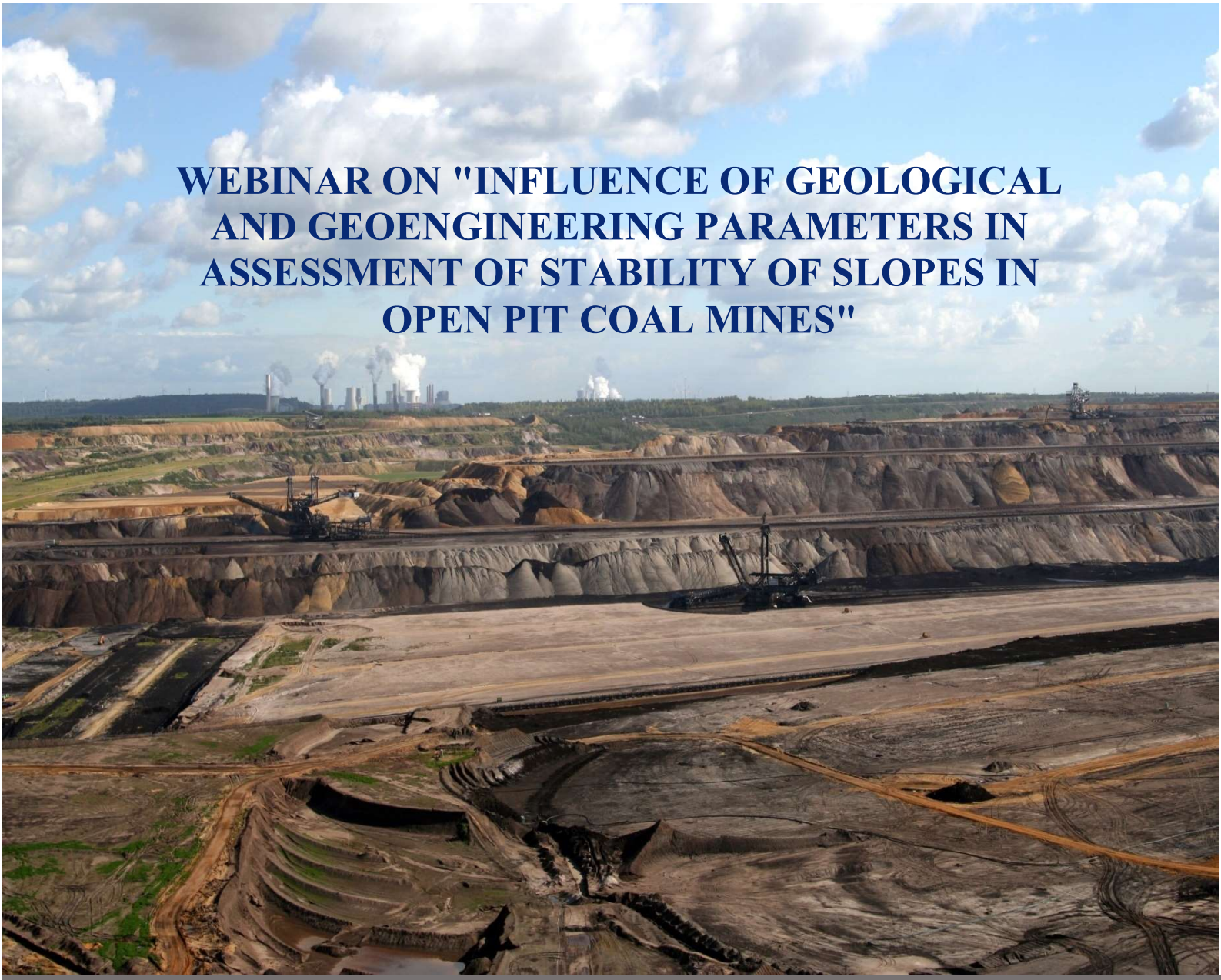


WEBINAR ON "INFLUENCE OF GEOLOGICAL AND GEOENGINEERING PARAMETERS IN ASSESSMENT OF STABILITY OF SLOPES IN OPEN PIT COAL MINES"

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.

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

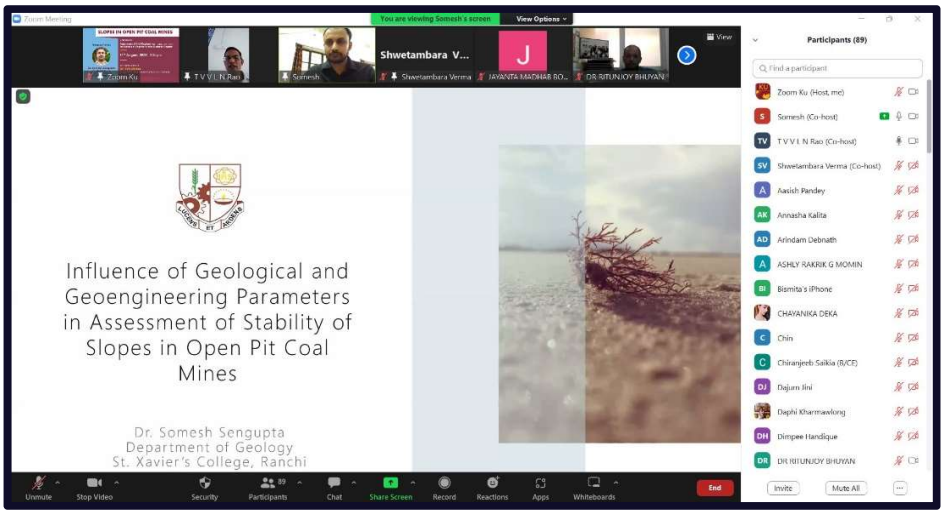
Feedback from participants: Attached

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.


You are viewing Somesh's screen
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Shwetambara V...
Participants (89)
Influence of Geological and Geoengineering Parameters in Assessment of Stability of Slopes in Open Pit Coal Mines
Dr. Somesh Sengupta
Department of Geology
St. Xavier's College, Ranchi
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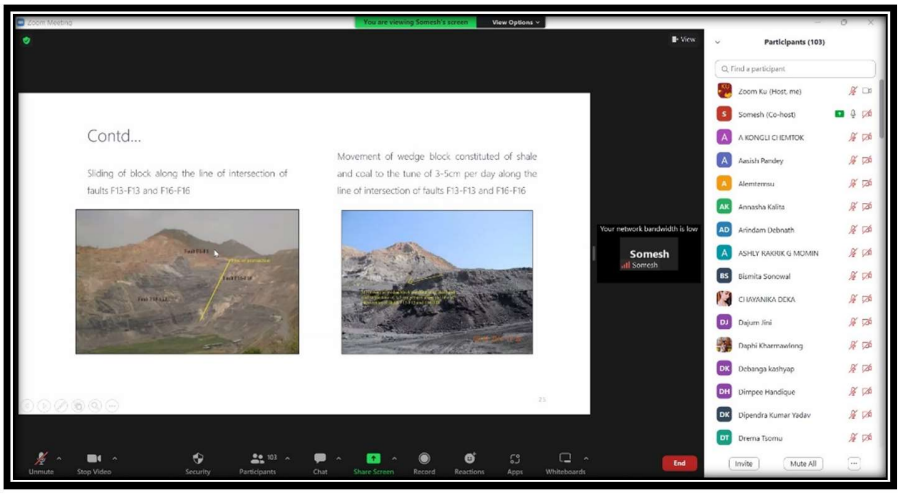
Participants
Chat
Share Screen
Record
Reactions
Apps
Whiteboards
End
Invite
Mute All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Participants (103)
Contd...
Sliding of block along the line of intersection of faults F13-F13 and F16-F16
Movement of wedge block constituted of shale and coal to the tune of 3-5cm per day along the line of intersection of faults F13-F13 and F16-F16
Your network bandwidth is low
Somesh
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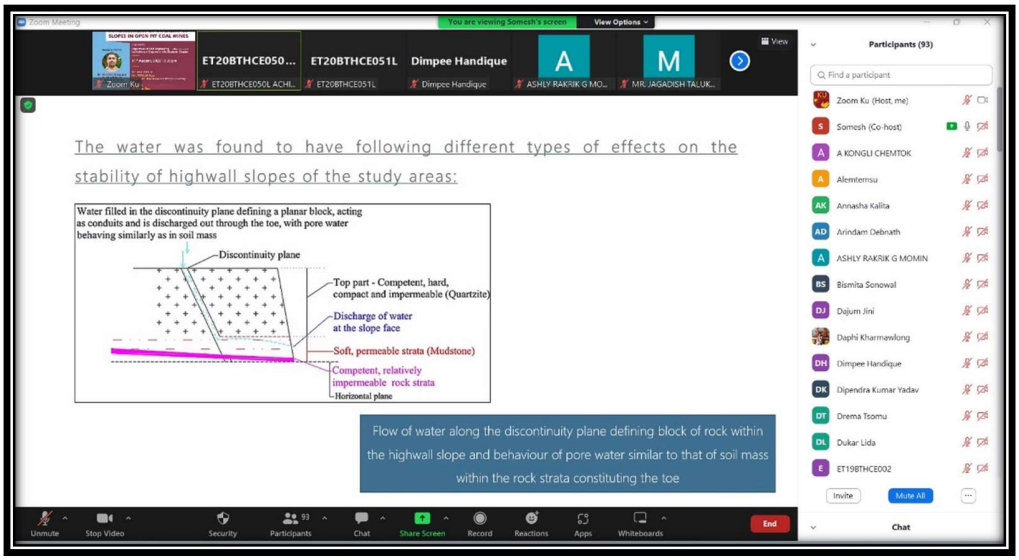
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Dimpee Handique
Participants (93)
The water was found to have following different types of effects on the stability of highwall slopes of the study areas:
Water filled in the discontinuity plane defining a planar block, acting as conduits and is discharged out through the toe, with pore water behaving similarly as in soil mass
Discontinuity plane
Top part - Competent, hard, compact and impermeable (Quartzite)
Discharge of water at the slope face
Soft, permeable strata (Mudstone)
Competent, relatively impermeable rock strata
Horizontal plane
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
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Share Screen
Record
Reactions
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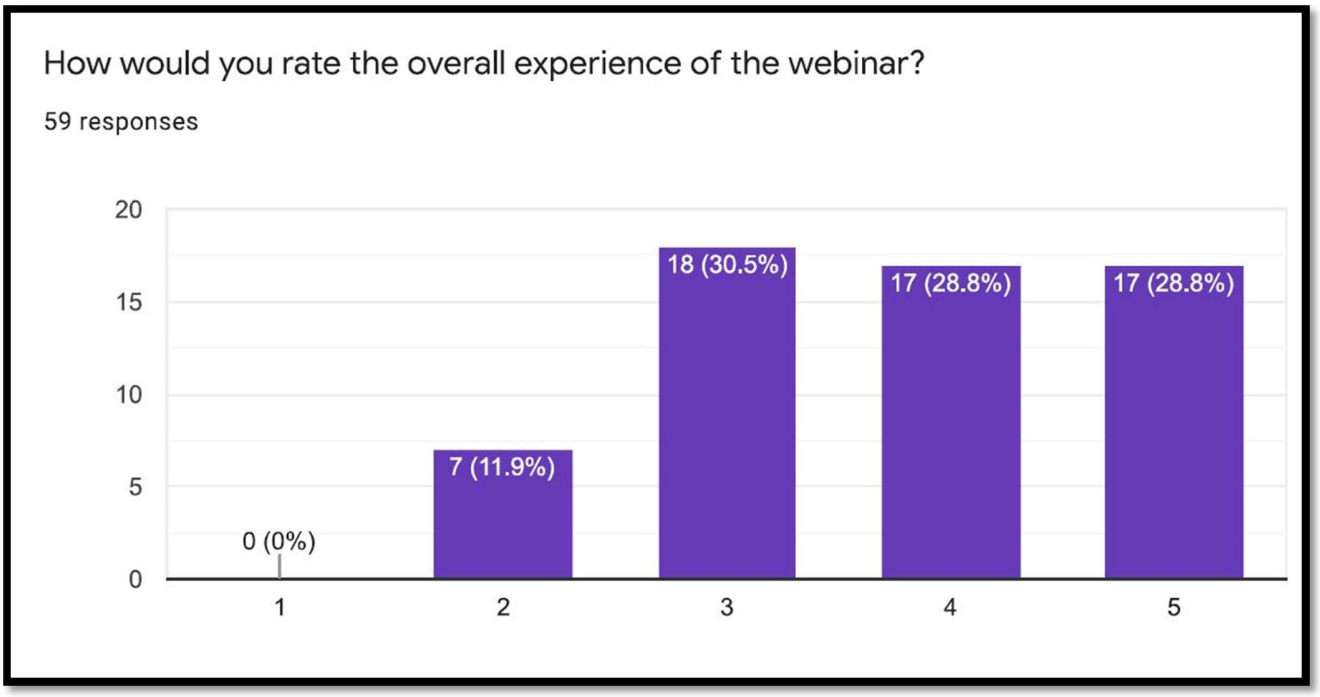
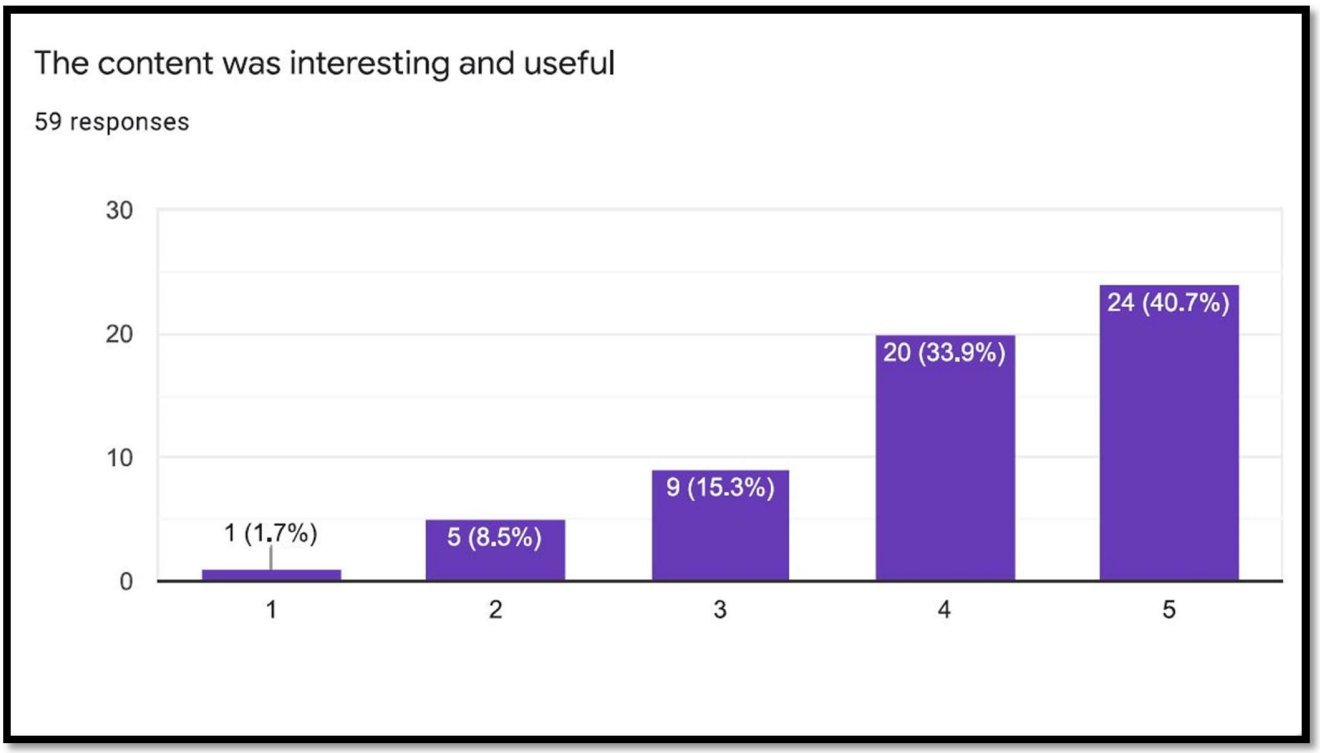
Mute All

Feedback:


How would you rate the overall experience of the webinar?
59 responses
20
15
10
5
0
0 (0%)
7 (11.9%)
18 (30.5%)
17 (28.8%)
17 (28.8%)
1
2
3
4
5


The content was interesting and useful
59 responses
30
20
10
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1 (1.7%)
5 (8.5%)
9 (15.3%)
20 (33.9%)
24 (40.7%)
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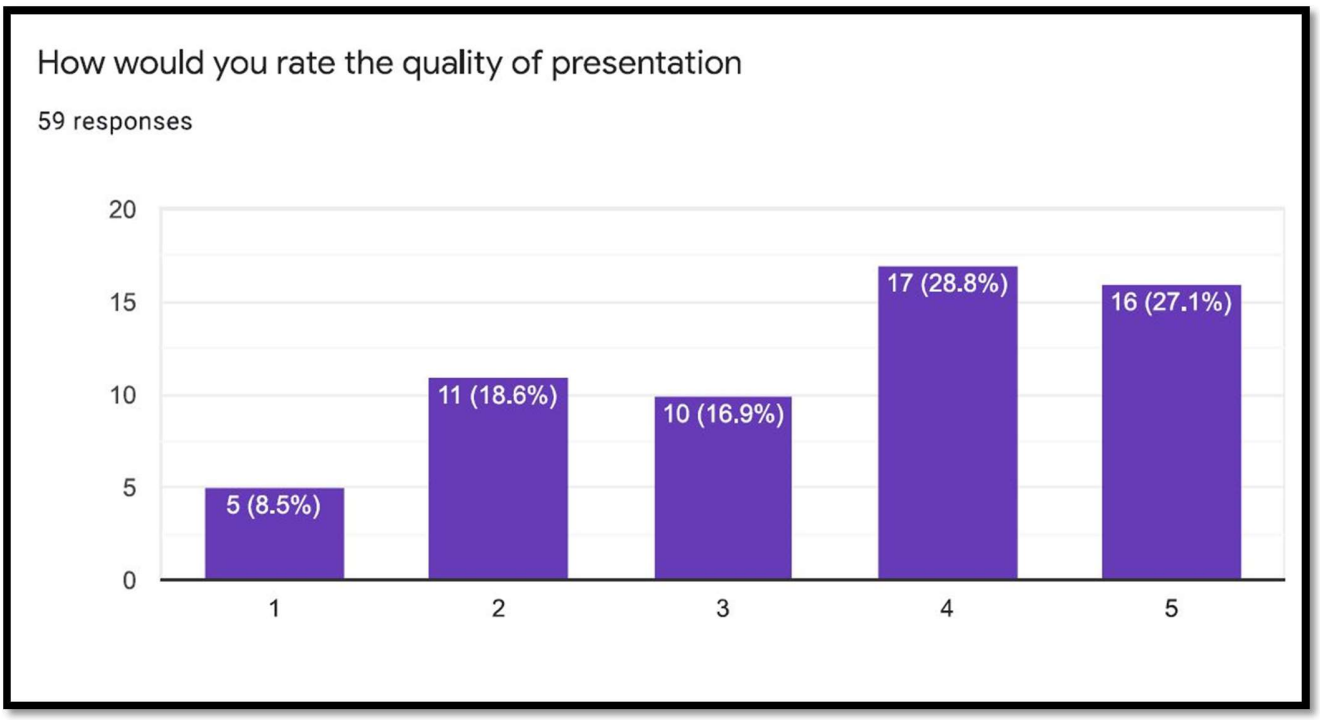
How would you rate the quality of presentation
59 responses
20
15
10
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0
5 (8.5%)
11 (18.6%)
10 (16.9%)
17 (28.8%)
16 (27.1%)
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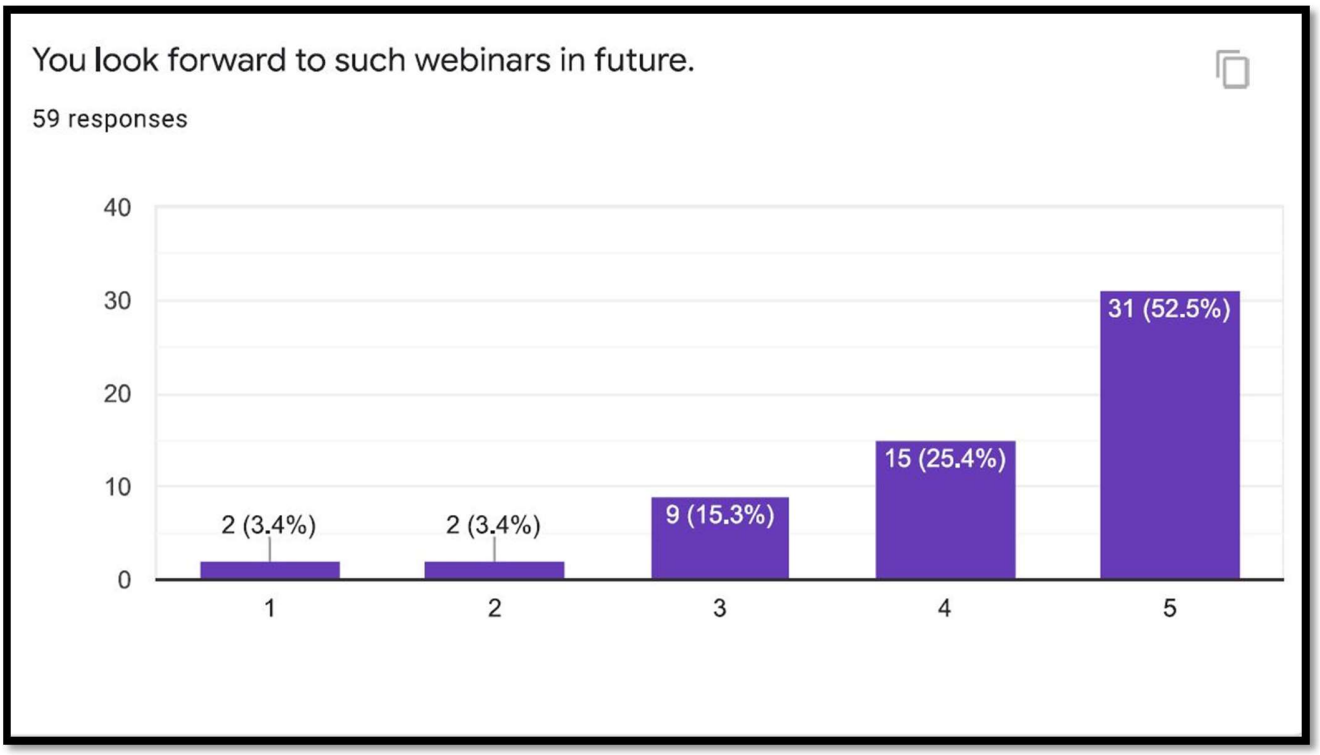
You look forward to such webinars in future.
59 responses
40
30
20
10
0
2 (3.4%)
2 (3.4%)
9 (15.3%)
15 (25.4%)
31 (52.5%)
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5