



**PRAGATI ENGINEERING COLLEGE: SURAMPALEM**  
**(Autonomous)**  
**DEPARTMENT OF CIVIL ENGINEERING**

PEC/CE-ACCE(I)/Circular/

Date: 23.09.2025

**CIRCULAR**

This is to inform that Department of Civil Engineering and Association of Consulting Civil Engineers (India), Kakinada centre cordially inviting to attend the webinar on “ **Design Optimisation Techniques in RCC Building Plannig Construction** ” by Er. P. Surya Prakash, Satyavani Projects and Consultants Pvt Ltd on Sunday 28.09.2025 at 11.00 am. Meeting link, number and password will be shared in student groups..

All the students are asked to utilize this opportunity with your participation.

Coordinator, ACCE (I) & IQAC  
( Dr.B.Satyanarayana )

Head of the Dept. of Civil Engg.  
( Dr.B.Satyanarayana )

Copy to:

1. Dept. Notice Board
2. Circulate among faculty
3. Class rooms of II, III & IV years
4. Department file CE-ACCE(I) file



**PRAGATI ENGINEERING COLLEGE: SURAMPALEM**  
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**DEPARTMENT OF CIVIL ENGINEERING**

Dt.30.09.2025

**A Report on “ Design Optimisation Techniques in RCC Building Plannig Construction”**


As a part of a professional society students club activity of Department of Civil Engineering of Pragati Engineering College (A), the ACCE(I) Kakinada center has organized a a webinar for student chapter members of Civil Engineering on “ **Design Optimisation Techniques in RCC Building Plannig Construction** ” on 28.09.2025 from 11.00 AM and members of ACCE(I) student chapter are invited to attend.


Student members of ACCE(I) and interested students from other clubs are also participated. ACCE(I) is a national organization for consulting engineers in India and is the multi-disciplinary engineering professional society.

The following are discussed during the webinar,:

1. **Causes:** Hydraulic transients, also known as water hammer , occur when there is a sudden change in the flow rate or pressure of a fluid in a pipe line or hydraulic system. The resource person has explained about the common causes such as valve closing or opening, pump startup or shutdown and pipe rupture and failure
2. **Analysis:** Analysing hydraulic transients involves understanding the dynamic behavior of the fluid and pipeline system. This can be done using method of characteristics, finite difference methods and computer simulations.
3. **Control:** Controlling hydraulic transients is crucial to prevent damage to pipelines, fittings, and equipment. Strategies include surge tanks or vessels, air chambers pressure relief valves, slow valve operation and surge analysis and design.

The program was attended by Civil Engineering students. Participation of more than 26 students from II, III & IV year Civil Engineering Department made this session successful by their participation . The Department of Civil Engineering of Pragati Engineering College is considered this session as important for students to gain some knowledge through this webinar.

  
Coordinator, ACCE (I)  
( Dr.B.Satyanarayana )

  
Head of the Dept. of Civil Engg.  
( Dr.B.Satyanarayana )

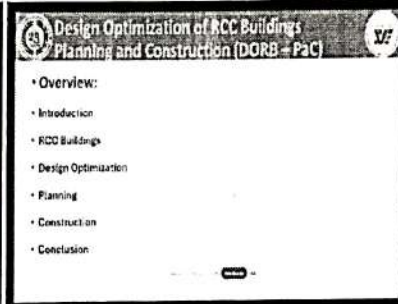
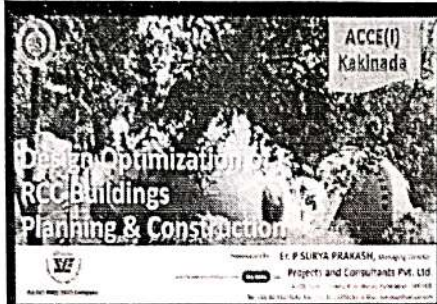


Learning is Supreme Duty

# PRAGATI ENGINEERING COLLEGE: SURAMPALEM (Autonomous) DEPARTMENT OF CIVIL ENGINEERING

Name of the Resource Person: Er.P.Surya Prakash, Satyavani Projects & Consultants Pvt Ltd and Former President ACCE(I)

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



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( Dr.B.Satyanarayana )

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