

GUJARAT TECHNOLOGICAL UNIVERSITY

C. K. PITHAWALLA COLLEGE OF ENGINEERING AND TECHNOLOGY, SURAT (009)

CIVIL ENGINEERING DEPARTMENT

REPORT OF WEBINAR ORGANIZED

Academic Year 2020

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Program was scheduled as per the given details

- Topic : Basic Structural System and Tentative Sizing of Elements - Case Study
- Date :25/05/2020
- Day : Monday
- Venue : Online platform of Cisco WebEx and Face book live streaming
- Name of Speaker : Dr. Jigar K. Sevaliya
- Program Schedule :

Time	Event	Coordinators
10:30 am to 12:30 pm	Webinar	Dr. Priti A. Patel and Mr. Pranav Desai

- Brief Report :
  - Webinar on Basic Structural System and Tentative Sizing of Elements - Case Study was organized by Civil Engineering Department of C.K.P.C.E.T., Surat on 25<sup>th</sup> May 2020,10:30 am onwards. As an expert, Dr. Jigar K. Sevaliya, Professor, CED, SCET, Surat had delivered a session. More than 100 participants had attended this webinar on WebEx and by Face book live streaming. This webinar relevant the fundamental knowledge of structural design with field requirements. Expert had mentored the participant on the path to develop basic understanding of design aspect. He also briefs the participant about how to implicate results avail from design software actually as a field practice. He explained every concept very nicely with graphical support by taking a case study of G+1 storey building. At the end expert had interacted with participants and discussed their query.

PD UP

Pranav Desai (Host) URVI PATEL pritipranay Dr. Jigar Sevalia abhay14081998

# STRUCTURAL ENGINEERING

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## Basic Structural System & Tentative Sizing of Elements – Case Study

**Dr. Jigar Sevalia**  
Professor

Faculty of Civil Engineering,  
Sarvajanik College of Engineering and Technology (SCET),  
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DR. JIGAR SEVALIA

Faculty of Civil Engineering, SCET - SURAT

# STRUCTURAL ENGINEERING

## Case Study

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Leave Stair Dovels  
# 10 @ 4" CC - Main Steel  
# 8 @ 9" C/C - Det. Steel

P.C.C. / GROUND / PLINTH BEAMS LAY OUT PLAN AT GROU

Faculty of Civil Engineering, SCET - SURAT

Dr. Jigar Sevalia

Dr. Jigar Sevalia

Pranav Desai (Host, me)

Dr. Jigar Sevalia

abhay14081998

Chat

what are other limitations of software in designing process?  
from Akbari Ashish A. to everyone: 12:27 PM  
why it's need to provide under reamed piles in this residential case Study??

**STRUCTURAL ENGINEERING**  
Viewing Dr. Jigar Sevalia's a...

**Basic Types of Forces** 18

Axial Force....

Diagram illustrating Axial Force:

- Vertical member: Shows **END LOAD** at the top and **END REACTION** at the bottom. The member is shown in its original state and a shortened state labeled **SHORTENING**.
- Rectangular block: Shows **UNLOADED** and **LOADED** states. The loaded state shows **FLAT FACE** and **UNIFORM DEFLECTION**.

DR. JIGAR SEVALIA

**STRUCTURAL ENGINEERING**  
**THE END** 58

Very Much Thanks

To *Esteemed Audience* for Listening Me

And

To *CED, CKPCET – Surat*

For Giving Me An Opportunity to  
Share My Experiences

DR. JIGAR SEVALIA



**Speaker:**

**Dr. Jigar Kantilal Sevalia**

**Professor**

**Civil Engineering department**

**Sarvajani College Of Engg. &  
Tech. (SCET),Surat**



**LIVE WEBINAR ON**  
**“Basic Structural  
System  
and Tentative Sizing of  
Elements - Case Study”**

**Date :25<sup>TH</sup> MAY 2020**

**10:30AM-12:30PM**



**Civil Engineering Department**  
**C. K. Pithawalla College of Engineering and Technology, Surat**  
**(Affiliated with G.T.U & Approved By AICTE)**