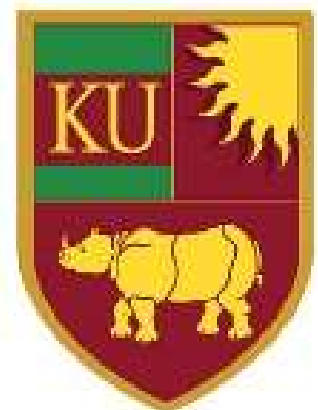


**WEBINAR ON "INFLUENCE OF GEOLOGICAL
AND GEOENGINEERING PARAMETERS IN
ASSESSMENT OF STABILITY OF SLOPES IN
OPEN PIT COAL MINES"**

11th AUGUST 2022

**DEPARTMENT OF CIVIL
ENGINEERING
PREPARED BY: JOYDEEP DAS**



Department of Civil Engineering

School of Technology, Kaziranga University

The Civil Engineering Department of SET, KU organized a Webinar for the students of civil engineering department. The topic of the Webinar was "Influence of geological and geoengineering parameters in assessment of stability of slopes in open pit coal mines" and it was held on the 11th of August from 3:30. The objective of this Webinar was to introduce students to the concept of open pit coal mining, different location where coal pit are present in India, slope stability and failure of the open pit, a case study related to the slope failure, geo-engineering parameters and analysis. The poster for the Webinar is given below.

The poster features a dark red background with a blue vertical stripe on the left. At the top right, logos for Kaziranga University, The Institution of Engineers (India), and Azadi Ka Amrit Mahotsav are displayed. The main title is in a white box with red text. Below the title, the resource person's name and affiliation are listed next to a circular portrait. The date and time are prominently displayed. The welcome address and moderator information are provided, with a small portrait of the moderator. At the bottom, a registration link is given. The bottom of the poster is decorated with an illustration of a water wheel and a yellow dump truck on a brown slope.

KU KAZIRANGA UNIVERSITY
KNOWLEDGE & BEYOND

The Institution of Engineers (India)

75 Azadi Ka Amrit Mahotsav

Webinar on

INFLUENCE OF GEOLOGICAL AND GEOENGINEERING PARAMETERS IN ASSESSMENT OF STABILITY OF SLOPES IN OPEN PIT COAL MINES

Resource Person



Dr. Somesh Sengupta
Assistant Professor
Department of Geology
St. Xavier's College, Ranchi

Organized by
Department of Civil Engineering in collaboration with
Institutions of Engineers India Students' Chapter

11th August, 2022 | 3:30 pm

Welcome Address:
Dr. TVLN Rao
Dean, SET, The Assam Kaziranga University

Moderator:
Joydeep Das
Assistant Professor, CE, SET



Registration Link: <https://forms.gle/vJm93XenAeSZXnLG8>

Title of The Webinar: "Influence of geological and geoengineering parameters in assessment of stability of slopes in open pit coal mines"

Coordinator:

- Dr. Somesh Sengupta (Speaker and Presenter)
- Mr. Joydeep Das (Moderator)

Target Audience: B.Tech Civil Engineering Students

Number of registered candidates: Total number of candidates registered were 122

Number of candidates attended: 109

Feedback from participants: Attached

The webinar started with a welcome note delivered by the moderator, Joydeep, Assistant Professor of Civil Engineering, School of Technology where the esteemed speaker Dr. Somesh Sengupta was introduced.

Dr. Sengupta is currently serving as an Assistant Professor at St. Xavier's college, Ranchi. He has done his PhD from Department of Civil and Environmental Engineering, Birla Institute of Technology, Mesra. He in his presentation on "Influence of geological and geoengineering parameters in assessment of stability of slopes in open pit coal mines" introduced the students the concept of open pit coal mines and the slope failure and stability analysis. He discussed the different geo-engineering parameters that are essential for stability analysis, and laboratory test or analysis involved in the process of finding the strength parameters. The session was quite interactive as students were quite inquisitive. Dr. Somesh Sengupta also shared his contact detail with the students for future communication.

The session ended with a vote of thanks delivered by the Moderator, Joydeep Das, Assistant Professor, Civil Engineering Department.


Here are few of the photographs from the event.

Zoom Meeting

SLIDES BY OPEN PIT COAL MINES

Influence of Geological and Geoenvironmental Parameters in Assessment of Stability of Slopes in Open Pit Coal Mines

Dr. Somesh Sengupta
Department of Geology
St. Xavier's College, Ranchi



Participants (89)

- Zoom Ku (Host, me)
- Somesh (Co-host)
- TV V L N Rao (Co-host)
- Shwetambara Verma (Co-host)
- Aashish Pandey
- Annasha Kalita
- Arindam Debnath
- ASHLY RAKRIK G MOMIN
- Bismita's iPhone
- CHAYANIKA DEKA
- Chini
- Chiranjeeb Saikia (BACE)
- Dajum Jini
- Daphi Kharmawlong
- Dimpee Handique
- DH RITUNJOY SHIRAN


Zoom Meeting

SLIDES BY OPEN PIT COAL MINES

Contd...

Sliding of block along the line of intersection of faults F13-F13 and F16-F16

Movement of wedge block constituted of shale and coal to the tune of 3-5cm per day along the line of intersection of faults F13-F13 and F16-F16



Your network bandwidth is low

Somesh

Participants (103)

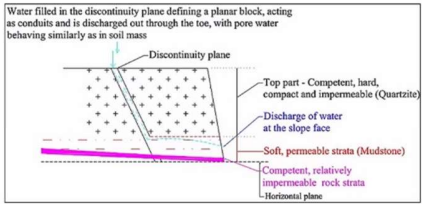
- Zoom Ku (Host, me)
- Somesh (Co-host)
- A KONGLI CHEMTOK
- Aashish Pandey
- Alentemisu
- Annasha Kalita
- Arindam Debnath
- ASHLY RAKRIK G MOMIN
- Bismita Sonowal
- CHAYANIKA DEKA
- Chini
- Dajum Jini
- Daphi Kharmawlong
- Debangna Kashyap
- Dimpee Handique
- Dipendra Kumar Yadav
- Dreema Tsomu

Zoom Meeting

SLIDES BY OPEN PIT COAL MINES

The water was found to have following different types of effects on the stability of highwall slopes of the study areas:

Water filled in the discontinuity plane defining a planar block, acting as conduits and is discharged out through the toe, with pore water behaving similarly as in soil mass



Flow of water along the discontinuity plane defining block of rock within the highwall slope and behaviour of pore water similar to that of soil mass within the rock strata constituting the toe

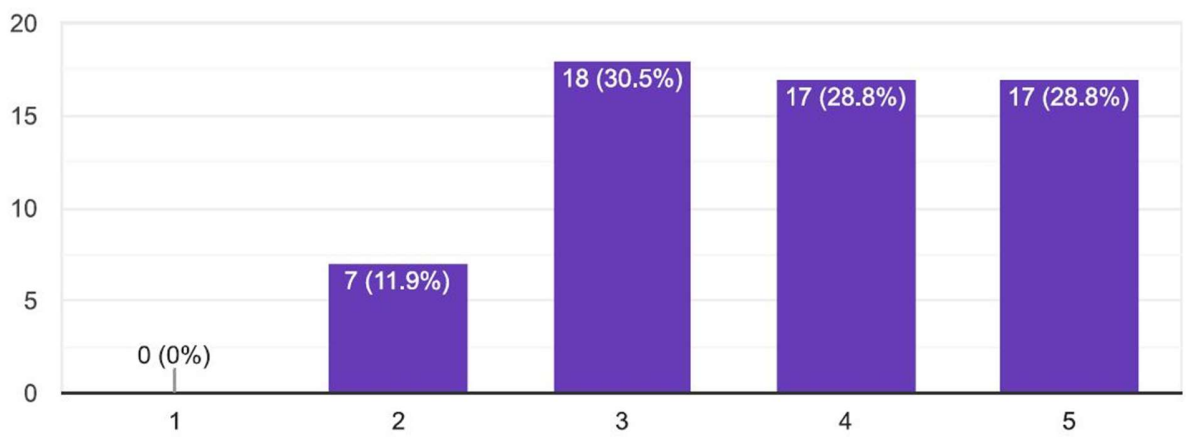
Participants (93)

- Zoom Ku (Host, me)
- Somesh (Co-host)
- A KONGLI CHEMTOK
- Alentemisu
- Annasha Kalita
- Arindam Debnath
- ASHLY RAKRIK G MOMIN
- Bismita Sonowal
- Dajum Jini
- Daphi Kharmawlong
- Dimpee Handique
- Dipendra Kumar Yadav
- Dreema Tsomu
- Dular Lida
- ET198THCE002

Feedback:

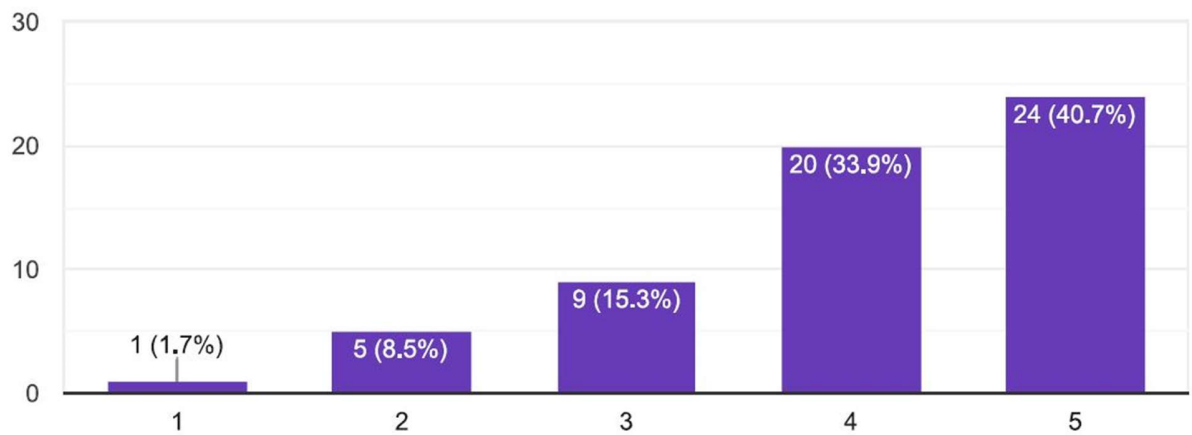
How would you rate the overall experience of the webinar?

59 responses



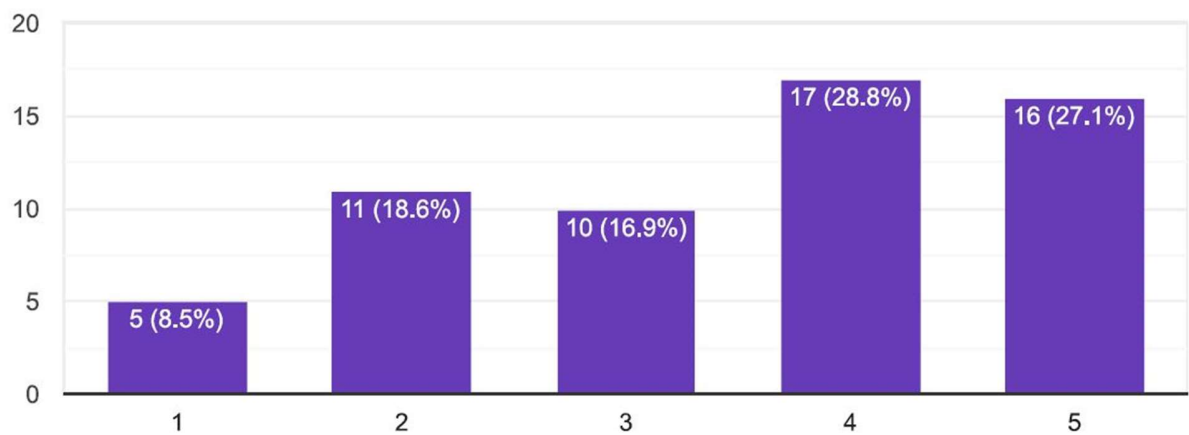
The content was interesting and useful

59 responses



How would you rate the quality of presentation

59 responses



You look forward to such webinars in future.



59 responses

