

Webinar on

“ANALYSIS AND DESIGN PARAMETERS IN GEOTECHNICAL ENGINEERING”

Department of Civil Engineering organized an online webinar entitled “**ANALYSIS AND DESIGN PARAMETERS IN GEOTECHNICAL ENGINEERING**”, for the students of Gujarat where in students from Khyati School of Engineering also participated actively. This outcome of the webinar was to gain practical knowledge which was the focus in detail by Industry Expert **Dr. Chandra Bogireddy**.

Aiming to provide an intense training on basics of Geotechnical Engineering Practices and the design parameters in theoretical and practical approach for our diploma students of Civil Engineering Department, It was a two hours session held on **10th July, 2021**.

In webinar **Dr. Chandra Bogireddy** was the Expert from “Vardhaman College of Engineering” Hyderabad, Telangana. He delivered cognitive knowledge in practical and theoretical approach. The objective of this webinar is to help students to understand the real life exposure to practices in site and become an engineer having basics of the latest tools and trending technologies of current and future. This Webinar outline is designed in such a manner that almost no prior knowledge is required to master the practices. Once completed the Webinar successfully, the students are going to have their own idea and clear understanding of how do real time practices and application work in MNC's. During this webinar students can understand about what the Static and Dynamic loading, Types of foundation failures, Shear failure mechanism, Types of the Structures & structure of the soil. At last this webinar is concluded by students QA sessions & thank you speech for the expert.

Few Glimpses of the webinar:

Webinar on "Analysis and Design Parameters in Geotechnical Engineering"

WEBINAR ON
"Analysis and Design Parameters in Geotechnical Engineering"

Moderator
Kashyap Panchal – H.O.D
Khyati School of Engineering
Mobile no: 8074417712
Dixit Patel – Lecturer
Khyati School of Engineering

Date: 07/2021
Time: 10:30am - 11:45am

Scan the QR code to register

Dr. Chandra Bogireddy
C.Eng. A.M.ASCE, S.M.ASCE, M.E.I.,
I.M. I.S.R.M.I.T.B. Tech(C-E), M.Tech (Geo-Tech),
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Hyderabad, Telangana-501218
Email: Har2006chandra@vardhaman.org

Registration link:
<https://forms.gle/wAPWNP223aYj6Y5X8>

E-Certificates will be given to the Participants

Address:
15, Cantonment, Nr. Camp Hanuman Temple,
In-side Military Camp, Ahmedabad Cantonment,
Shahibaug, Ahmedabad, Gujarat 380003

KHYATI SCHOOL OF ENGINEERING

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10:08 | zsi-utkn-gtj

Dr. Chandra Bogireddy is presenting

Types of Triaxial Tests

Step 1
Under all-around cell pressure σ_c

Step 2
Shearing (loading)

Is the drainage valve open?

yes no

Consolidated sample Unconsolidated sample

Drained loading Undrained loading

CD test UU test CU test

11:18 | zsi-utkn-gtj

Dr. Chandra Bogireddy is presenting

Deep Foundations

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graph TD
    Foundations --> Shallow["Shallow (Df ≤ B)"]
    Foundations --> Deep["Deep (Df > B)"]
    Shallow --> Footings
    Shallow --> Raft["Raft/Mat"]
    Footings --> Spread["Spread Footing"]
    Footings --> Strap["Strap Footing"]
    Footings --> Combined["Combined Footing"]
    Footings --> Isolated["Isolated Footing"]
    Footings --> Strip["Strip / Continuous Footing"]
    Raft --> Rectangular
    Raft --> Trapezoidal
    Deep --> DeepFooting["Deep Footing"]
    Deep --> Pile
    Deep --> Pier
    Deep --> Caissons["Caissons (Wells) Foundations"]
  
```

80

11:33 | zsi-utkn-gtj

People

- Add people
- M.Veerapathan
- MINESH OD
- MR S NAVEEN KUMAR
- Nayan Joshi
- Pranesh Mysore
- Prasanth Reddy
- PRETHAM REDDY
- Saiyed Yusuf
- Shalikh Ifra
- Shivansh Patel
- somi reddy
- sowmya srinivasan
- Ujjwal Ved
- Umang Shah
- 24 others
- You

Dr. Chandra Bogireddy is presenting

Under-reamed piles

(a) Single under-reamed pile (b) Multi-under-reamed pile

Under-reamed piles

The load capacity of an under-reamed pile may be found in much the same way as for driven piles [Murthy, 1977 and IS: 2911 (Part I) - 1974]

This is for a single under-reamed pile

$$Q_{up} = Q_{eb} + Q_{sf} = q_b \cdot A_b + f_s \cdot A_s$$

For a multi-under-reamed pile

$$Q_{up} = q_b \cdot A_b + f_s \cdot A_s + \bar{f}_s \cdot \bar{A}_s$$

Where, q_b = unit point-bearing capacity of a bulb,
 f_s = unit skin-friction,
 A_b = area of section of the bulb,
 A_s = surface area of the embedded pile shaft.

\bar{f}_s = unit frictional resistance between soil and soil
 \bar{A}_s = surface area of a cylinder of diameter b_u and height equal to the distance between the centres of the extreme bulbs.

11:36 | zsi-utkn-gtj

People

- Dr. Chandra Bogireddy
- Kashyap Panchal
- Pranesh Mysore
- Anil Pandey
- Ujjwal Ved
- Nayan Joshi
- Umang Shah
- Akshay Awlani
- Saiyed Yusuf
- Hardik Parmar
- Adarsh H.S
- yathankrishna ku...
- ankamarao thiru...
- MR S NAVEEN KUM...
- Jinit Patel
- ditit patel
- Krunal Patel
- Karthikeyan G
- sowmya srinivasan
- 12 others
- You

Dr. Chandra Bogireddy is presenting

Choice of Foundation Type and Preliminary Selection

Fig: Pile foundations based on soil condition

11:36 | zsi-utkn-gtj

Dr. Chandra Bogireddy, Kashyap Panchal, Praneesh Mysore, Anil Pandey, Ujjwal Ved, Nayan Joshi, Umang Shah, Akshay Awtani, Saiyed Yusuf, Hardik Parmar, Adarsh H.S, yathamkrishna ku..., ankanmarao thiru..., MR S NAVEEN KUM..., Jimit Patel, dait patel, Krunal Patel, Karthikayan G, sommya srinivasan, 12 others, You

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Dr. Chandra Bogireddy is presenting

Civil Engineering Apps

Local apps

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7

11:39 | zsi-utkn-gtj

Dr. Chandra Bogireddy, Kashyap Panchal, Praneesh Mysore, Anil Pandey, Ujjwal Ved, Nayan Joshi, Umang Shah, Akshay Awtani, 23 others, You

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