

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

Program Fee

Students , Research Scholar – Rs 1000 /-
Faculty , Professionals – Rs 2000 /-
(* including GST)

Program Schedule

20th Jun (Evening) : 5:30 PM- 7:30 PM
21st and 22nd (Full day) : 10AM – 5 PM
(Online meeting link will be provided)

Who will benefit:

Faculty Members In Architecture , Civil Engineering ,Urban Planning ,Interior Design .
Professionals In Industry And Research Organization , Practicing Architects .
Students : Undergraduate , Postgraduate , Research Scholar 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>



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

**Department Of Architecture & Regional Planning
IIT KHARAGPUR**



**3 Days Online Course
20 – 22 June 2025**

Presents

A short term course on

AWARNESS OF FIRE SAFETY IN URBAN BUILT ENVIRONMENT

Under

Continuing Education Program



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 five years both as a professional architect and later as a Lecturer in a Government Polytechnic. Based on her professional exposure as an architect she was involved in various large-scale architectural projects. Currently she teaches core courses and advanced courses like Tall Building design & Codes 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.



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 "Modelling 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, Earthquake-resistant structural systems, Vulnerability and Disaster Risk Assessment. He has developed the "Structural Systems" course under NMEICT and created NPTEL courses on "Architectural Acoustics" and "Structural Systems in Architecture". Dr. Bhattacharya has published over 90 research and technical papers in journals and conferences, conducted over 12 GIAN courses, and 15 Short Term Courses at IIT Kharagpur. In 2015, he received the "Eminent Architectural Engineer" award from the Institution of Engineers (India).



Guests :

- Eminent Professors and Technical Experts from Renowned Institution Involved in the Field Of Fire Safety Engineering
- An in depth discussion with Technical Expert from west Bengal fire services department



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Frequently Asked Questions:

- **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.
- **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.
- **Is there a community or networking opportunity for participants?**
Participants can directly communicate through the online meeting platform's chat feature 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.

• 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 program

Coordinators :

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Dr. Shankha Pratim Bhattacharya

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**SCHEDULE OF EVENTS FOR THE SHORTTERM COURSE 20th to 22nd June 2025
'AWARENESS ON FIRE SAFETY IN URBAN BUILT ENVIRONMENT '**

Friday 20th June			
Time	Topic	Speaker	Mode
17:00 – 17:20	Inauguration & Introduction of participants	Dean, CEP, Advisor/Chairman COE-UPD	
17:25 - 18:25	Introduction to the subject: fire safety in Urban Environment	Dr. S. Gupta, IIT KGP	Online
18:30 - 19:30	Achieving Fire safety following codes and guidelines	Dr. S.P. Bhattacharya, IIT KGP	
Saturday 21st June			
9:15 – 10:15	Fire, smoke and egress planning Hospitals, Highrises, Auditoriums, underground metro stations, Airports	Dr. S. Gupta IIT KGP	Online
10:20 – 11:20	Forest Fire & Regulatory framework for building plan sanction	Dr. Ronald Debbarmar, NDMA	
11:25 - 12:25	Sharing of real-life experiences of fire incidents through case studies	Mr. Indrajit Chadda, Mumbai Port Authority	Online
12:30 – 1:30	Fire and hazardous material movement in urban areas	Dr. Arup Das IIT KGP	Online
LUNCH BREAK			
15:00 – 17:00	Introduction lecture and demo of use of different equipment to extinguish fire through videos.	Mr. Akhil Kar, Technical Experts Fire & Safety Engineering Institute Haldia	Online
Sunday 22nd June			
9:45 - 10:40	Fire and behaviour of Structural elements (steel & concrete)	Prof. Argha Deb IIT KGP	Online
10:45 – 11:40	Researches in Façade Fire in Urban areas	Dr. Dravesh Yadav IIT GN	Online
11:45 – 12:40	Need for Fire Safety Audit of Existing Buildings	Dr. S. Gupta IIT KGP	Online
12:45 – 1:30	Discussion/Experience/presentation on any fire incidence from known/ own city	Dr. S.P. Bhattacharya, Ms. Anindita Priyadarshini & Participants	Online
LUNCH BREAK			
15:00 – 15:45	PARTICIPANT EVALUATION THRU ONLINE QUIZ	Dr. S.P. Bhattacharya & Dr. S. Gupta	Online
15:45 – 16:30	Feedback, Valedictory and vote of thanks	Dr. S.P. Bhattacharya & Dr. S. Gupta	Online