed participants will be updated on coordinator's webpage (<http://web.iitd.ac.in/~akswamy/>) regularly.

Last date for sending registration form and DD: 31/November/2014

REGISTRATION FORM

**Recent Advances in Highway Design and Construction
(December 15 - 19, 2014)**

Name:	
Designation:	
Organization:	
Address:	
Email:	
Phone:	
Mobile:	
Fax:	
Fee amount* :	
Demand Draft no :	
Drawn on (bank):	
Do you need hostel accommodation at IITD?	YES / NO
Signature of applicant	

*Fees: Demand draft should be made in favor of "Registrar IIT Delhi"

Please send your registration form and demand draft to the following address:

Dr. Aravind K. Swamy
Department of Civil Engineering
IIT Delhi,
Hauz Khas New Delhi – 110016.