



# Bharath

**INSTITUTE OF HIGHER EDUCATION AND RESEARCH**

(Declared as Deemed - to - be - University under section 3 of UGC Act 1956)



**BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY**

No.173, Agharam Road, Selaiyur, Chennai , T.N - 600 073.

Ref: BIHER/BIST/Civil//Spl/2022

Date: 14/06/2022

## CIRCULAR

Many a times, the defined skill sets that are being imparted to students today with Programme Specific Objectives in educational institutions become redundant sooner than later due to rapid technological advancements. It is important for higher education institutions to supplement the curriculum to make students better prepared to meet industry demands as well as develop their own interests and aptitudes.

Hence a Value Added Course is offered by Department of School of Civil and Infrastructure Engineering, Bharath Institute of Higher Education & Research. The course offered is **Certificate Program in Fire and Safety** with the duration of 30 hours (Two hour per day) and commences from **24/06/2022 to 28/07/2022**.

**Eligibility:** Course is open for UG Students for Department School of Civil and Infrastructure Engineering.

### **Registration:**

The registration form which is available in the university website should be duly filled by the participants and to be submitted to the Coordinator at least 5 days before the commencement of course.

### **Contact:**

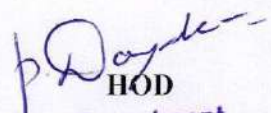
Mr.T.P.Meikandaan

Associate Professor / School of Civil and Infrastructure Engineering.,

Course Coordinator

Bharath Institute of Higher Education & Research.


Email id: [meikandaan.civil@bharathuniv.ac.in](mailto:meikandaan.civil@bharathuniv.ac.in)

  
HOD  
Head of the Department  
Department of Civil Engineering  
Bharath Institute of Higher Education & Research  
(Declared as Deemed to be University U/S 3 of UGC Act, 1956)  
Selaiyur, Chennai-600 073. INDIA

**SCHOOL OF CIVIL & INFRASTRUCTURE ENGINEERING**  
**VALUE ADDED COURSE – CERTIFICATE PROGRAM IN FIRE AND SAFETY**  
**STUDENTS NAME LIST**

Sl.NO	Reg No	Name of the students	E-Mail ID
1	U14CE034	EPURU BHARATH	<a href="mailto:barathreddypuru@gmail.com">barathreddypuru@gmail.com</a>
2	U14CE035	BOLLARAM VAMSHI	<a href="mailto:vamshibollaram15@gmail.com">vamshibollaram15@gmail.com</a>
3	U14CE036	CHALANGDIAM.K.PYRTUH	<a href="mailto:chalangdiam15@gmail.com">chalangdiam15@gmail.com</a>
4	U14CE037	CHANDRAMOHAN .S	<a href="mailto:saran6984@gmail.com">saran6984@gmail.com</a>
5	U14CE038	CHARLES MESTAN	<a href="mailto:s.charlesmestans@gmail.com">s.charlesmestans@gmail.com</a>
6	U14CE039	CHEMIKI LYWAIT	<a href="mailto:chemiklywait@gmail.com">chemiklywait@gmail.com</a>
7	U14CE040	DAR TUFAIL GULL	<a href="mailto:dartufailgul@gmail.com">dartufailgul@gmail.com</a>
8	U14CE041	DEBASHISH CHATTERJEE	<a href="mailto:debasish.chatterjee.146@gmail.com">debasish.chatterjee.146@gmail.com</a>
9	U14CE042	MOIRANGTHEM DEBESHWOR SINGH	<a href="mailto:debeshwor2011@gmail.com">debeshwor2011@gmail.com</a>
10	U14CE043	DEEPAK KUMAR VERMA	<a href="mailto:u14ce043ma@gmail.com">u14ce043ma@gmail.com</a>
11	U14CE044	DEEPAN .K	<a href="mailto:akdeepan05@gmail.com">akdeepan05@gmail.com</a>
12	U14CE045	DHARAM GURUMAHENDRA	<a href="mailto:saiguru951@gmail.com">saiguru951@gmail.com</a>
13	U14CE047	DILIP KUMAR THAKUR	<a href="mailto:superkingdilip10@gmail.com">superkingdilip10@gmail.com</a>
14	U14CE048	DILIPKUMAR.C.	<a href="mailto:dilip.dk9696@gmail.com">dilip.dk9696@gmail.com</a>
15	U14CE049	DINGNUNG MODI	<a href="mailto:dingnungmodi@gmail.com">dingnungmodi@gmail.com</a>
16	U14CE050	EBALARI P.SUCHIANG	<a href="mailto:ebalarisuchiang@gmail.com">ebalarisuchiang@gmail.com</a>
17	U14CE051	EEMANI LAKSHMI PRASANNA	<a href="mailto:lakshmilach31@gmail.com">lakshmilach31@gmail.com</a>
18	U14CE052	ESRARALI.MOHAMMAD.SOHAIL	<a href="mailto:searchingsohail43@gmail.com">searchingsohail43@gmail.com</a>
19	U14CE053	FYZAN ASHRAF	<a href="mailto:faizamashraf1493@gmail.com">faizamashraf1493@gmail.com</a>
20	U14CE054	FLORA KEZI .A.K	<a href="mailto:kezikannappa@gmail.com">kezikannappa@gmail.com</a>
21	U14CE055	T GANAPATHY	<a href="mailto:ganpathythehun@gmail.com">ganpathythehun@gmail.com</a>
22	U14CE056	GANESH.B	<a href="mailto:ganeshraj1996@gmail.com">ganeshraj1996@gmail.com</a>
23	U14CE057	GARETH RAYNER CHALLAM	<a href="mailto:garethchallam@gmail.com">garethchallam@gmail.com</a>
24	U14CE058	GAURI SHANKAR	<a href="mailto:gaurishankar1994@gmail.com">gaurishankar1994@gmail.com</a>

SL.NO	Reg No	Name of the students	E-Mail ID
25	U14CE059	GAUTAM KUMAR	<a href="mailto:gautam.8968@gmail.com">gautam.8968@gmail.com</a>
26	U14CE060	GAUTAM KUMAR	<a href="mailto:gautamnnkumar95@gmail.com">gautamnnkumar95@gmail.com</a>
27	U14CE061	GENDAN NORBU	<a href="mailto:gendannorbu7@gmail.com">gendannorbu7@gmail.com</a>
28	U14CE062	GOVINDHARAJ .B	<a href="mailto:gbrraj1996@gmail.com">gbrraj1996@gmail.com</a>
29	U14CE063	GUTHULA SUNIL KUMAR	<a href="mailto:sunilkumar.guthula@gmail.com">sunilkumar.guthula@gmail.com</a>
30	U14CE065	G HARISH KUMAR REDDY	<a href="mailto:gangireddyharish@gmail.com">gangireddyharish@gmail.com</a>

  
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Department of Civil Engineering  
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**Value Added Course**  
**Certificate Program in Fire and Safety**

S.No.	Syllabus Details	No. of Lecture hrs	Time	Date	Lecture name
1	Introduction, Understanding fire: How and why people die in fires	1	03.00 pm to 04.00 pm	24.06.22	Mr.T.P.Meikandaan
2	Human behaviour in fire: How people behave in emergencies	1	03.00 pm to 04.00 pm	26.06.22	Mr.T.P.Meikandaan
3	Legislative requirements	1	03.00 pm to 04.00 pm	27.06.22	Mr.T.P.Meikandaan
4	The Regulatory Reform (Fire Safety) Order 2005, Fire hazards & risks, Plan Drawing, Brief look at drawing to scale	1	03.00 pm to 04.00 pm	28.06.22	Mr.T.P.Meikandaan
5	Fire risk assessment structure and layout	1	03.00 pm to 04.00 pm	29.06.22	Mr.T.P.Meikandaan
6	Means of escape principles: Basic requirements and what to look for, Fire signage: National requirements, Fire Alarms & fire detection	1	03.00 pm to 04.00 pm	30.06.22	Mr.T.P.Meikandaan
7	Basic components, and testing, Emergency lighting	1	03.00 pm to 04.00 pm	01.07.22	Mr.T.P.Meikandaan
8	Emergency Plans & Staff Training, Highly Flammables & LPG, Fire fighting equipment requirements	1	03.00 pm to 04.00 pm	03.07.22	Mr.T.P.Meikandaan
9	Fire resisting construction & compartmentation	1	03.00 pm to 04.00 pm	04.07.22	Mr.T.P.Meikandaan
10	Active fire safety for building protection	1	03.00 pm to 04.00 pm	05.07.22	Mr.T.P.Meikandaan
11	The process of fire risk assessment	1	03.00 pm to 04.00 pm	06.07.22	Mr.T.P.Meikandaan
12	Fire risk assessment recording and review procedures	1	03.00 pm to 04.00 pm	07.07.22	Mr.T.P.Meikandaan
13	The potential for pollution arising from fires	1	03.00 pm to 04.00 pm	08.07.22	Mr.T.P.Meikandaan

14	Measures to prevent and reduce fire pollution	1	03.00 pm to 04.00 pm	10.07.22	Mr.T.P.Meikandaan
15	Safety in scaffolding – an overview, Investigation of scaffold accident	1	03.00 pm to 04.00 pm	11.07.22	Mr.T.P.Meikandaan
16	Safety in excavations, trenching and shoring	1	03.00 pm to 04.00 pm	12.07.22	Mr.T.P.Meikandaan
17	Road work and piling operation	1	03.00 pm to 04.00 pm	13.07.22	Mr.T.P.Meikandaan
18	Concrete and concert foams and shoring	1	03.00 pm to 04.00 pm	14.07.22	Mr.T.P.Meikandaan
19	Work permit systems, Job safety analysis	1	03.00 pm to 04.00 pm	15.07.22	Mr.T.P.Meikandaan
20	Accident prevention methods, Safety committee	1	03.00 pm to 04.00 pm	17.07.22	Mr.T.P.Meikandaan
21	Safety management systems, Laws related to safety	1	03.00 pm to 04.00 pm	18.07.22	Mr.T.P.Meikandaan
22	Recognition of possible fire sources and emergency procedures in the event of a fire	1	03.00 pm to 04.00 pm	19.07.22	Mr.T.P.Meikandaan
23	History of fires, types of detecting devices and extinguishing agents and systems	1	03.00 pm to 04.00 pm	20.07.22	Mr.T.P.Meikandaan
24	National Fire Protection Association and Occupational Safety and Health Administration standards	1	03.00 pm to 04.00 pm	21.07.22	Mr.T.P.Meikandaan
25	Workplace inspections, Measuring and reporting	1	03.00 pm to 04.00 pm	22.07.22	Mr.T.P.Meikandaan
26	Developing and effective safety culture	1	03.00 pm to 04.00 pm	24.07.22	Mr.T.P.Meikandaan
27	Building an incident free workplace, Removing obstacles to safety, Safety and accountability	1	03.00 pm to 04.00 pm	25.07.22	Mr.T.P.Meikandaan
28	Developing safety habits in the workplace, Fire Protection and Analysis	1	03.00 pm to 04.00 pm	26.07.22	Mr.T.P.Meikandaan
29	Hose, Types of hose, Characteristic, Frictional lose, Material used	1	03.00 pm to 04.00 pm	27.07.22	Mr.T.P.Meikandaan

30	Cause and prevention of mildew, Causes and prevention of shock, Causes and prevention of rubber acid	1	03.00 pm to 04.00 pm	28.07.22	Mr.T.P.Meikandaan
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*P. Dayakar*  
HOD

**Head of the Department**  
**Department of Civil Engineering**  
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Topic: Certificate Program in Fire and Safety

Type of Course: value added course / UG

School of Civil and infrastructure Engineering

Pre-Requisites: Management Concepts for Civil Engineers

Course Duration: 30 hours (24 Jun' 22)

Intended Audience: Civil Engineering Students

Industries Applicable To: All companies that deal with the civil infrastructure development

Coordinator: Mr.T.P.Meikandaan

## Objective:

- a) Fire and Safety management courses have gained huge popularity among students in recent times.
- b) One of the prime factors responsible for this trend is the availability of ample amount of job opportunities in front of fire and safety professionals..
- c) Governments around the World have emphasized the need of work place safety. Chemical factories, refineries, manufacturing plants, energy firms, gas plants etc are not devoid of danger!
- d) There's a need to ensure the safety of personnel working at such places. This is where fire and safety professionals come handy.

## **COURSE OUTLINE:**

The program assists the candidates in qualifying themselves to become good safety personnel through an extensive training and study session. With the increase in risk factors, the demand scale for more safety personnel has also raised. Candidates who wish to pursue engineering in the same field, opting for Diploma in Fire and Safety Management course can prove to be beneficial. Though the number of scopes in this sector is related to disaster management and security, the opportunities will considerably widen with time.

As the scope of this course is gradually increasing based on the demand of firefighting personnel, more and more candidates are opting to earn a Diploma in Fire and Safety Management after the completion of 12th grade. Candidates after passing out from the program have wide scope in the department of armed forces, MNCs and public sectors, industries, construction firms, Oil companies etc. hired as safety supervisors and trainers, wherever the risk of accidents and need of security measures are more.

The overall goal of the program is training the students in getting a broader view of the situation at hand and being able to appropriately deal with conditions of fire, preventing accidents and ways of controlling mishaps. They are also given a realistic approach to the study by conducting mock drills, in order to showcase them the actual measures which need to be taken care at the time of the fire.





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**SCHOOL OF CIVIL & INFRASTRUCTURE ENGINEERING**

**VALUE ADDED COURSE – CERTIFICATE PROGRAM IN FIRE AND SAFETY**

**Date: 24.06.2022**

**Year/Sem: III /V**





# Bharath

INSTITUTE OF HIGHER EDUCATION AND RESEARCH

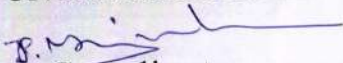
DEEMED-TO-BE UNIVERSITY (as per UGC Act, 1956)

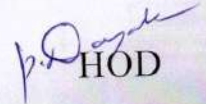


Bharath Institute of Higher Education and Research

## CERTIFICATE OF PARTICIPATION

This is to Certify that DEEPAN.K, from Bharath Institute of Higher Education and Research, has participated in value added course on 'Certificate Program in Fire and Safety' presented by Mr. **T.P.Meikandaan.**, Associate Professor, Organized by School of Civil & Infrastructure Engineering, BIHER from 24.06.2022 To 28.07.2022.

  
Coordinator

  
HOD

Head of the Department  
Department of Civil Engineering  
Bharath Institute of Higher Education & Research  
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Selayur, Chennai-600 073. INDIA

VALUE ADDED COURSE

Feedback Form

Event Name: Certificate program in fire and safety

Name of participant: Dilip Kumar . C

1. How useful did you think this event was for you?

(Please circle the appropriate number where 1 = not at all useful and 5 = extremely useful)

1	2	3	4	5 <input checked="" type="checkbox"/>
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2. Value added course is useful and well organized.

<input checked="" type="checkbox"/> YES	NO
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3. Did you receive all the information you required at this Venue?

<input checked="" type="checkbox"/> YES	NO
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4. Would you like to attend any further Training Courses VAC

<input checked="" type="checkbox"/> YES	NO
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*P. D. Jayaraman*  
Head of the Department  
Department of Civil Engineering  
Bharath Institute of Higher Education &  
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Selayur, Chennai-600 073. INDIA