



No. DCE- 007(205)/

Date: 06/08/2023

Announcement of Short Course on 'Fire Detection and Alarm System' 29-30 September and 01 October 2023 Organized by Directorate of Continuing Education (DCE), BUET.

Dear Sir/Madam,

We have the pleasure to inform you that a 3 days short course on '**Fire Detection and Alarm System**' is going to be organized by the Directorate of Continuing Education (DCE), on 29-30 September and 01 October 2023.

The course aims at the basic requirements of fire detection and alarm system, selection and installation of fire detection and alarm systems, integration of fire detection and alarm systems, maintenance of fire detection and alarm systems, survey and inspection of fire detection and alarm system, basic drawings and design principal of fire detection and alarm systems. The flyer for the above-mentioned short course is attached herewith.

Highly qualified, professionally trained, reputed and experienced resource persons in the related areas, having ample theoretical and practical knowledge with current information has been invited to conduct this short course.

The registration fee for this short course is **TK. 15000/-** (Taka fifteen thousand only) as per person to be paid in advance, through Pay-Order or Demand draft, in favor of "**Director, BRTC, BUET**". Course registration fee may also be electronically deposited at Savings Account No. 4404034173888, Account Name: Director, Directorate of Continuing Education (DCE), Sonali Bank Ltd., BUET Branch, Dhaka. Course Fee includes all costs of printed course materials, exams & certificates, etc., and excludes VAT & TAX. **Registration Deadline is 20th September 2023.**

For further information, please contact to DCE office, BUET, Cell: **01303183113**, Tel: **58610738**, PABX. 55167100 Ext. 7848, E-mail: info@dce.buet.ac.bd. You may also visit our official website: <https://dce.buet.ac.bd>

We would appreciate it if you could kindly participate and/or nominate the concerned official(s) from your esteemed organization in this proposed short course.

Thank You

Prof. Dr. Mohammad Nasim Hasan

Director, Directorate of Continuing Education (DCE)
Bangladesh University of Engineering and Technology
Mail: info@dce.buet.ac.bd

For registration in this course,

Please scan below





DIRECTORATE OF
CONTINUING EDUCATION
BANGLADESH UNIVERSITY OF ENGINEERING & TECHNOLOGY

Short Course

Fire Detection and Alarm System

29-30 September and 01 October 2023 (3 days)

Location

3rd Floor, Institute Building, BUET



CONTINUING EDUCATION
Path to Excellence



CONTACT

Director, Directorate of Continuing Education (DCE)

BUET, Dhaka-1000,

Tel: 02 58610738, PABX: 02 55167228-57 ext. 7848, 7452

Cell: 01303183113. Email: info@dce.buet.ac.bd

About DCE

DCE established in **1995 at BUET**, a platform for decentralized and adaptive learning to bridge the gap between Professionals and Academicians, promotes pedagogical development with a combined experience of Academicians and Professionals and offers distance training opportunities. So far, **199** short courses/training workshops have been offered to serve more than **10,000** professionals.

September 2023						
SUN	MON	TUE	WED	THU	FRI	SAT
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
October 2023						
SUN	MON	TUE	WED	THU	FRI	SAT
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

SHORT COURSE OUTCOMES

At the end of this course, participants are expected to learn and subsequently apply knowledge on:

- Understand the general requirements of Fire Detection and Alarm System in different occupancy classes according to BNBC – 2020.
- Understand the basic principle of smoke and heat generation and propagation.
- Identify different components of Fire Detection and Alarm System and determine their use.
- Designing fire detection and alarm system for different occupancy classes as per NFPA – 72.
- Servicing and maintaining existing fire detection system,
- Carry out testing and commissioning and prepare necessary documents.
- Effectively face audits of fire detection system.
- Understand the requirements of Bangladesh Fire Service and Civil Defense on fire detection system.

RESOURCE PERSON

Experts from both **Academic and Professional** domains will conduct the proposed short course.

For details please visit: dce.buet.ac.bd

DURATION

29 – 30 September and 01 October 2023: (3 days)

(Friday, Saturday and Sunday)

LANGUAGE

English and Bangla

CERTIFICATE

A certificate of attendance will be provided.

Short Course On

Fire Detection and Alarm Systems



29 - 30 September and 01 October 2023

BUET, Dhaka

Organized by

**Directorate of Continuing Education (DCE)
Bangladesh University of Engineering and Technology
Dhaka-1000**

For Registration in this course, Please scan below



Fire hazards in Bangladesh are a recurring phenomenon with overwhelming loss of life and property. Among the different fixed fire protection systems available, the Standpipe and Hose System is one of the most widely used fire protection systems employed in almost all the occupancies in Bangladesh. However, an understanding of the design aspects, installation, maintenance, and testing of the Standpipe and Hose systems and the associated components such as the Fire pump is extremely important for the proper functioning of these systems during a fire event.

This course has been developed to address both the **fundamental and advanced aspects of fire and fire management systems**. The main aim of this workshop is to **provide a sound understanding and working knowledge** of fire detection and alarm systems in relevant **industries and commercial establishments**.

WHO SHOULD ATTEND?

This course is for Engineers/Technical Personnel employed in the fire protection management/industry eager to learn new skills and therefore enhance career opportunities. Experienced Technical Personal can use the course to top up and validate existing skills and knowledge.

The following participants will get the most benefit from attending this short course:

- Practicing MEP Engineers
- Fire Safety Professionals
- Safety and Security Professionals
- Health & Safety Managers
- Compliance Officers
- Fire Safety Equipment Manufacturers/Importers

PROGRAM OVERVIEW

Contents of the workshop are:

- Basic Requirements of Fire Detection and Alarm System (FDAS) as per BNBC -2020
- Basic Principals of Fire Detection Process
- Smoke, Heat and Radiant Energy Generation and Propagation
- Designing Fire Detection and Alarm System
- Circuit Classes, Pathway Survivability and Circuit Supervision
- Emergency Control Function and Supervision Interfaces
- Audible and Visual Notification Appliance
- Power Supply Requirements
- RSC Audit Requirements
- Inspection, Testing and Maintenance
- FDAS Drawing and Documentation Requirements

VENUE

Directorate of Continuing Education (DCE), 3rd Floor, Institute Building, BUET, Polashi, Dhaka-1000. (Near Dr. M A Rashid Student Hall, BUET and BUET Gymnasium)

REGISTRATION FEE

BDT **15,000/-** per Person (Tk. Fifteen Thousand Only)

The fee will cover printed lecture instructions, workshop kits, comprehensive materials, refreshments, certificates, etc.

PAYMENT

Registration Fee is to be paid in advance payable through Pay Order/Demand Draft (DD) in favor of **Director, BRTC, BUET**, or electronically deposited at - Savings **Account No. 4404034173888**,

Account Name: Director, Directorate of Continuing Education (DCE) Sonali Bank Ltd., BUET Branch, Dhaka.

Seats are limited and the selection procedure will be First Come First Serve basis.

REGISTRATION FORM

Short Course On Fire Detection and Alarm Systems DCE, BUET

Please complete the registration form in BLOCK LETTERS and return it to the address overleaf.

Name:

Affiliation:

Company Name:

Address:

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Cell Phone:

Email:

Payment:

Pay Order/ Demand Draft (DD)

Online Banking

Please attach the original copy of the payment.

Details of Pay Oder/Demand Draft:

Signature:

Date:



Short Course on Fire Detection & Alarm System

Organized by: DCE, BUET
29-30 September & 01 October 2023

Program Schedule

Date	Time	Event/Topic and Resource Person	
29.09.2023 (Friday)	08:30 AM- 09:00 AM	Registration	
	09:00 AM- 09:15 AM	Inauguration	
	09:15 AM- 10:45 AM	Lecture 1: Basic Requirements of Fire Detection & Alarm System. <ul style="list-style-type: none"> Difference between Code and Standards Definitions as per BNBC – 2020 and NFPA -72 Concept of Fire Prevention Goal of Fire Detection Component of Fire Detection System Basic Requirements of FDAS as per BNBC -2020 	Prof. Yeasir Arafat P.Eng., FIEB, SMIEEE
	10:45 AM- 11:00 AM	Tea Break & Networking	
	11:00 AM- 12:30 PM	Lecture 1 [Cont...]: Basic Requirements of Fire Detection & Alarm System.	Assoc. Prof. Yeasir Arafat P.Eng., FIEB, SMIEEE
	12:45 PM- 02:30 PM	Lunch & Prayer Break	
	02:30 PM- 05:30 PM	Lecture 2: Basic Principals of Fire Detection Process <ul style="list-style-type: none"> Signs of Fire Smoke Generation and Propagation Heat Generation and Heat Transfer Electromagnetic Energy Generation from Fire 	Professor Dr. Md. Ashiqur Rahman Department of Mechanical Engineering at BUET
	05:30 PM- 06:00 PM	Tea & Prayer Break	
06:00 PM- 07:30 PM	Lecture 3: Designing Fire Detection System <ul style="list-style-type: none"> Smoke Detectors Heat Detectors 	Engg. Zia Uddin Ahmed Director, Banmech Limited.	
30.09.2023 (Saturday)	09:00 AM- 10:30 AM	Lecture 3 [Cont...]: Designing Fire Detection System <ul style="list-style-type: none"> Multi Criteria and Multi Sensor Detector 	Engg. Zia Uddin Ahmed Director, Banmech Limited.
	10:30 AM- 10:45 AM	Tea Break & Networking	
	10:45 AM- 12:45 PM	Lecture 4: Designing Fire Detection System <ul style="list-style-type: none"> Radiant Energy Detectors Other Initiating Devices Signaling Line Types & Supervision – Circuit Classes, Pathway Survivability and Circuit Supervision 	Engg. Parvez Mahmood Director, ICEL Private Limited



**Short Course on
Fire Detection & Alarm System**

**Organized by: DCE, BUET
29-30 September & 01 October 2023**

Program Schedule

Date	Time	Event/Topic and Resource Person	
30.09.2023 (Saturday)	12:45 PM- 02:30 PM	Lunch & Prayer Break	
	02:30 PM- 03:30 PM	Lecture 4 [Cont...]: Designing Fire Detection System <ul style="list-style-type: none"> Emergency Control Function and Supervision Interfaces 	Engg. Parvez Mahmood Director, ICEL Private Limited
	03:30 PM- 05:30 PM	Lecture 5: Designing Fire Detection System <ul style="list-style-type: none"> Audible Notification Appliance Visual Notification Appliance 	Engg. Musfiqul Azad Principal and Technical Committee member of NFPA
	05:30 PM- 06:00 PM	Tea & Prayer Break	
	06:00 PM- 07:00 PM	Lecture 5 [Cont...]: Designing Fire Detection System <ul style="list-style-type: none"> Power Supply Requirements 	Engg. Musfiqul Azad Principal and Technical Committee member of NFPA
	07:00 PM- 08:30 PM	Lecture 6: Inspection, Testing & Maintenance <ul style="list-style-type: none"> Maintenance Inspection and Audit of FDAS Testing Procedure followed by RSC for Inspection, Testing and Maintenance of FDAS 	Lt. Col. Siddik Md. Zulfiqar Rahman BSC, PSC. Managing Director, Fire Service Welfare Trust
01.10.2023 (Sunday)	02:30 PM- 05:30 PM	Lecture 6: FDAS Drawing Requirements	Fazlul Bari CEO, Optimum Engineer Ltd (OEL)
	05:30 PM- 06:00 PM	Tea & Prayer Break	
	6:00 PM	Certificate Award Ceremony Chief Guest: Prof. Dr. Satya Prasad Majumder Honorable Vice-Chancellor, BUET	

*** Break time may be adjusted based on the prayer timetable.**



Short Course on Fire Detection & Alarm System

Organized by: DCE, BUET
29-30 September & 01 October 2023

COURSE COORDINATORS



Yeasir Arafat

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Dr. Md. Ashiqur Rahman

Professor
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Course Content:

This course has been developed with a combined effort from project management professionals and academicians and is specially designed to provide the participants with comprehensive knowledge of project management considering contemporary challenges in the context of Bangladesh by mastering modern tools, techniques, and strategies.

Program Overview:

Contents of the workshop are:

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Learning Outcomes:

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