



LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING

(AUTONOMOUS)

Accredited by NAAC & NBA (CSE, IT, ECE, EEE & ME)

Approved by AICTE, New Delhi and Affiliated to JNTUK, Kakinada

L.B.Reddy Nagar, Mylavaram-521230, Krishna Dist, Andhra Pradesh, India

DEPARTMENT OF MECHANICAL ENGINEERING

LBRCE-ISHRAE student chapter

Guest Lecture by Dr.N.V.V.S.Sudheer, Professor, RVR&JC

on “Investigation on influence of Refrigerated air and high heat transfer rate MQL in turning of Aluminium silicon carbide metal matrix composite” followed by

LBRCE-ISHRAE student chapter installation and CWC members Swearing on ceremony

Event Type : Guest Lecture

Date / Duration : 29-01-2022/ 2:00 pm-3:30 pm

Resource Person : 1) Dr.N.V.V.S.Sudheer, Professor, RVR&JC College of Engineering,
Guntur
2) Ms.Saandeepani Vajje, President-Elect, Vijayawada ISHARE

Chapter

Name of Coordinator : Dr.P.Vijay Kumar

Target Audience : All ISHRAE registered students and other students

Total no of Participants: 75

Objective of the event: To make students aware of one of the applications of Refrigeration for providing cooling for turning operation adopting the MQL technique.

Outcome of event : 1) Students were able to know the use of refrigeration for turning operation as a part in MQL technique for providing economy and higher heat transfer rates.
2) Students got their doubts clarified with the Resource Person on various technical aspects in order to take up project works.

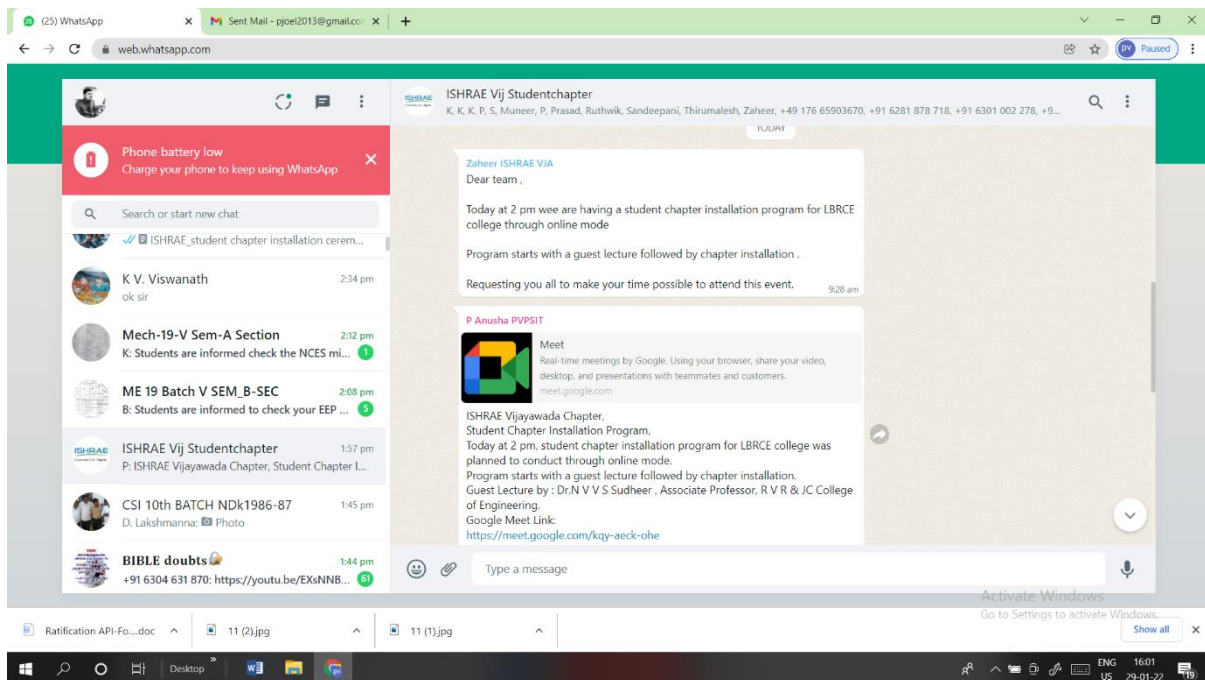
Description / Report on Event:

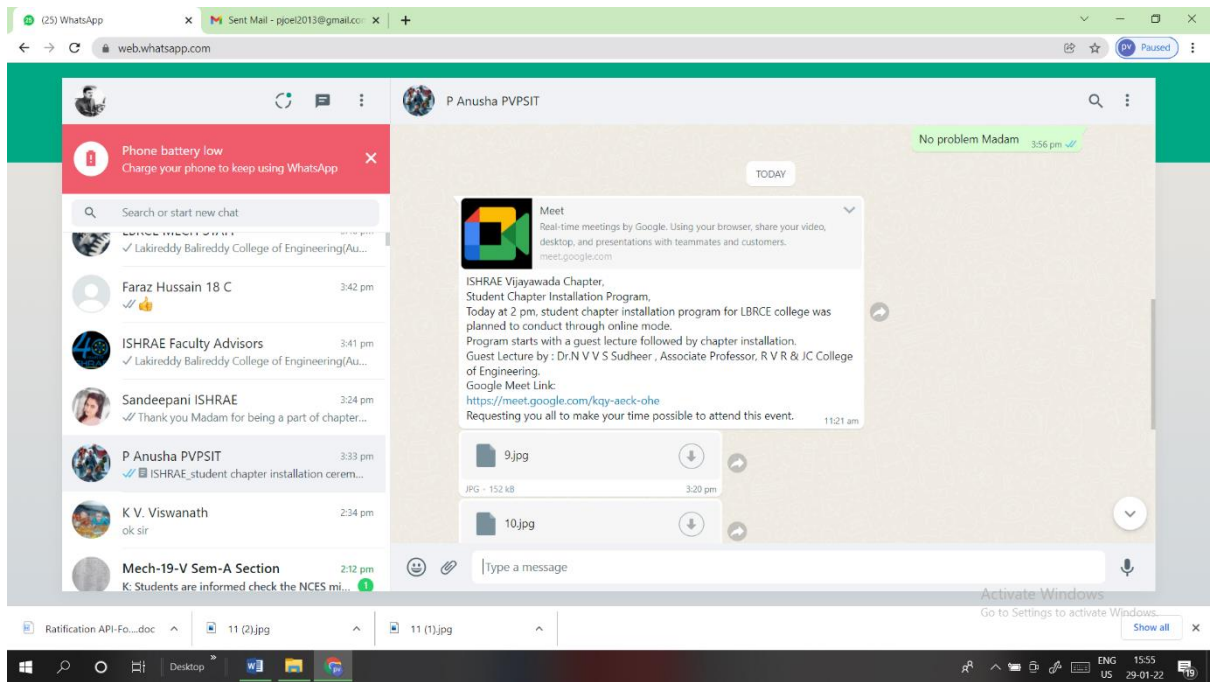
A webinar was organized by ISHRAE Student chapter of LBRCE in association with ISHRAE Vijayawada Chapter for LBRCE student chapter Renewal and CWC members swearing in ceremony followed by technical talk on **“Investigation on influence of Refrigerated air and high heat transfer rate MQL in turning of Aluminium silicon carbide metal matrix composite”**. The resource person Dr.N.V.S.Sudheer, Professor, Department of Mechanical Engineering, RVR&JC College of Engineering, Guntur also acted as the Chief Guest. The resource person has delivered the talk in a very lucid and easy to understand manner to the participants. He has provided good number of examples and have shown the videos for making the students understand and motivated them. The resource person made students to get awareness on the opportunities in the HVAC & Refrigeration domain locally and globally. He emphasized on the strong technical knowledge required in students to grab the opportunities. The attendees were very much satisfied by attending the webinar.

The programme of swearing in ceremony of CWC members by Ms.P.Anusha, Student Chair, ISHRAE Vijayawada Chapter, was held soon after the guest lecture. The guest lecture and CWC members swearing on ceremony sessions started at 2 PM and continued up to 3.30PM.

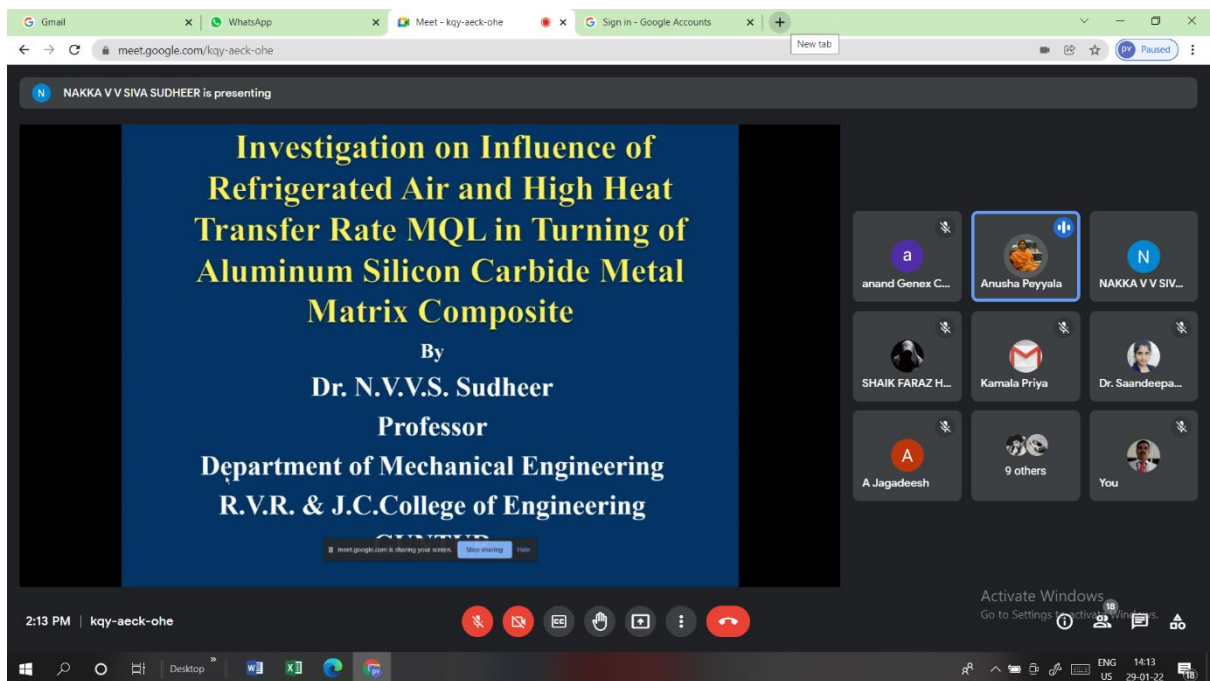
Feedback / Suggestions:

Photographs :





Presentation by Dr.N.V.S.Sudheer, Professor, Dept of ME, RVR&JC, Guntur



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NAKKA V V SIVA SUDHEER is presenting

2:17 PM | kqy-aeck-ohe

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NAKKA V V SIVA SUDHEER is presenting

EXPERIMENTAL DETAILS

- The cutting experiments have been carried out on TMX-2030 engine lathe which has a maximum spindle speed of 1200 rpm and considering cutting speed (v), feed (f) and depth of cut (d) as parameters.


2:18 PM | kqy-aeck-ohe

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NAKKA V V SIVA SUDHEER is presenting



Anusha Peyyala NAKKA V V SIVA ...

SHAIK FARAZ H... Rangiseti Naveen

Dr. Saandeevani ... A Jagadeesh

15 others You

People

Search for people

In call

- Dr.P.Vijaya Kumar P... (You)
- A Jagadeesh
- anand Genex Consultants
- Anusha Peyyala Meeting host
- Dr. Saandeevani Vajje
- Gabriel Bussa
- Galam Krupassagar
- Goda Harikrishna
- JONNALA SUBBA REDDY

2:24 PM | kqy-aeck-ohe

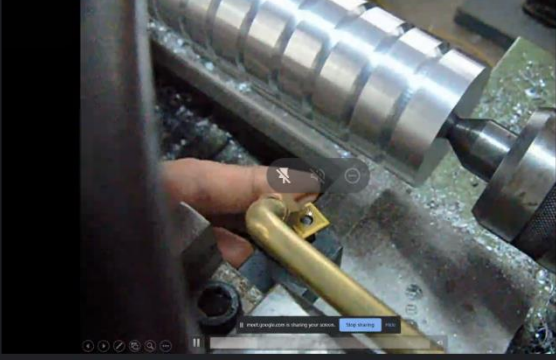
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NAKKA V V SIVA SUDHEER is presenting



Anusha Peyyala NAKKA V V SIVA ...

SHAIK FARAZ H... Rangiseti Naveen

Dr. Saandeevani ... A Jagadeesh

15 others You

People

Search for people

In call


- Dr.P.Vijaya Kumar P... (You)
- A Jagadeesh
- Anusha Peyyala Meeting host
- Dr. Saandeevani Vajje
- Gabriel Bussa
- Galam Krupassagar
- Goda Harikrishna
- JONNALA SUBBA REDDY
- Kamala Priya

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NAKKA V V SIVA SUDHEER is presenting



LeelaBharath Kummari has left the meeting

2:30 PM | kqy-aeck-ohe

People

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In call

- Dr.P.Vijaya Kumar P... (You)
- A Jagadeesh
- Anusha Peyyala Meeting host
- Challapalli Swamy
- Dr. Saandeevani Vajje
- Gabriel Bussa
- Galam Krupesagar
- Godha Harikrishna
- Gopal Naredala

Participants: Anusha Peyyala, NAKKA V V SIVA SUDHEER, SHAIK FARAZ H., Gopal Naredala, Dr. Saandeevani Vajje, A Jagadeesh, 19 others, You.

NAKKA V V SIVA SUDHEER is presenting

• Pressurized Refrigerated Air Environment Results and Analysis

Velocity (v) m/min	Feed(f) mm/rev.	Depth of cut (d) mm	Surface Roughness (Ra) μ m			Individual experiment average	Total average
			1	2	3		
34	0.113	0.25	5.00	5.41	6.77	5.726	5.646
			4.88	5.12	6.70	5.566	
34	0.113	0.5	5.46	5.42	6.38	5.753	5.713
			5.37	5.44	6.21	5.673	
34	0.113	0.75	5.21	6.88	6.87	6.32	6.301
			5.34	6.75	6.76	6.283	
34	0.178	0.25	7.27	7.02	7.29	7.193	7.156
			6.99	7.16	7.21	7.12	
34	0.178	0.5	7.50	7.48	7.59	7.523	7.495
			7.44	7.57	7.39	7.466	
34	0.178	0.75	7.46	7.60	7.37	7.476	7.601
			7.46	7.92	7.80	7.726	
34	0.249	0.25	7.94	8.65	8.00	8.196	8.243
			8.30	8.27	8.30	8.29	
34	0.249	0.5	7.93	8.83	8.49	8.416	8.498
			8.58	8.92	8.24	8.58	
34	0.249	0.75				8.985	

2:32 PM | kqy-aeck-ohe

Participants: Anusha Peyyala, NAKKA V V SIVA SUDHEER, SHAIK FARAZ H., Gopal Naredala, Dr. Saandeevani Vajje, A Jagadeesh, Rangiseti Nave..., 18 others, You.

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NAKKA V V SIVA SUDHEER is presenting

Velocity Vs Surface Roughness in different Environments

Velocity (m/min)	Dry cutting (µm)	Refrigerated Air (µm)	Propylene Glycol solution MQL (µm)
40	8.5	7.5	4.5
60	8.0	7.2	3.8
90	7.5	7.0	3.8

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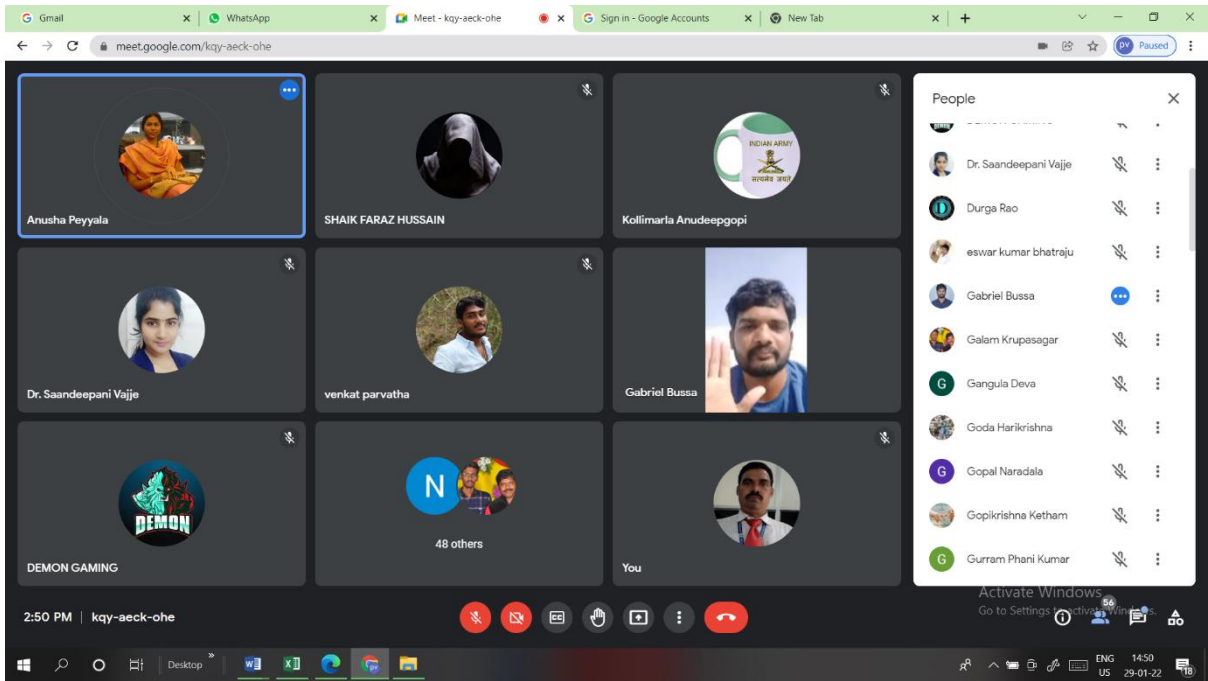
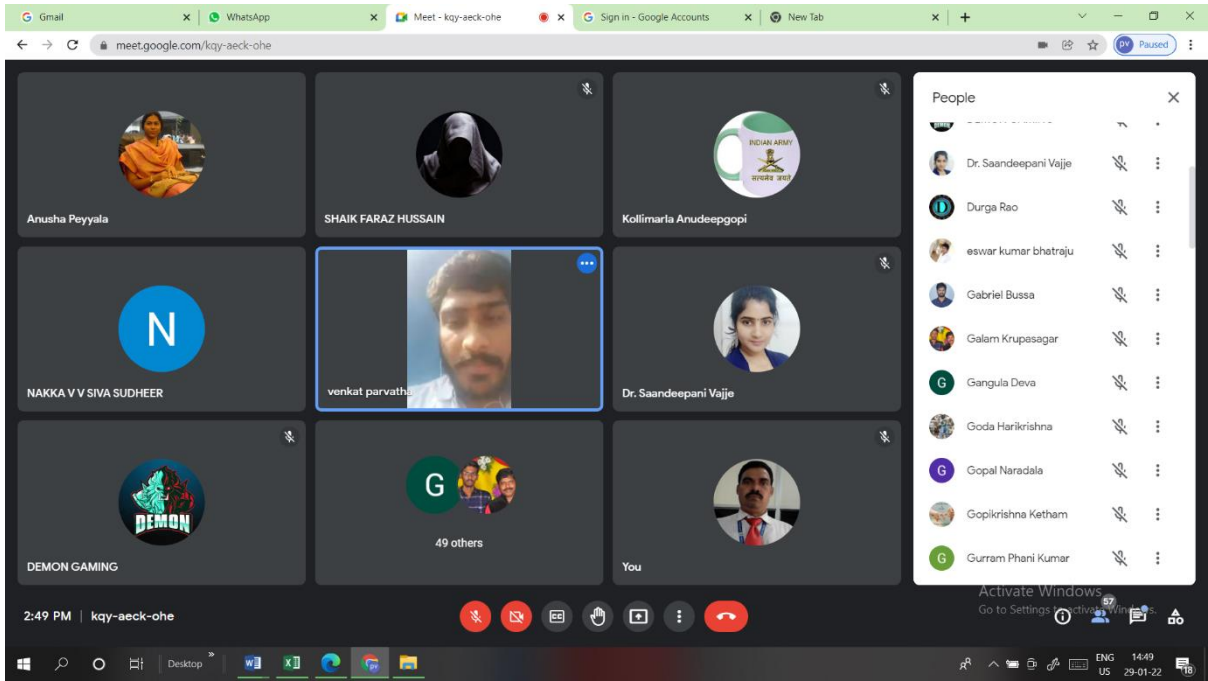
CWC Members Swearing on Ceremony on 29-01-2022

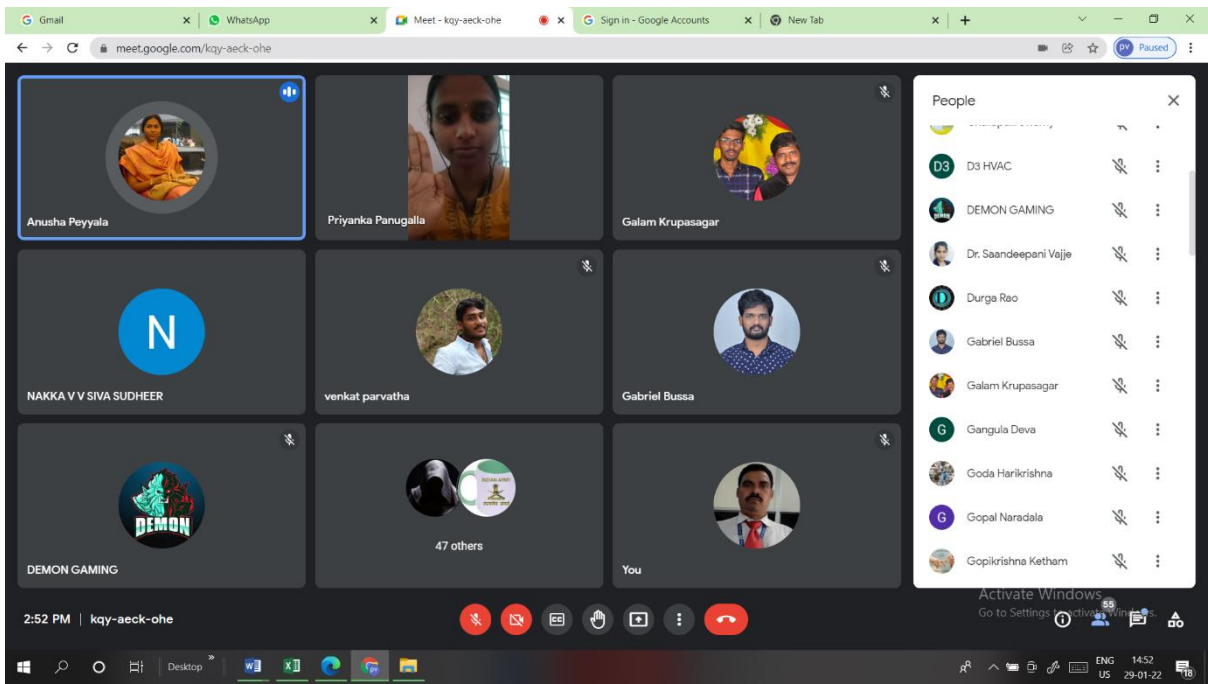
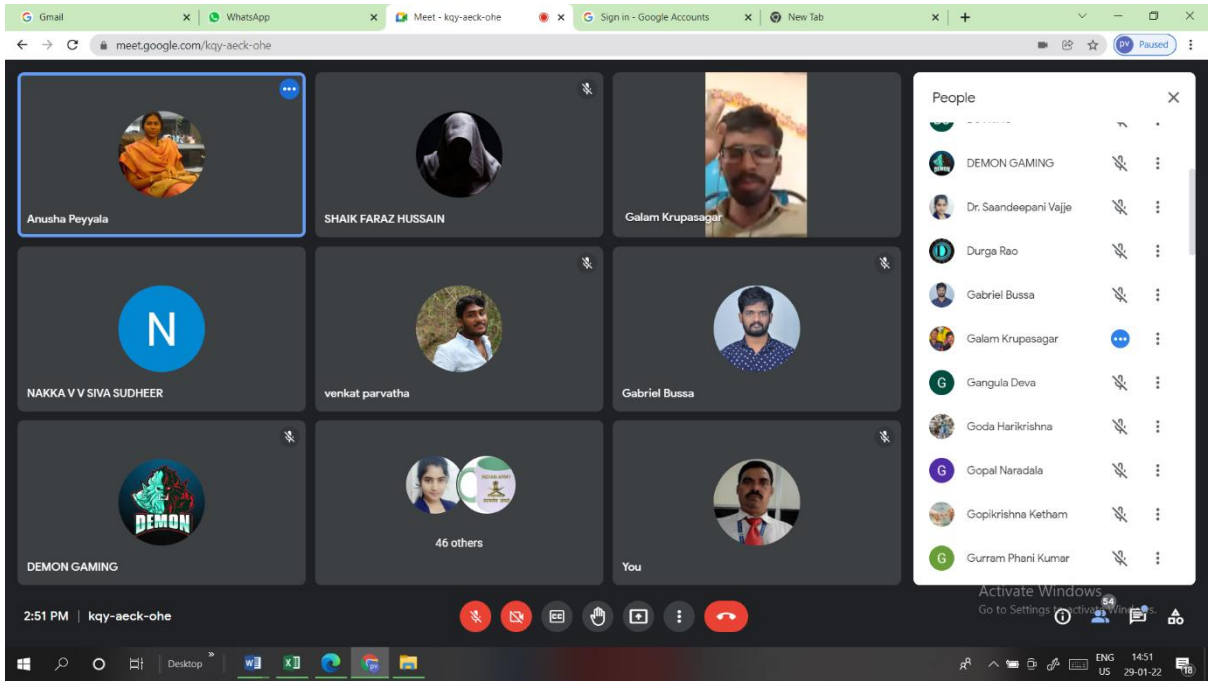
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People

- Dr. Saandeepani Vajje
- Durga Rao
- eswar kumar bhatraju
- Gabriel Busa
- Galam Krupasagar
- Gangula Deva
- Goda Harikrishna
- Gopal Naradala
- Gopikrishna Ketham
- Gurram Phani Kumar

2:47 PM | kqy-aeck-ohe





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Address bar: meet.google.com/kqy-aeck-ohe

Meeting ID: kqy-aeck-ohe

Time: 3:04 PM

Participants in grid:

- Anusha Peyyala
- Dr. Saandeevani Vajje
- Kollimarla Anudeegopi
- venkat parvatha
- Ravindra Kumar P
- SHAIK FARAZ HUSSAIN
- NAKKA V V SIVA SUDHEER
- 40 others
- You

People list (In call):

- Dr.P.Vijaya Kumar P... (You)
- Adla Raju
- Anusha Peyyala (Meeting host)
- Challapalli Swamy
- D3 HVAC
- Dr. Saandeevani Vajje
- Durga Rao
- eswar kumar bhattraju
- Galam Krupasagar

Windows taskbar: Desktop, Word, Excel, Edge, Chrome, File Explorer, System tray (ENG US, 15:04, 29-01-22)

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Meeting ID: kqy-aeck-ohe

Time: 3:05 PM

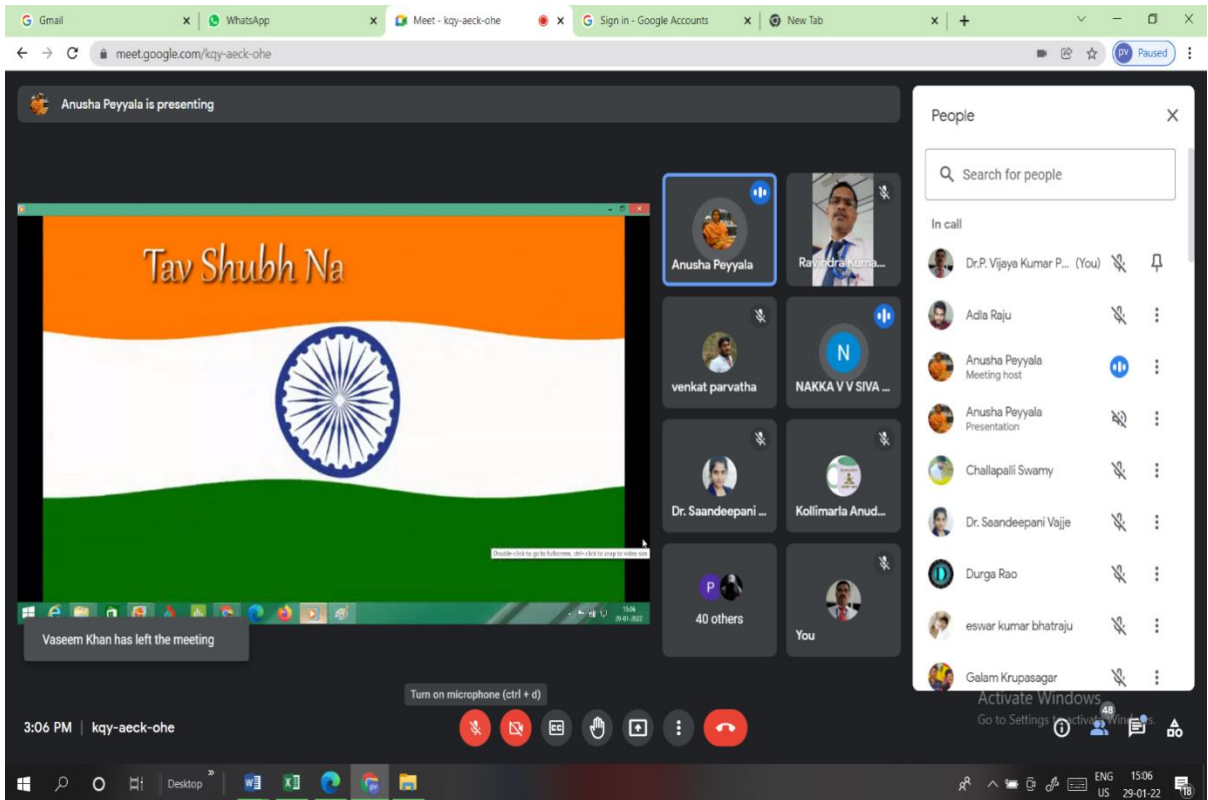
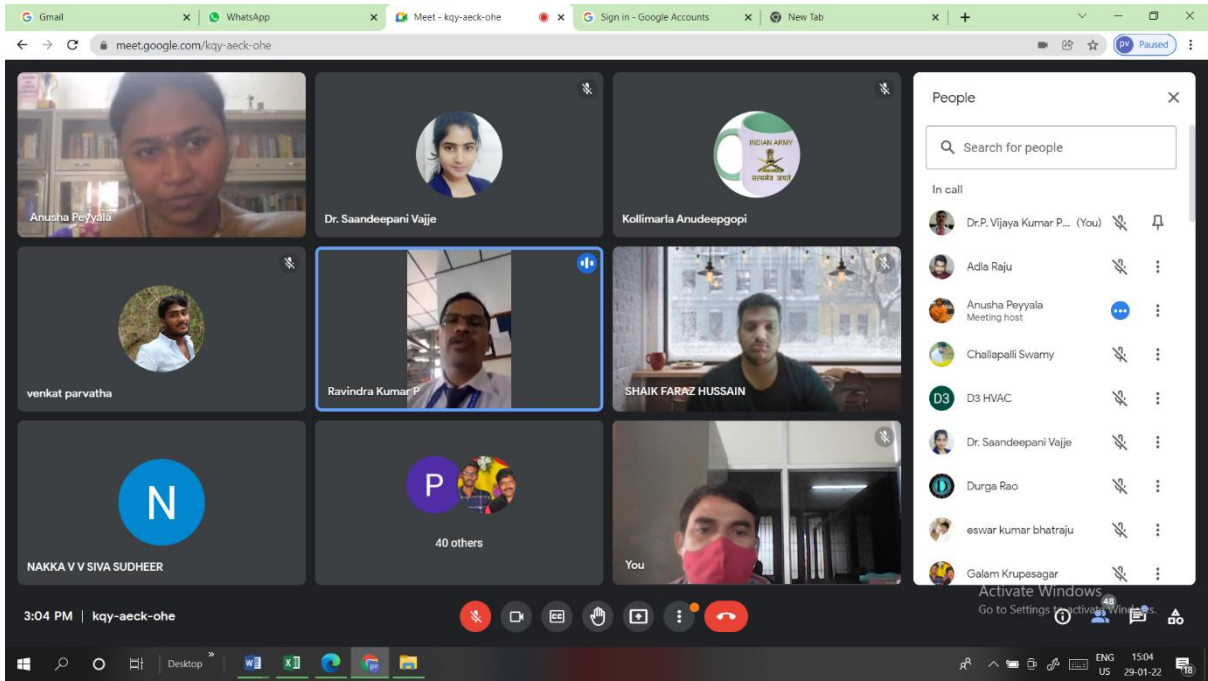
Participants in grid:

- Anusha Peyyala
- malli karjuna
- Galam Krupasagar
- venkat parvatha
- Ravindra Kumar P
- SHAIK FARAZ HUSSAIN
- NAKKA V V SIVA SUDHEER
- 41 others
- You

People list (In call):

- Dr.P.Vijaya Kumar P... (You)
- Adla Raju
- Anusha Peyyala (Meeting host)
- Challapalli Swamy
- D3 HVAC
- Dr. Saandeevani Vajje
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- Galam Krupasagar

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S.P. Reddy
HEAD
Dept. of Mechanical Engineering
LAKIREDDY BALU REDDY COLLEGE OF ENG
MYLAVARAM - 521 230, Krishna Dist, A.P.

(Dr.S.Pichi Reddy)