## Course Outline

In an unforeseen event of fire in an urban built environment, it is important to protect the occupants, property, and restore functionality. Passive measures to control fire are achieved by following guidelines, codes, and standards during the design process. The use of appropriate building materials is also important due to their flammability properties. Active control is required for large-scale and higher occupancy areas. Along with the design of urban built forms, evacuating occupants in case of fire is crucial. An evacuation plan should be in place with appropriate wayfinding. Training occupants to respond to fire alarms is also important in case of a fire. Smoke poses a major limitation during evacuation, and thus controlling smoke spread through design and mechanical means must be adopted. Evacuating people before the spread of both fire and smoke is desirable. This course will provide an overview of fire safety measures for different types of built urban areas and occupancies, from multilevel facilities like hotels and hospitals to industrial areas. Structural safety to prevent collapse will also be addressed.

### Note:

✓ Soft-copy E-certificate shall be provided after successful completion of the course

✓ PDF copy of the lectures will be provided

## Centre of Excellence in Urban Planning & Design
### Department of Architecture & Regional Planning

### Coordinators

**Dr. Sumana Gupta**
+91 9433729054 | sumana@arp.iitkgp.ac.in

**Dr. Shankha Pratim Bhattacharya**
+91 9474602101 | spb@arp.iitkgp.ac.in

### Guests

Eminent professors and Technical experts from renowned institutions involved in the field of Fire-safety Engineering.

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## Program Fee

Faculty, Professionals, Students, Research Scholars

### INR 2000/-*
(*including GST)

## Program Schedule

3-day ONLINE course

### 7 - 9 February 2025

**Timings (IST)**

7th Feb (evening only):  5:30 PM - 7:30 PM
8th & 9th Feb (full day): 10 AM - 5 PM
Online meeting link will be provided later

### Last date of registration
**6th February 2025**

## Who will benefit (Eligibility)

**Faculty Members** in Architecture, Civil Engineering, Urban Planning, Interior design; **Professionals** in Industry and Research Organizations; **Practicing** Architects, Interior designers, Urban Planners; **Students-** Undergraduate, Postgraduate, Research Scholars in Architecture, Planning, Civil Engineering, Interior design

**How to Apply:** Use the link below **or** scan the QR code
*https://erp.iitkgp.ac.in/CEP/courses.htm*

Sign Up → Login → Profile Fillup → Choose a Program → Apply Now

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**CENTRE OF EXCELLENCE IN URBAN PLANNING & DESIGN IIT KHARAGPUR**

Centre of Excellence in Urban Planning & Design
Department of Architecture & Regional Planning

IIT Kharagpur

*presents*

A Short-Term Course
On

# Awareness of Fire Safety in an Urban Built Environment

*under*

Continuing Education Programme
IIT Kharagpur

3 days
7 - 9 February 2025

## Coordinators

**Dr. Sumana Gupta** is currently working as Associate Professor in the Department of Architecture and Regional Planning at IIT Kharagpur since 2013. She completed her Master's degree and Doctoral Degree from the same Institute in 2008 and 2012 with a special interest in transportation planning and service quality evaluation of railway stations. Prior to this she worked for fourteen years both as a professional architect and later as a Lecturer in a Government Polytechnic College. During her professional exposure as an architect she was involved in various large-scale architectural projects. Currently she teaches basic courses and advanced courses like Tall Building design & services and Building Acoustics at the undergraduate level. She has offered online courses under NPTEL currently running on Building Materials & Composites and Architectural Acoustics. Shortly, a course under Swayam portal on Fire Safety in Buildings will be offered through media coverage. She has also lectured and organised Short Term Courses under the Continuing Education Programme of IIT Kharagpur.

**Dr. Shankha Pratim Bhattacharya** is an Associate Professor in the Department of Architecture and Regional Planning at IIT Kharagpur. He graduated in Architectural Engineering from Regional Engineering College, Calicut (presently NIT Calicut) and earned his Masters in Structural Engineering and PhD on "Modeling of Building Structure under Seismic Excitation" from Birla Institute of Technology, Mesra. With over twenty years of teaching experience, his research includes Building Physics, Thermal Comfort, Building Energy Modelling, Earthquake-resistant structural systems, Vulnerability and Disaster Risk Assessment. He has developed the "Structural System" course under NMEICT and created NPTEL courses on "Architectural Acoustics" and "Structural Systems in Architecture." Dr. Bhattacharya has published over ten technical papers in international journals, conducted one GIAN course, and four Short Term Courses at IIT Kharagpur. In 2015, he received the "Eminent Architectural Engineer" award from the Institution of Engineers (India).

## Programme

❑ **Introductory session:**

To be delivered by the coordinators

*(Dr. Sumana Gupta & Dr. Shankha Pratim Bhattacharya)*

❑ **Guest Speaker sessions:**

- Prof. Arghya Deb, Department of Civil Engineering, IIT Kharagpur
- Dr. Arup Das, Department of Architecture & Regional Planning, IIT Kharagpur
- Mr. Dravesh Yadav, Department of Civil Engineering, IIT Gandhinagar

❑ **Coordinators' Lectures:**

- Dr. Sumana Gupta
- Dr. Shankha Pratim Bhattacharya

❑ **Expert Talk:**

An in-depth discussion with Technical Expert from the West Bengal Fire Services Department, Govt. of West Bengal.

❑ **Question & Answer session:**

Join us for an interactive Q&A session where participants can ask questions and engage with our expert panel

❑ **Evaluation & Valedictory session:**

Participants will be evaluated prior to a valedictory session, where you can share your thoughts on the programme.

## Frequently Asked Questions

**What is the duration of the course?**
The course will take place over three days, from **7th to 9th February, 2025**. The first day (Friday, Feb 7) will run from 5:30 PM to 7:30 PM IST, enabling participants to join after work or college. The following two days will have sessions from 10 AM to 5 PM IST, including one-hour breaks.

**What is the mode of the course?**
The course will be conducted entirely in **ONLINE** mode via **Google Meet**, consisting mostly of live sessions and a few recorded materials. The joining link will be shared later.

**What are the prerequisites for enrolling in the course?**
There are no specific prerequisites, but a basic understanding of fire safety and acquaintance with urban spaces would be beneficial.

**How do I apply for the course?**
Visit the CEP website (*https://erp.iitkgp.ac.in/CEP/courses.htm*) or scan the given QR code. Fill out your profile details (one-time sign-up process), and then log in. **Choose** the course from the dashboard. and submit the requisite **fees** online. Further details on the process are explained on the CEP website.

**What is the fee structure for the course?**
The total fee for the course is **INR 2000** (including GST) for all participants.

**Are there any discounts or scholarships available?**
Currently, there is no scheme for any discounts or scholarships.

**What technical requirements (hardware & software) do I need to participate?**
A stable internet connection, a computer (equipped with a webcam & microphone), or a smartphone / tablet is sufficient. Additionally, it is preferred if you have basic Office software (such as MS Office) installed.

**What if I miss a live session?**
All sessions will be recorded, and you will have access to the recordings to catch up. However, it is recommended that you attend as many live sessions as possible where you may directly discuss your doubts/opinions and have them clarified by the experts.

**Will I receive a certificate upon completion?**
Yes, participants will receive a **soft-copy** e-certificate of completion after fulfilling the course requirements.

**How can I contact the course coordinators for support?**
You can reach out via **email** or via **phone numbers of the coordinators**. Their contact information is mentioned on the first page of this handout.

**Is there a community or networking opportunity for participants?**
Participants can directly communicate through the online meeting platform for discussions during the Q&A sessions. However, there are **no separate online forums / groups** for the purpose.

**Can I get a refund if I decide to withdraw from the course?**
Application Fees, once paid, are **non-refundable**.