



**ASSOCIATION OF CONSULTING CIVIL ENGINEERS (INDIA)**

**KAKINADA CENTRE**

**CORDIALLY INVITES YOU TO ATTEND THE  
WEBINAR ON**

**FIRE SAFETY IN STRUCTURES**

**BY**

**Dr.RAVI PRAKASH**

ASSISTANT PROFESSOR,IIT JODHPUR

**ON SUNDAY 24TH MARCH 2024,  
11.00AM - 1.00PM**

OFFICE BEARERS

**Er.BADAM SUNDARARAO**

CHAIRMAN

**Er.S.DURGA PRASAD**

SECRETARY

**Er.NALLAM BHASKARARAO**

TREASURER



# PRAGATI ENGINEERING COLLEGE (Autonomous)

# 1-378, ADB Road, Surampalem, E.G.District, A.P. - 533 437  
(Approved by AICTE & Permanently Affiliated to JNTUK, Kakinada & Accredited by NAAC with 'A' Grade)

(Recognised by UGC Under Sections 2 (f) and 12 (b) of UGC act, 1956)

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(Sponsored by Gayatri Educational Society)

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PEC/CE/Circular

Date: 20-03-2024

## CIRCULAR

This is to inform that Association of Consulting Civil Engineers (India), Kakinada centre cordially organizing an online Lecture on “**FIRE SAFETY IN STRUCTURES**” by “**Dr. RAVI PRAKASH, Asst. Prof IIT JODHPUR**” on Sunday 24<sup>th</sup> March, 11Am (IST) Onwards. The respective online link will be shared as follows.

<https://acceindia.webex.com/acceindia/j.php?MTID=m5fbd74e192d3df9b8fd713c4698e82fd>

Sunday, March 24, 2024 11:00 am | 2 hours | (UTC+05:30) Chennai, Kolkata, Mumbai, New Delhi

Meeting number: 25110508778

Password: 12345

All the students and faculty members are requested to utilize this opportunity with your presence.

**HOD-CE**

Copy to...

Dept. Notice Board.

Circulate among Faculty,

Class Rooms of II, III & IV years



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## DEPARTMENT OF CIVIL ENGINEERING

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### WEBINAR Report

### “FIRE SAFETY IN STRUCTURES”

- **Dr. RAVI PRAKASH, Asst. Prof IIT JODHPUR**

Date: 24<sup>th</sup> March, 2024

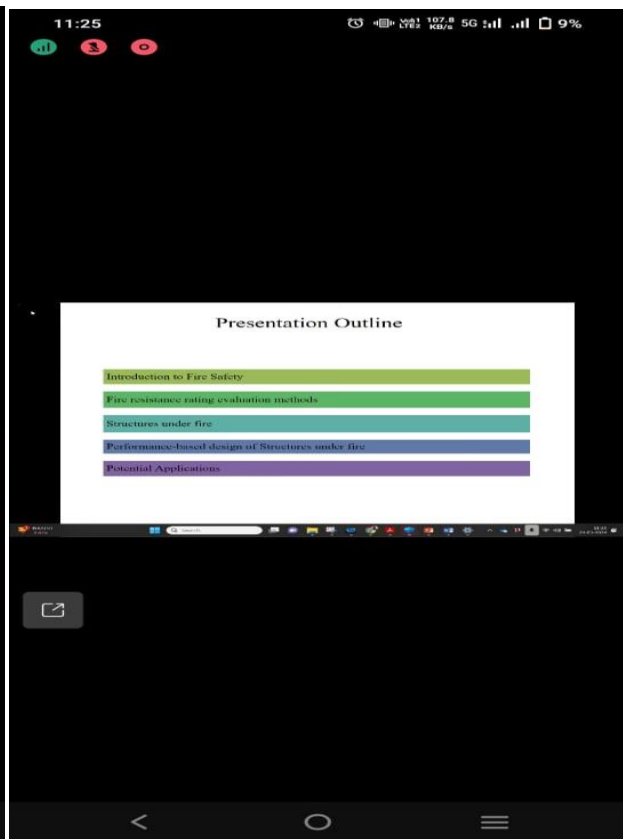
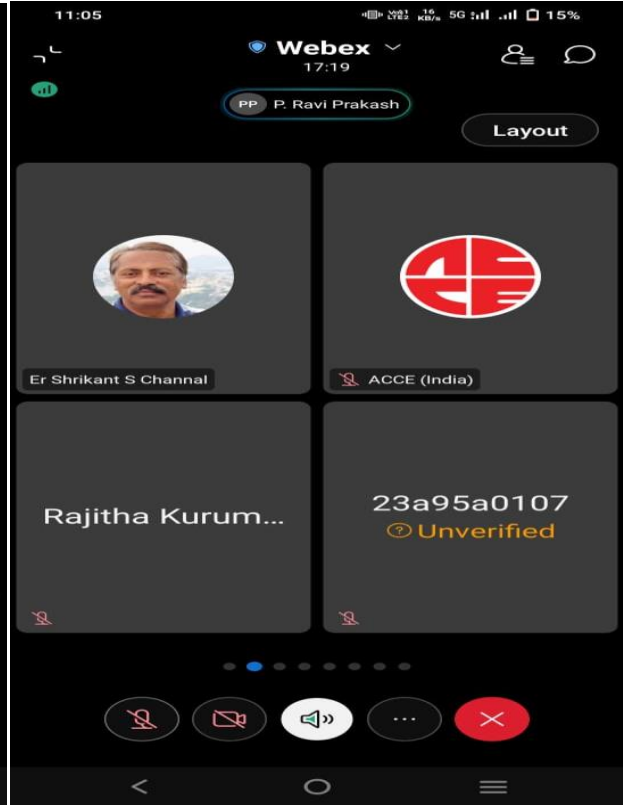
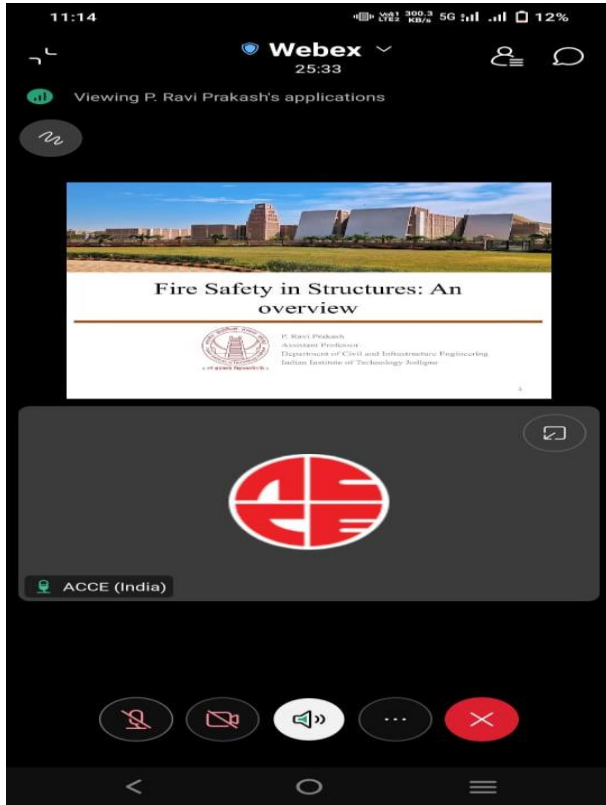
Association of Consulting Civil Engineers (India), Kakinada centre organized a webinar on “**FIRE SAFETY IN STRUCTURES**” by “**Dr. RAVI PRAKASH, Asst. Prof IIT JODHPUR**” on Sunday 25<sup>th</sup> February, 11Am (IST) Onwards. **Dr. RAVI PRAKASH** explains about importance fire safety in buildings, he also explains about occurrence of various mishaps. He also explains various design codes and regulations of fire safety and various fire safety strategies.

The programme was attended by Students, Faculty members, Civil Engineers from various places, private stake holders, policy makers and research scholars. The programme was well received and attended by 60 participants. Participation of 30 students from Pragati Engineering College is so thoughtful and informative.

Some of the important outlines of presentation are.

- 1) Introduction to fire safety
- 2) Fire resistance rating evaluation and methods
- 3) Structures under fire
- 4) Performance based design of structures under fire
- 5) Potential applications

The picture of the event and glimpses of slides presented were mentioned in the report stated.









12:11 47.67 KB/s 5G 74%

PP P. Ravi Prakash

### Numerical modelling of Structures under fire

Quantities known at time  
 $T_n, P_n, v_n, \rho_n, T_n^*$

Choose update time step  
 $\Delta t; t_{n+1} = t_n + \Delta t$

Compute fire temperature  
 at  $T_{n+1}$

Multi-Physics components

Governing PDEs

Multi-physics solver

Converged?

Yes: Accept  $T_{n+1}, P_{n+1}, v_{n+1}$   
 assess spalling and update  $\rho_{n+1}, T_{n+1}^*$

No: Loop back to Choose update time step

12:18 17.55 KB/s 5G 72%

Webex 01:29:59

Viewing P. Ravi Prakash's screen

PP P. Ravi Prakash

### One-way coupling demonstration example

Thermal Analysis

Stress-Strain behaviour

Load vs. Displacement

Thermal Profiles

One-way coupling demonstration example

**DEPARTMENT OF CIVIL ENGINEERING**  
**ACCE (I) STUDENT CHAPTER**  
**LIST OF STUDENTS ATTENDED**

**Event: FIRE SAFETY IN STRUCTURES**

**Date: 24-03-2024**

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