TEQIP Short Term Course on
Sustainable Urban Transport: Design of Road Infrastructure and Facilities
February 15 to 17, 2019

Course coordinators
Dr. Swati Maitra
Dr. Sudeshna Mitra

Organized by:
Ranbir and Chitra Gupta School of Infrastructure Design and Management
Civil Engineering Department
Indian Institute of Technology Kharagpur
Kharagpur 721 302, West Bengal

THE COURSE

For the development of sustainable urban roads, it is important to provide rational design of the various components of road infrastructure and facilities. In this context, there is a need to have an understanding about several features of urban road infrastructure, including motorized and non-motorized transport facilities and design of different types of pavements with optimal use of materials. Safety being an important issue, it is now addressed in all stages of road development. This course will provide a detail and overall orientation of the design of various components of urban road infrastructure and facilities along with the safety and sustainability considerations. The guidelines given in relevant IRC codes will be covered in detail. The following topics will be covered in the course

- Overview of components of urban road infrastructure & facilities
- Design of flexible and rigid pavements
- Design of white topping and non-conventional pavements
- Materials for sustainable road infrastructure
- Grade-separated and Multi-modal facilities
- Pedestrian and bicycle infrastructure
- Bus stop and parking facilities
- Safety issues, appurtenances & safe design examples
- Sustainability considerations for urban roads

FACULTY

Resource persons will be from IIT Kharagpur. A few experts from industries may also be invited.

VENUE FOR LECTURES

Lectures will be held in the Seminar Hall, RCG School of Infrastructure Design and Management, Twin Science Block, IIT Kharagpur.

LECTURE NOTES AND CERTIFICATE

All the lecture notes and the presentation files will be provided to the participants. All participants will also be given the TEQIP Short Term Course Participation Certificate.

ELIGIBILITY FOR THE COURSE

Candidates with Master degree in Civil Engineering/Transportation Engineering/Infrastructure / Architecture and /or working / teaching in TEQIP/non-TEQIP Colleges are eligible for the course. Practicing Engineers from Construction and Consultancy Firms, Government and Public Sectors, Scientists/Engineers from R&D Establishments with the relevant background are also welcome for the course. Masters students and research scholars of Civil/ Transportation/ Architecture/ Infrastructure Engineering are encouraged to participate in the course.

ACCOMMODATION

All participants (TEQIP and Industry) will be provided accommodation, food and local hospitality in the Technology Guest House, IIT Kharagpur on twin sharing basis during their stay in the campus for the course. Accommodation can also be arranged for other participants(Non TEQIP and Students) within IIT Kharagpur campus on separate payment basis during their stay for the course .

APPLICATION DEADLINE

The deadline for application and fee payment for all participants is February 07, 2019.

COURSE FEE

The course registration fee for the participants are mentioned below.

*Faculty of **TEQIP institutions** (inclusive of accommodation & food)*	**Nil**
*Participant from **Industry/Govt. and Public Sector Agencies** (inclusive of accommodation & food)*	**12500/-**
*Faculty of **Non-TEQIP institutions** (excluding accommodation & food)*	**5000/-**
***Students from TEQIP/ non-TEQIP institutions** (excluding accommodation & food)*	**2000/-**

All fees are to be received through online payment gateway for applying online. For Industry applicants unable to pay online; fees can be paid in the form of Demand Draft/NEFT in favour of "**CEP-STC", IIT, Kharagpur**, **BANK A/C NO. 95562200002955, Syndicate Bank, SRIC,IIT Kharagpur, IIFSC: SYND0009556, SWIFT: SYNBINBB120**. Sponsored candidates may also apply directly to the course coordinators along with necessary registration fees. No refund of registration fee will be made in case of withdrawal of the candidate.

HOW TO APPLY

Participants should apply online through CEP, IIT Kharagpur. Using the link:
 https://erp.iitkgp.ac.in/CEP/courses.htm   using the following procedure:

1. Sign-Up
2. Verify your email-id (link will be sent to your e-mail)
3. Login
4. Edit Profile(Fill up all the mandatory fields, upload photo and signature)
5. Click on 'APPLY NOW' button.
6. Upload your pdf format id-card (if necessary).

An e-mail will be communicated from Principal Coordinator/Convenor/Organiser, IIT Kharagpur to the shortlisted applicants stating the payment procedure. Then he/she can open the mail and subsequently is redirected to IIT Kharagpur Payment Gateway page by clicking on the Fee Payment option after login at https://erp.iitkgp.ac.in/CEP/secure/courses.htm

COURSE COORDINATORS:

Dr. Swati Maitra, Course Coordinator
Assistant Professor, RCG School of Infrastructure Design and Management
Indian Institute of Technology Kharagpur
Kharagpur 721 302, West Bengal
Email: swati@iitkgp.ac.in, swati@infra.iitkgp.ac.in
Phone: (03222) 304946(O), 91 9434741236 (M)

Dr. Sudeshna Mitra, Co-Coordinator
Associate Professor, Department of Civil Engineering
Indian Institute of Technology Kharagpur
Kharagpur 721 302, West Bengal
Email: sudeshna@civil.iitkgp.ac.in
Phone: (03222) 283400 (O), 91 9475884524 (M)