



Gramaudyogik Shikshan Mandal's
MIT
A Group of Academic & Research Institutions
AURANGABAD

G.S. Mandal's
Maharashtra Institute of Technology, Aurangabad
Department of Electronics and Telecommunication Engineering

E-REVES

VOL VI, ISSUE 1

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- Rising Stars

Internet of Behaviour

Editorial message

The E&TC department of MIT institute has a wide spectrum of professional and technical programs; with focus on skill development and placement goals. Here, we adapt enhanced teaching and learning methodologies, which result in benchmark performances by the students. Blended education with zealous and highly qualified faculty and attractive packages from multinational companies enable the students to face the global challenges of the future.

I congratulate all the students who have completed their IPT successfully and wishing them a bright future



VISION:

MIT aspires to be leader in techno-managerial education at national level by making students technologically superior and ethically strong having an enterprising spirit with a global mindset.

MISSION:

We are committed to provide wholesome education in Technology and Management to enable aspiring students to utilize their fullest potential and become professionally competent by providing: Well qualified, experienced and professionally trained faculty, State-of-the-art infrastructural facilities and learning environment, conducive environment for research and development, delight to all stakeholders.



BIG Data

Almost all devices that a person uses is starting to get connected to the internet and syncing its data, a person's hobbies, activities and interests can be recognized.

S.E.O.

With the data from all connected devices that a person owns, the search engines can perform a better job, they can fetch data based not on the keywords but the intent of the person.



VISION

To develop the department into a full-fledged center of learning in the various field of Electronics and Telecommunication keeping in view the latest development and making students technologically superior and ethically strong.

MISSION

To impart education and training in the field of Electronics and Telecommunication engineering and its allied areas by developing competencies of the students to meet social and industrial needs.

EDITO

WHAT IS INTERNET OF BEHAVIOR

Internet of Behavior, also known as IoB, refers to the behavioral data analysis gathered from the Internet of Things and other sources and then attempts to make effective use of this data. This data is amassed through wearable technologies, individual online activities, household electrical devices,

With the help of both IoT and IoB, it has become possible now to track, gather, combine and interpret massive data generated via various online activities and personal including social media behaviors .

DATA & ANALYTICS

IOB

PLATFORMS & APPLICATIONS

USER EXPERIENCE



WISDOM



KNOWLEDGE



INFORMATION



DATA

Advantages of Internet of Behavior (IoB)

Analyze customer buying habits across platforms

Study previously unobtainable data about how customers interact with devices and products

Gain deeper insights into where a customer is in the buying journey

Provide realtime point-of-sale notifications and target ads

Quickly resolve issues to close sales and keep customers happy

PROJECTO!

Project Title: Gesture Controlled Contactless Elevator

In this time of Corona pandemic, elevators have become a high-risk place where everybody touches the same buttons. So, as a solution, this is a gesture controlled elevator prototype using the Arduino Nano, an APDS9960 Gesture Sensor, and an OLED display module.

This Contactless Elevator is using Arduino Nano, an APDS9960 Gesture Sensor, and an OLED display module. With this gesture based control panel, you can easily control your Lift by making a hand gesture. The APDS9960 Sensor is used to read the gestures. UP and DOWN gestures are used to set the floor number the left gesture is to close the lift door and move the lift according to the floor number and the Right gesture is used to open the door.



WISHING YOU A

NAME Sumati Ladane
Pratiksha Dabhade

Project Title: Time Data Monitoring Software for CNC Machine.

Problem statement from industry: In this project number of Fanuc branded CNC machine running in our industry for etalic operation purpose. The machining data generated by the cnc machine has to be continuously tracked for smooth operations and maintenance purpose There are readily available software's to do the data monitoring from the Fanuc manufacturer. But this software costs the charges of 10 Lakh to 15 lakh yearly. Most of the small-scale industry can't afford

Methodology to address problem: In this project, the software of their need in almost no cost. The data from the machine is taken in real time and that data is sent over a http protocol in particular IP address and listening port. A batch file generator program has been made which can generate a small executable batch file for all the models of Fanuc cnc machine. That executable file automatically establishes a wireless connection with the cnc machine and opens a listening port in the local network.



MACHINEID	device_with_sensor_1	device_with_sensor_2	device_with_sensor_3	device_with_sensor_4	device_with_sensor_5
MACHINENAME	CNC-2-AXIS-1	CNC-2-AXIS-2	CNC-2-AXIS-3	CNC-2-AXIS-4	CNC-2-AXIS-5
PARTCOUNT	154	110	89	84	70
ACTIVEAXES	X,Z	X,Z	X,Z	X,Z	X,Z
S1 SPEED	0	2100	2411	1587	981
S1 LOAD	0	15	21	22	10
S1 SPEEDDOWN	100	110	120	100	100
S1 SERVO					
SERVO	NormalType	NormalType	NormalType	NormalType	NormalType
COMMS	NormalType	NormalType	NormalType	NormalType	NormalType
LOGID	NormalType	NormalType	NormalType	NormalType	NormalType

NAME Kaustubh Tulaskar
Uswa lpatil.
Aditi Kale.



PROJECTO!

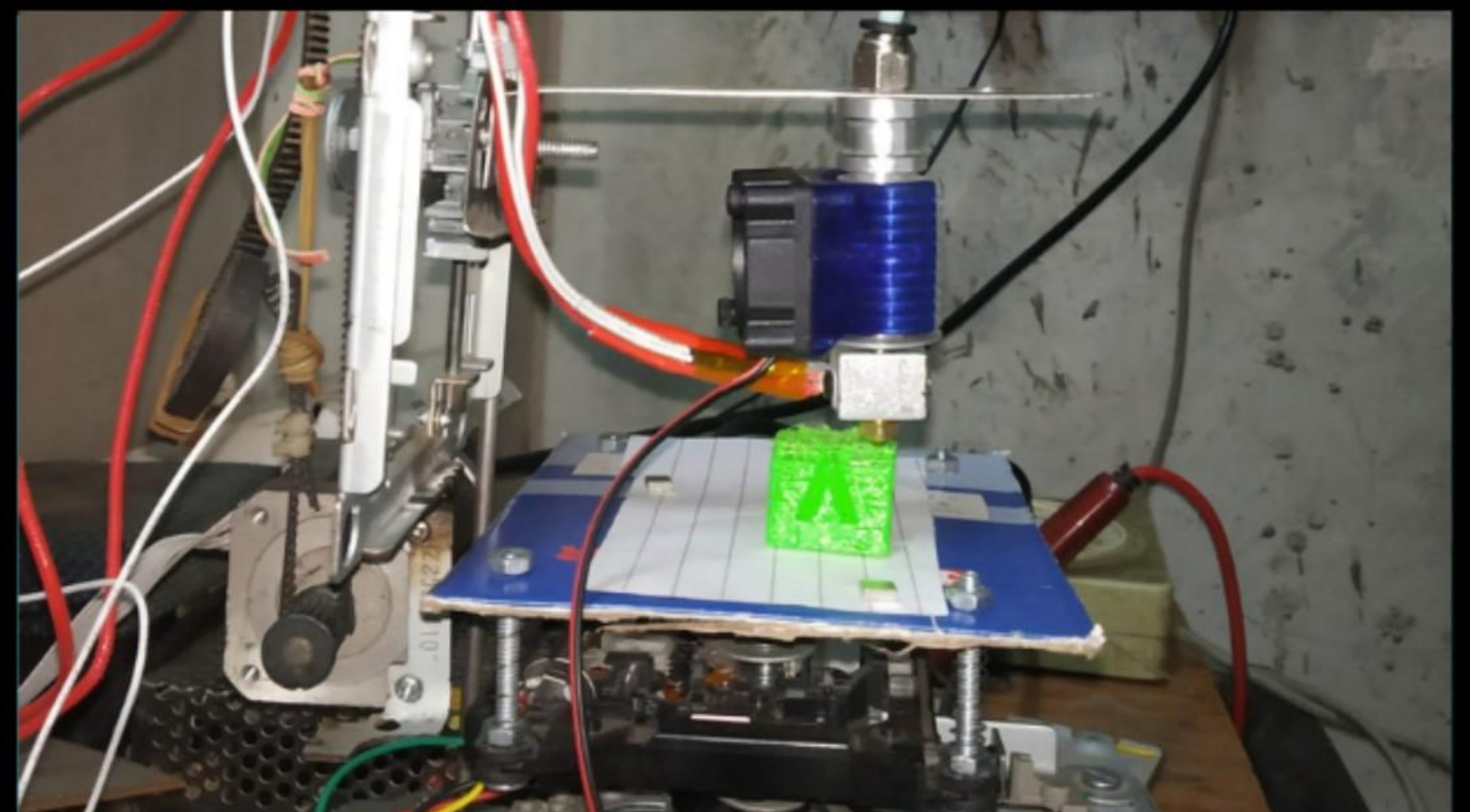
Project Title: FDM Based 3D Printer

3D printing or additive manufacturing is any of various processes used to make a three-dimensional object. In 3D printing, additive processes are used, in which successive layers of material are laid down under computer control

3D printing is mainly based on Additive Manufacturing process. AM is defined as the process of joining materials to make objects from 3D model data, usually layer upon layer. In this process the model is first created using CAD software and then transferred to the printer as a set of stereo lithography language, which is then converted to layers that can be laid directly. Each layer has an activating agent and a power material Which helps in bonding of the layers.

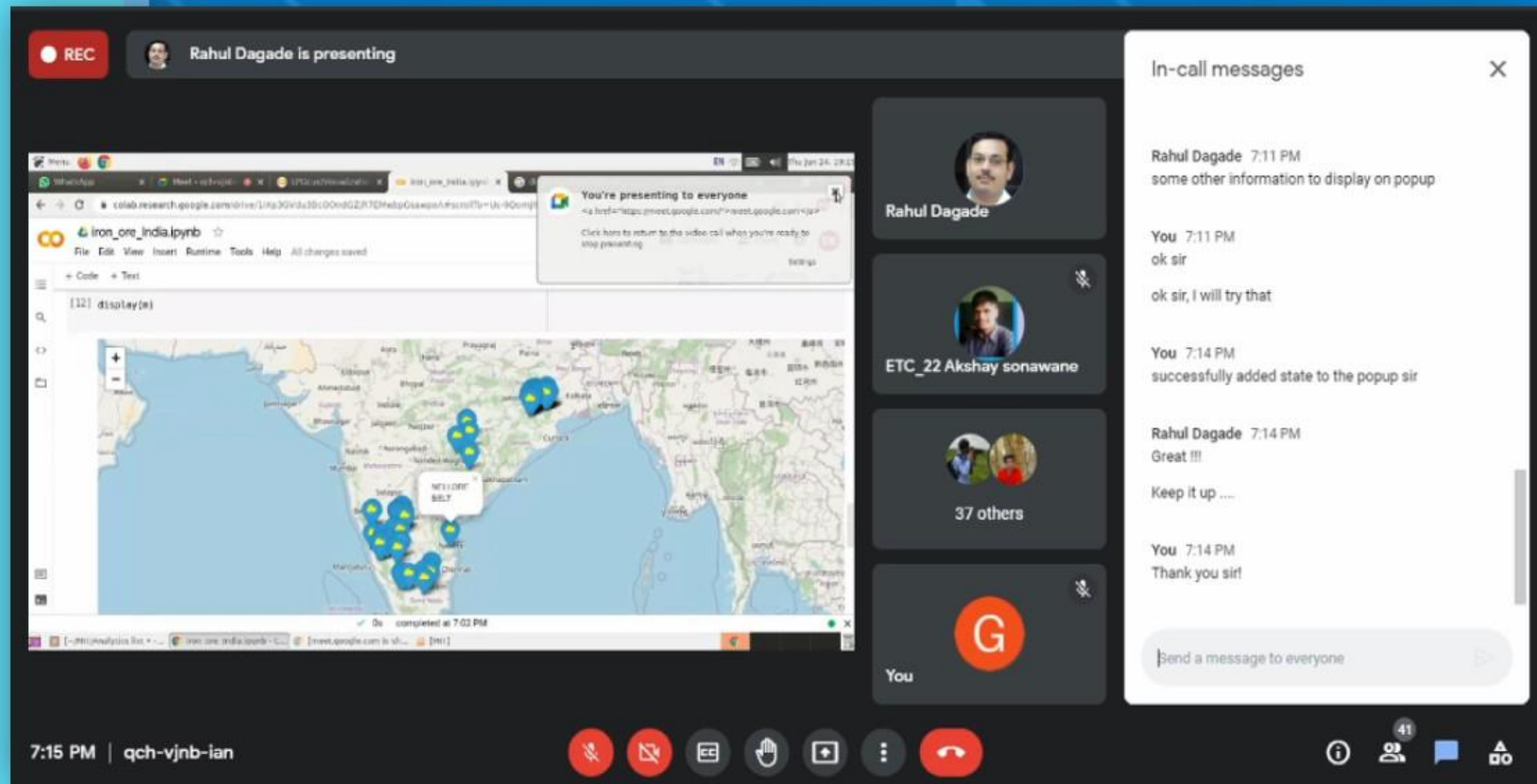
NAME

Aawej Mulla
Pratik Pitale
Sandeep Navgire





EVENTO



Workshop on

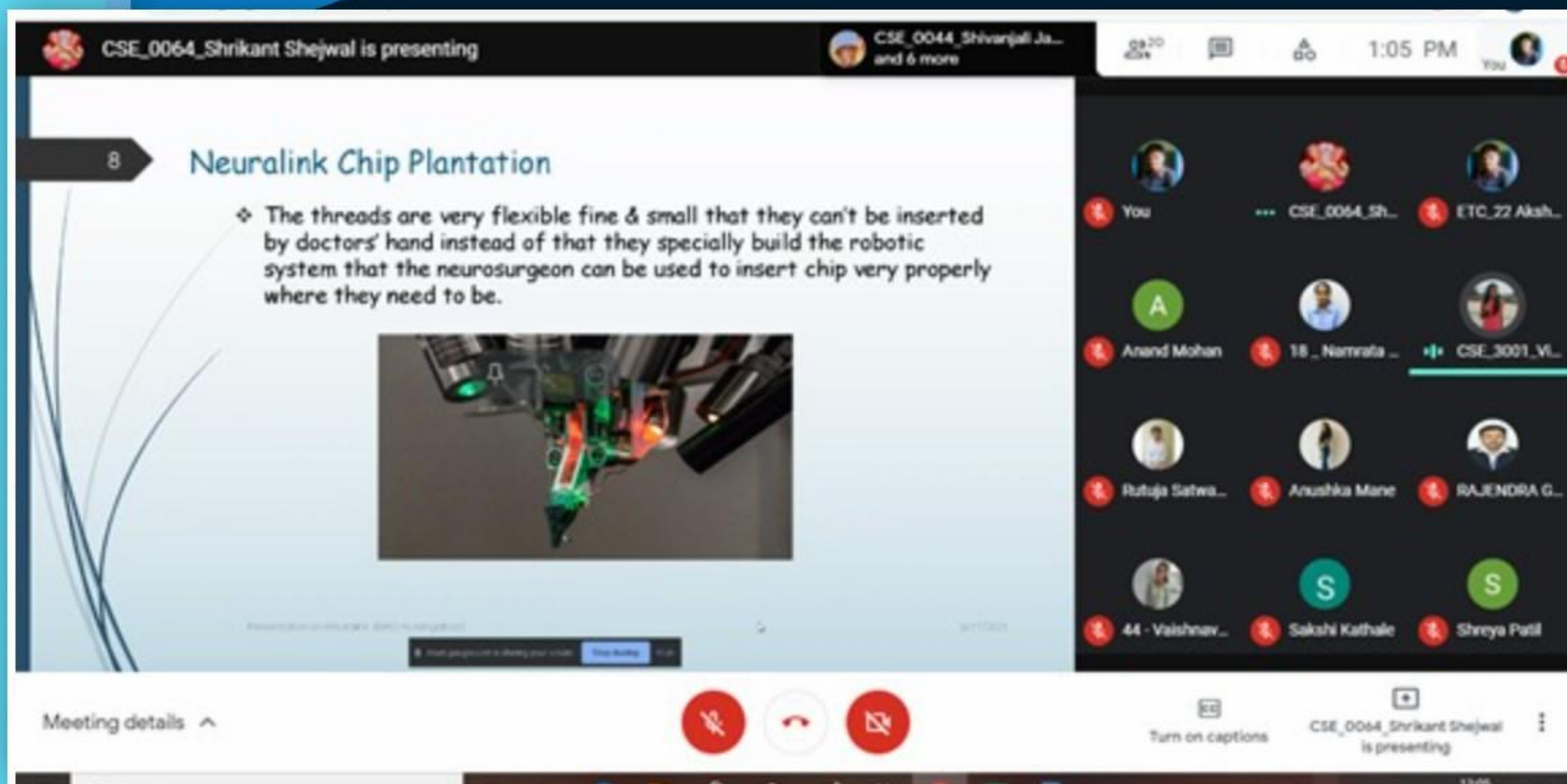
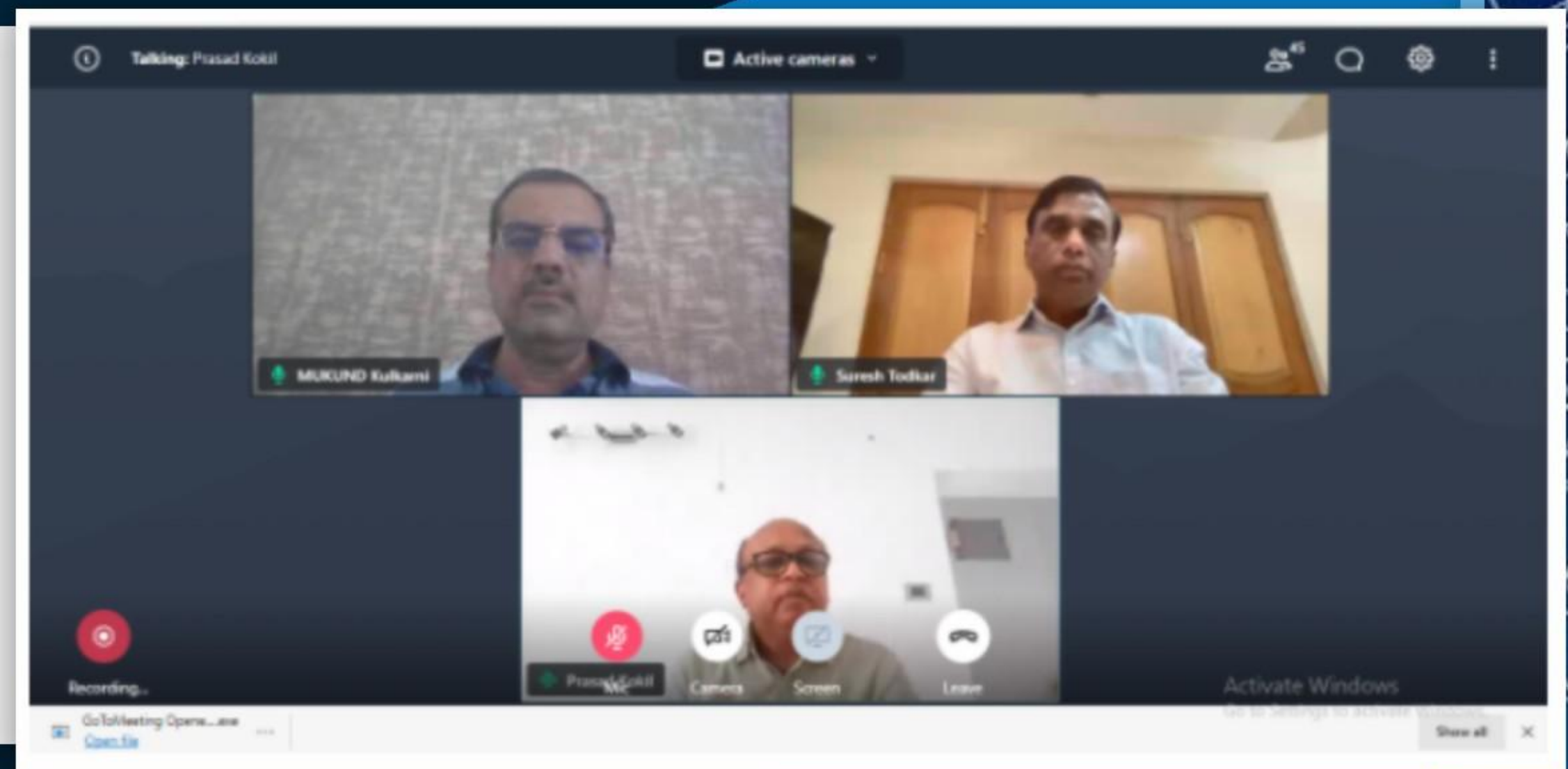
Data Visualization and Machine Learning Demystified using Python

Taught by: Rahul Dhagade

Panel Discussion on Atmanirbhar Bharat- Vocal for Local, Make In India for the world

Resource persons (Panellist):

1. Prasad Kokil, Sanjay Group of companies
2. Mukund Kulkarni, Expert Global solutions
3. Suresh Todkar, S. S. Control

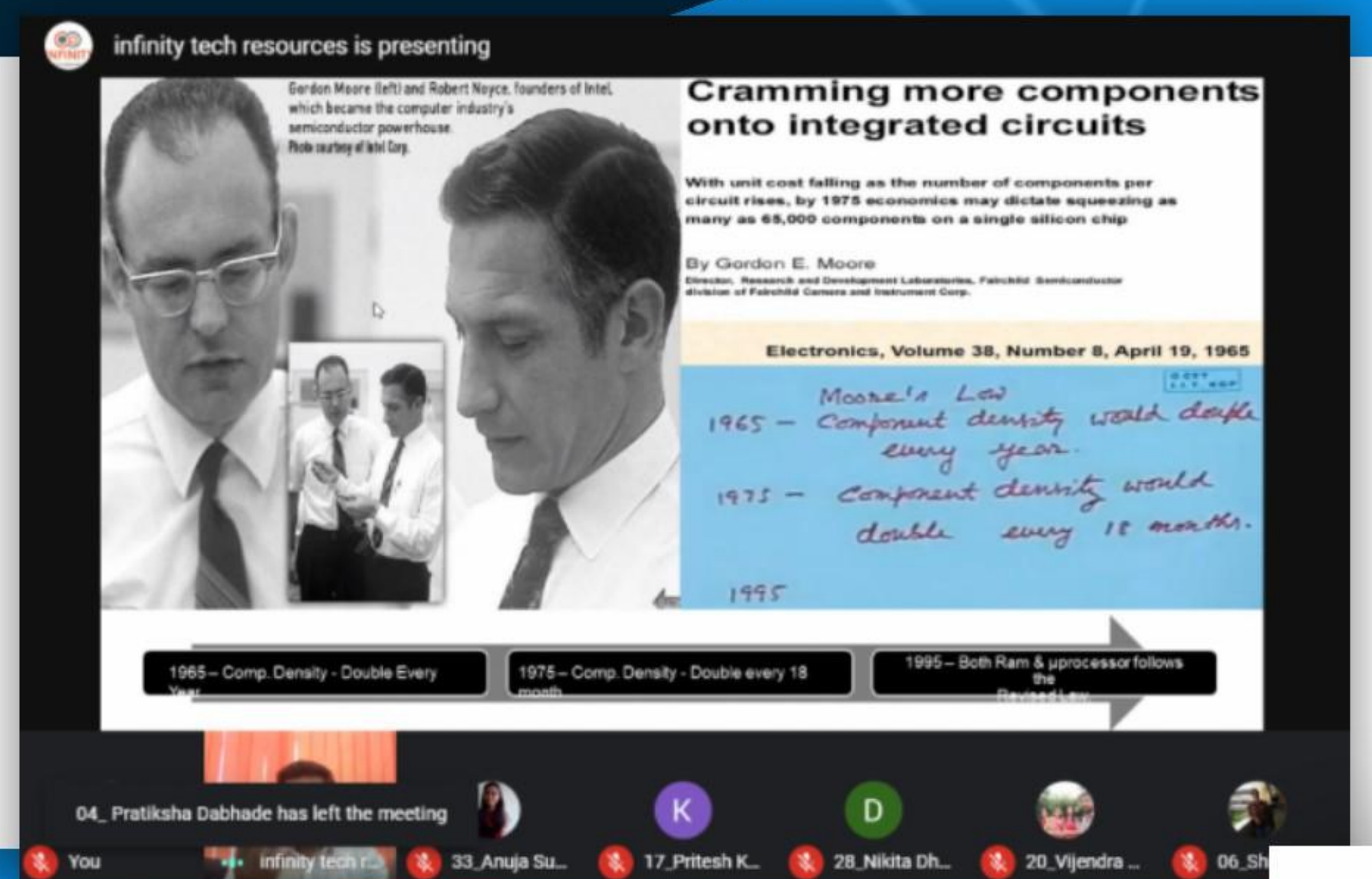


National Level Technical Mega Event Techno-Minds - 2K21

Dr. Geeta Tripathi
Dr. Deepak Bornare
Dr. Ram Kanhe
Dr. Santosh Bhosle

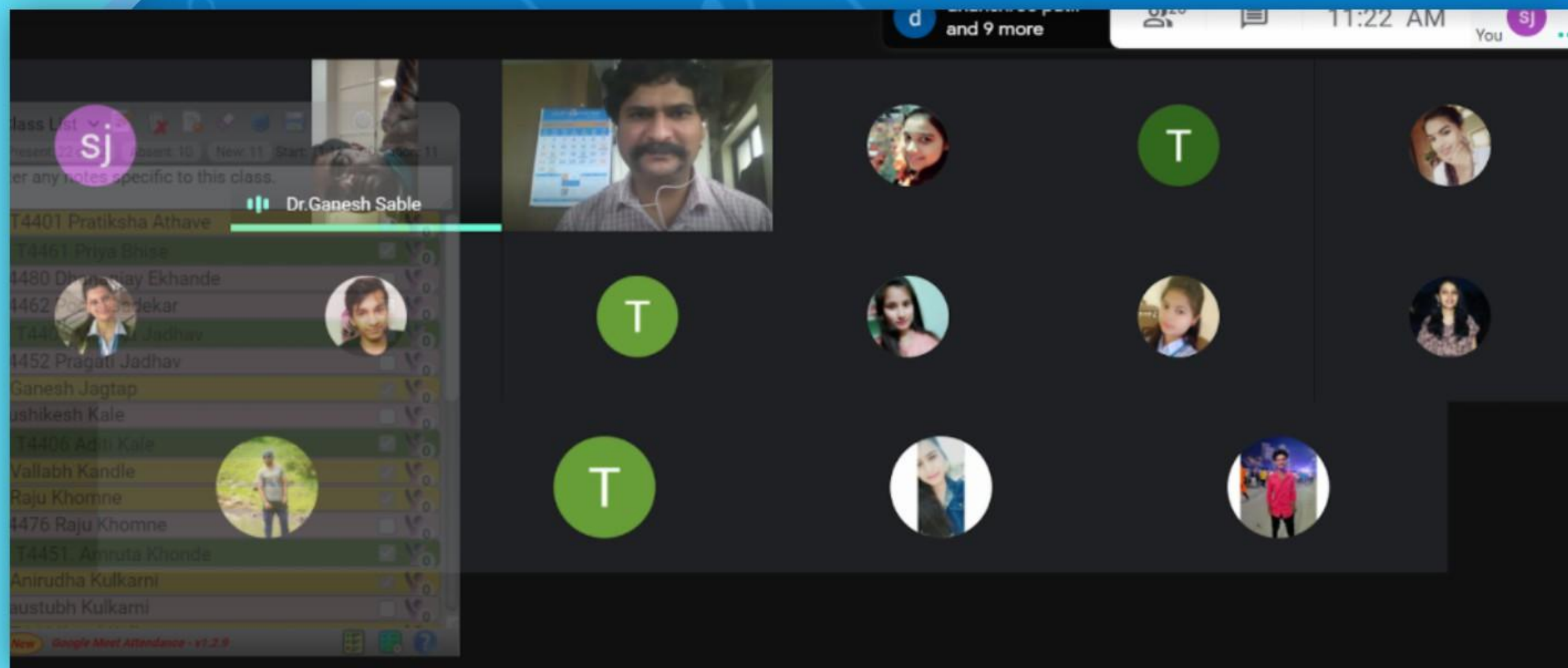
Expert Talk Advancements in Microcontrollers and Microprocessors

Resource Person:
Mr. Samuel Patole,
Founder and Owner Infinity Tech Resources





EVENTO

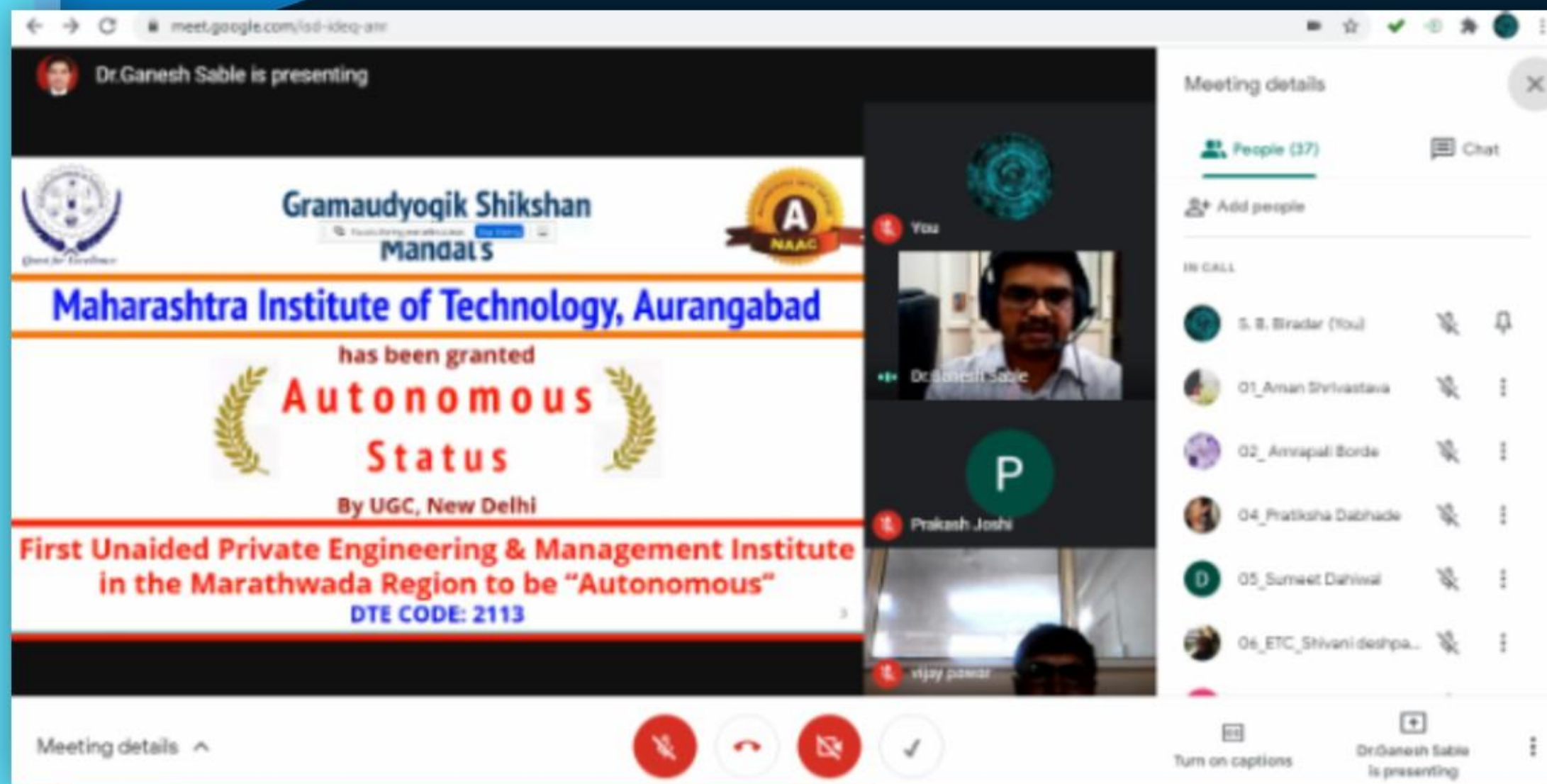
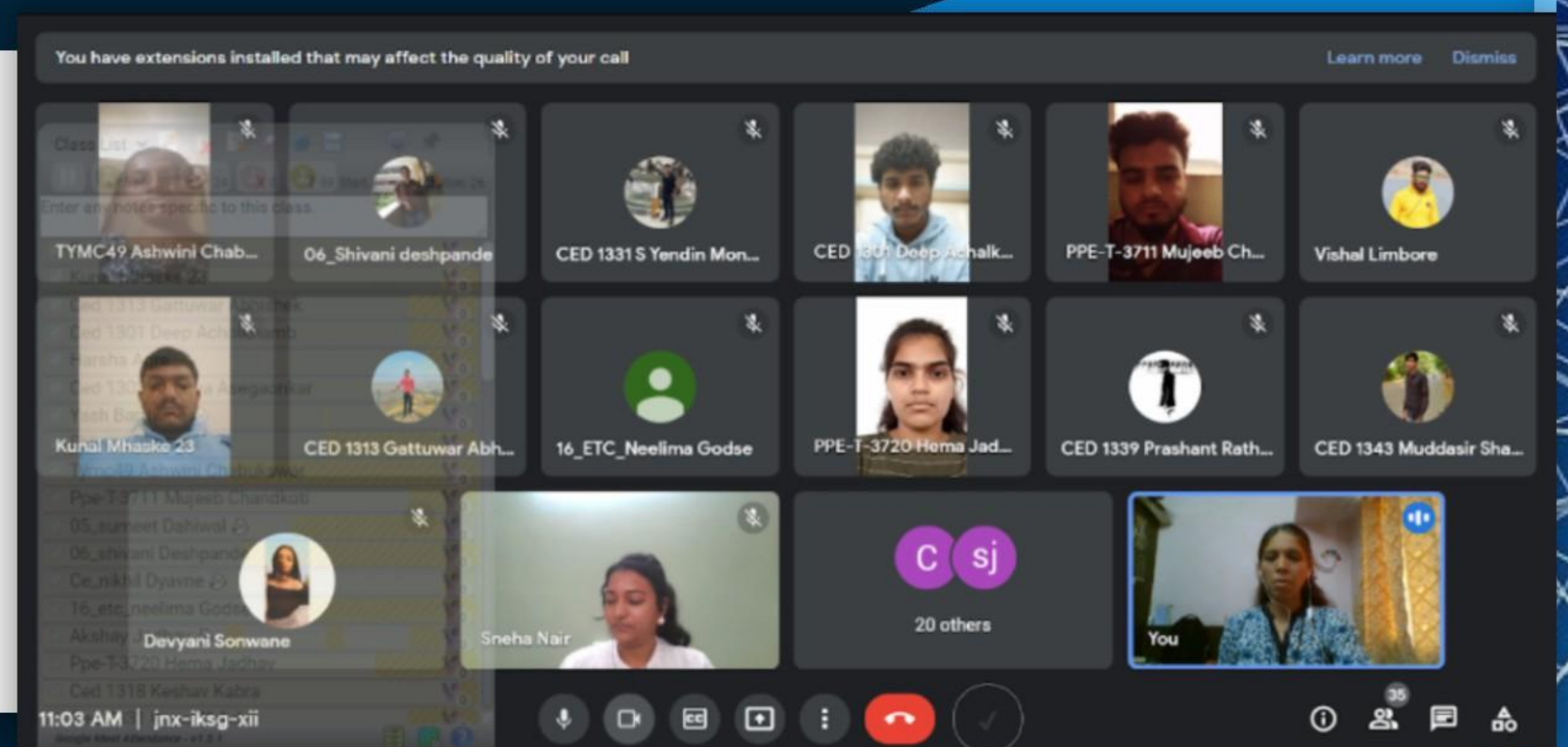


Expert Talk on Antenna and its application

Resource Person:
Mr. Anirudha Kulkarni

Expert talk on Smart city mission and its scope

Resource Person:
Ms. Sneha Nair (Project Manager, ASDCL)

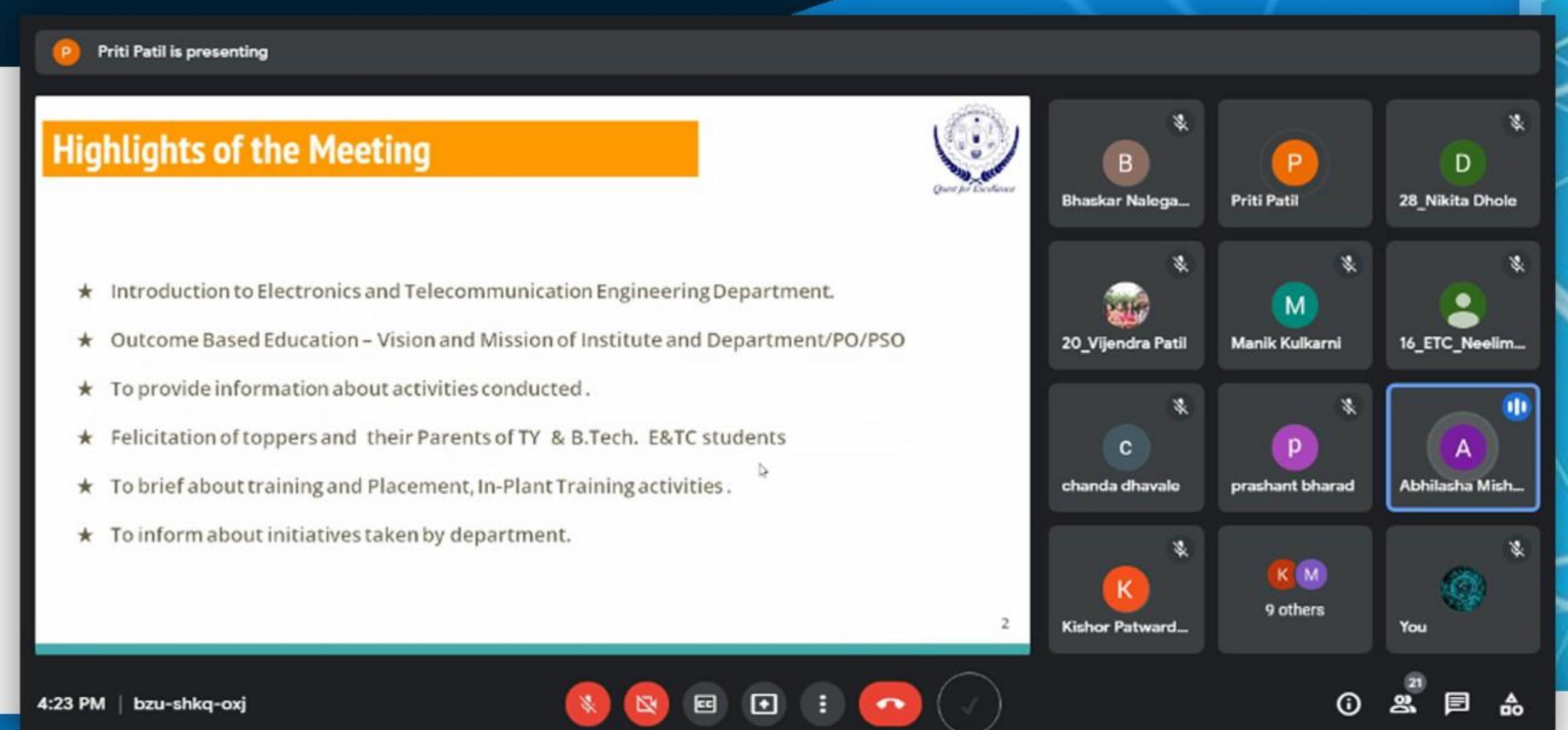


Parents meet: online mode

Date: 19/3/21

Parents meet: online mode

Date: 7/7/21



TALENTO



SURASHRI VIDEKAR (B,TECH)



SURASHRI VIDEKAR (B,TECH)



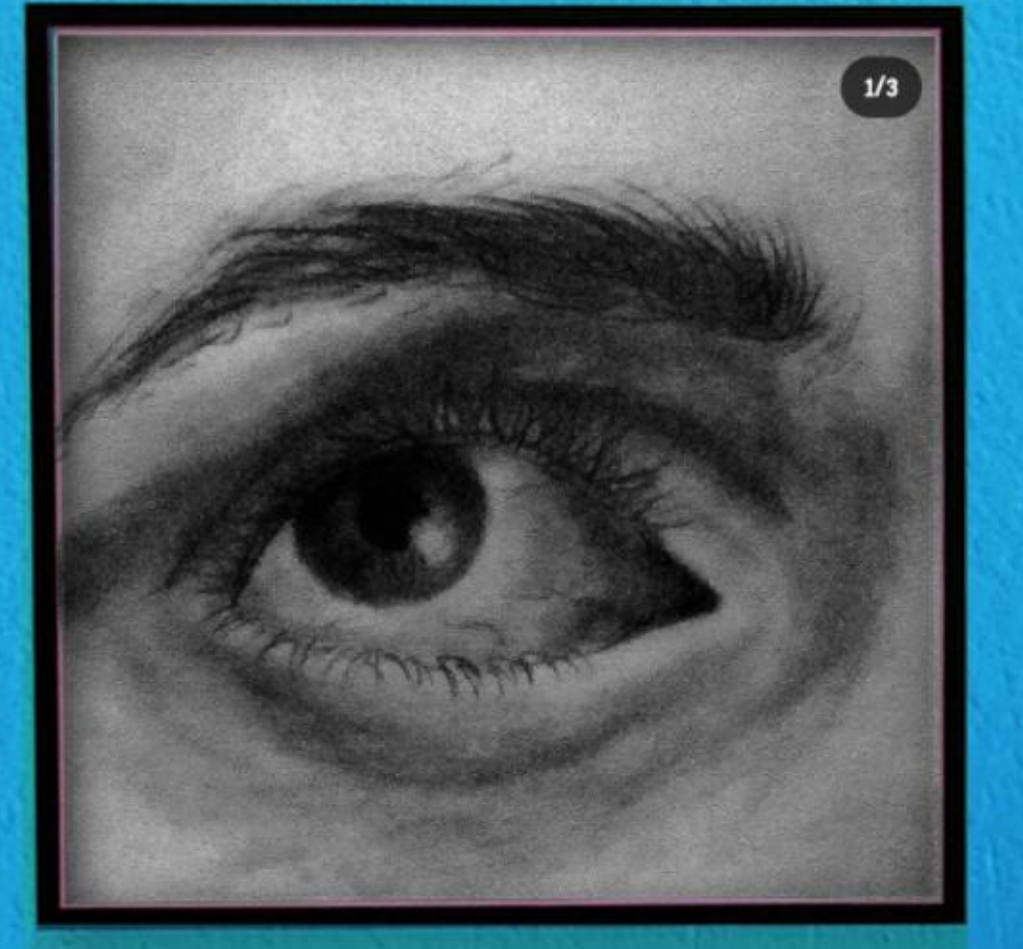
PRATIKSHA DABHADE (TV)



PRATIKSHA DABHADE (TV)



ANUJA SUVARNAPATHAKI (TV)



SAMRADNYEE CHINTAMANI (SY)



#कोरोनाला हरावचंय

कोरोना - आम्हाला झालाय आता तुम्हा यांगलाच परिचय,
मरे तुच आहेस तो, ज्याने आम्हाला आमच्याच घरात कैद केलस,
आणि ज्याने आम्हाला तावा- तावा अत वाहत लोंकडाकणच दिलंस!

तुच आहेस ज्याने आम्हाला शाळा- कॉलेजापासून केलस दूर
अत घरोघरी ऐकू येऊ लागलाय online Lecture अत
WORK From Home चा सूर.

तुच आहेस ज्याच्यामुळे गृहकलह वाढू लागलाय
जीव झालाय मातीमोल अत माणूस मुंगीप्रमाणे मरू लागलाय.

तुझ्यामुळे माणसासोबत आमचा "देव" ही कैदी झालाय
खंबीर आहोतच आम्ही, पण धीर हवूहवू सुरत पाललाय.

डॉक्टर, नर्सस, सफाई कर्मचारी सारे, ... सारे तुझ्याविरोधातला
लढा दिवसरात्र लढतायेत,
पुन्हा स्वच्छ सकाळ होईल या आशेवरच जगतायेत !

वघा तुझ्यामुळे सारं जग कस ठप्प झालाय
मार्ग जरी धुसर असला तरी दैव्य मात्रा करव आहे.

तुझ्यामुळे माणसाला केलेल्या कुकर्माची जाणीव होऊ लागलीय,
अत निस्वार्थी केलेली छेडखानी जरा जास्तच महागात पडू लागलीय

तरीही तु असं लको समजू, की आम्ही मोडलोय किंवा हरलोय
अदृश्य या शक्ती तरीही आम्ही करोशीवी लढतोय.



2021/6/4 16:45

आम्हाला माहितीये एकजूटीचं महत्त्व, आम्ही ते योग्यरित्या जोगतोय
अत म्हणूनच रोज उठून देवाकडे हे 'अनिष्ट' संपू-दे ही एकच प्रार्थना
करतोय.

पण आमचं आता हरलंय की हे सुद्धा आम्हीच निकाराच
सारे नियम कसोशीने पाळून कोरोनाला आता हरवावचं
कोरोनाला आता हरवावचं !!!

GAYATRI KULKARNI



ARTI PAWAR (SY)



SAMRADNYEE CHINTAMANI (SY)

ACHIEVEMENT

STAR PERFORMERS

E&TC Third Year Toppers 2020 - 2021



Amrapali Borde
Rank 1 (9.89)



Perna Bhosale
Rank 2 (9.85)



Priyanka Khedkar
Rank 3 (9.85)



Vaishnavi Gujar
Rank 4 (9.81)



Abhijeet Misal
Rank 5 (9.78)



Namrata Joshi
Rank 6 (9.74)



Neelima Godse
Rank 7 (9.7)



Vijendra Sakle
Rank 8 (9.7)



Shivani Deshpande
Rank 9 (9.56)



Saurabh Deshmukh
Rank 10 (9.56)

E&TC Final Year Toppers 2020 - 2021



Apoorva Kunde
Rank 1 (9.53)



Darshana Tangsale
Rank 2 (9.47)



Kaustubh Tulaskar
Rank 3 (9.47)



Videkar Surashri
Rank 4 (9.47)



Aditi Kale
Rank 5 (9.43)



Ujwal Patil
Rank 6 (9.43)



Priya Bhise
Rank 7 (9.33)



Bhagyashree Pardeshi
Rank 8 (9.3)



Monika Jadhav
Rank 9 (9.2)



Pratiksha Athave
Rank 10 (9.07)

Placement Year 2019-20

Hearty Congratulations...!!



VYANKATESH TIWARI
TATA COMMUNICATION LTD.



PRATIK SHAH
TATA COMMUNICATION LTD.



UTKARSH PANGLE
TATA COMMUNICATION LTD.



MAYUR SHIRSE
TATA COMMUNICATION LTD.

2020
Batch
Placements



AISHWARYA MISHRA
TATA COMMUNICATION LTD.



VAISHNAVI DESHMUKH
TATA COMMUNICATION LTD.



MAYURI DALE
TATA COMMUNICATION LTD.



PRATIKSHA DHUMAL
TATA COMMUNICATION LTD.



From: Management, Principal, Deans, Vice-Principals, HOD, All faculty Members & Students

RISING STARS



Name: **Aarti Sawle**

IPT at: **ISRO, Bangalore**

It was a great experience there. I and my team members worked there on a project that was allotted to us "Development of Visualisation and Reporting tools for Dynamic Test Data Analysis". During launch of a spacecraft, it experiences various types of dynamic loads. Dynamic tests are carried out to ensure that the spacecraft will withstand these dynamic loads without affecting its electrical functionality and mechanical integrity i.e. to qualify the spacecraft for launch vehicle environment. For understanding the mechanical behaviour of spacecraft, large numbers of points on the spacecraft (called responses) are monitored during the test. These responses are acquired and processed using a high-speed system called Data Acquisition System (DAS). This Data Acquisition System will generate the Universal File Format i.e. UFF file and we did some of analysis on that file they were given us different tasks like RMS calculations, Peak peaking, Development of cursor so that we can get the value at any position on graph, Reference profiling for characterise the signals behaviour, this responses can be reported by GUI by the reporting button. It was nice experience while working with the mentors of ISRO, Not only they helped us to improving our technical knowledge also helped us to improving our confidence in communication skill, we learned how to manage the task within time limit.



Name: **Apoorva Kunde**

IPT at: **U R Rao Satellite Centre, ISRO, Bangalore**

In the beginning of the IPT, we were given different options to choose for the project domain and we had chosen python programming language, because in spite of the fact that we are from electronics and telecommunication engineering we should have good coding skills and we took this challenge. Our project title was 'Development of Software Visualization Tools for Dynamic Test-data Analysis'. In This 20 weeks of IPT, we were supposed to develop a software for visualization and manipulation of UFF data so that domain experts can analyze and get valuable insights from it. Because of this pandemic situation, our IPT was conducted in work from home mode, therefore we faced many challenges like we were having virtual meetings so it was more difficult to understand and develop from virtual interaction. In the beginning of the IPT, our tasks were comparatively easy but as we were proceeding further our challenges were increasing. I learnt to work under pressure because we had to complete all tasks in a given time span and it was very challenging. Rather than coding I have spent more time on finding errors and solving them, because of this my problem solving skills have improved. Before this IPT, I was not good in English communication skills, but during IPT we were having our meetings and interactions in English which contributed to developing my English communication skills. Our industry mentors were so helpful and supporting, they helped us in every aspect like presentation skills, coding, explaining the concepts. This project helped in my overall development like soft skills, self-confidence, coding skills, problem solving skills. I am very grateful to get this opportunity to work at URSC, ISRO, Bangalore. I would like to thank MIT and ISRO for providing this opportunity. Thank you !!!



Name: **Aditya Puranik**

IPT at: **Tata Communications Ltd**

One of the renowned organizations in India. This training was a great opportunity to understand a completely different world beyond academia. During the training period, I got in contact with many seniors and field experts who not only helped me to grow intellectually but also helped me to understand a lot of nuances of professional life. Apart from core work in networking, I also observed and understood the importance of soft skills, emotional intelligence, etc.

I feel if academic learning for last 3 years has given me the wings, these 6 months of in-plant training has showed me the sky and gave me confidence to reach new heights. Duration of this training were six months during this period I received offer from industry for full time job for the role of network engineer....

I am extremely grateful to all the faculty members, seniors, placement cell officers and coordinators, friends, well-wishers and last but not least, my beloved family members who had always been there at every step to reach this first milestone in my professional journey. I wish all the best to my fellow batch mates and all the juniors for their future endeavours.

I would be available at adityapuranik1@gmail.com and would be happy to extend any possible support and or guidance if required to any of fellow batch mates and/or juniors.

RISING STARS



Name: **Surashri Videkar**
IPT at: **ISRO Bangalore**

I am glad to share my IPT experience. I worked on the project with my team on Development of Visualisation and Reporting tools for Dynamic Test Data Analysis. My work experience with ISRO was extremely helpful in not only technical aspects but building my confidence as well. I have learnt so much in this 20 weeks IPT, at the very beginning we were provided with a choice of field to choose for the project. Decided to go for acaustical dynamics using python programming language as it was taught to us in the final semester and we were in touch with the concepts, tasks became more challenging as the time passed but our mentors always guided us. I have learnt a lot in this project as how to create GUI and analyse the provided data. Effect of the pandemic situation was huge, as we could not practically visit the workplace and see the actual implementation, but we tried to understand the concepts via virtual meetings and perform the given tasks on time. I would like to suggest if you are interested in space related technologies and getting a chance for IPT in ISRO one should opt for it and make the best out of it as URSC provides interdisciplinary applications, so there are a lot of choices to choose your project of interest.

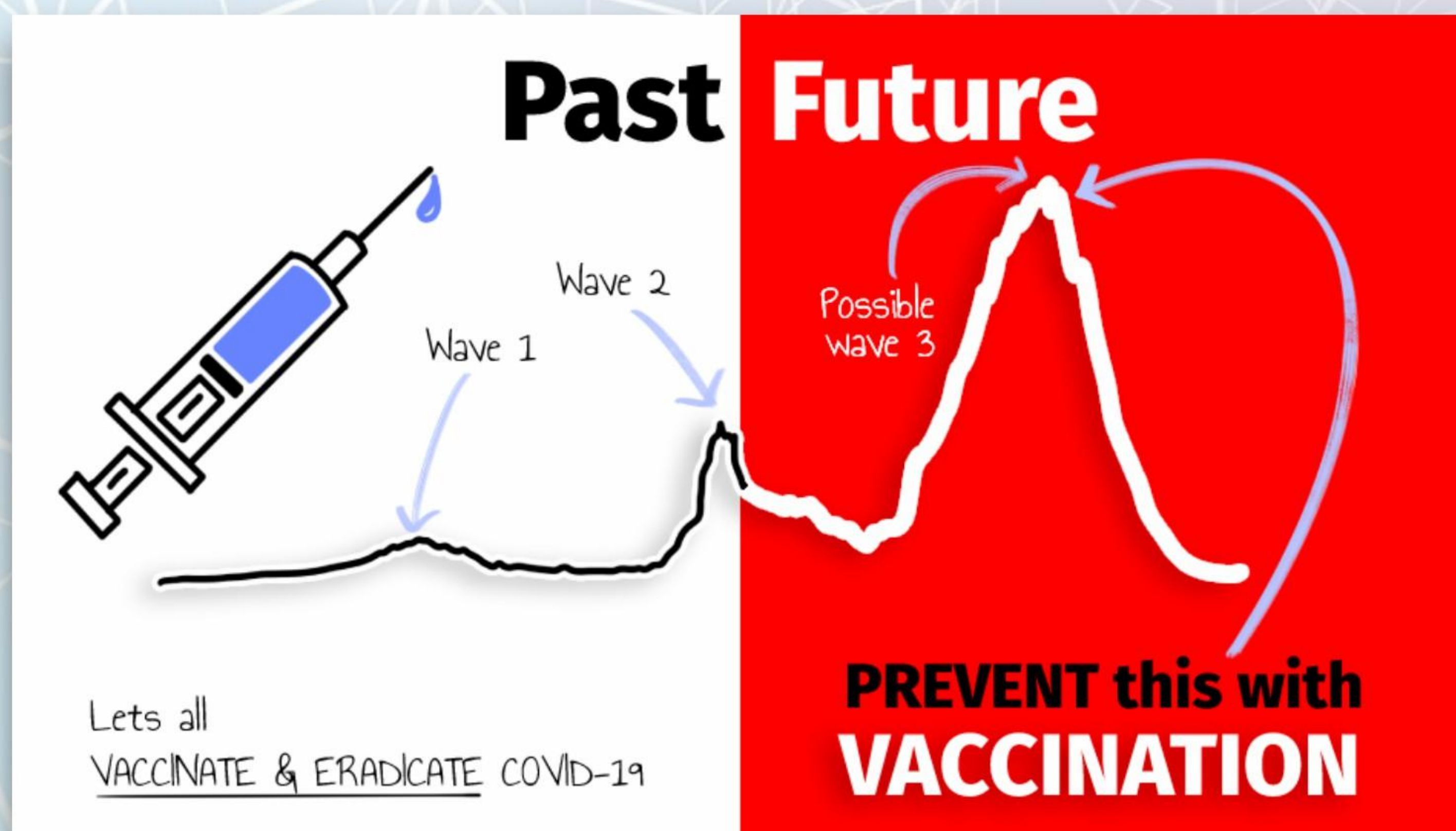


Name: **Tejashree Deshpande**
IPT at: **ISRO**

Hello..I am really glad to share my Inplant training experience which is done from ISRO...It was wonderful experience for me..Really very helpful for developing my skills and Knowledge as well..I got to learn new things everyday.. Also the most important thing is it helped me to learn as well as to develop professional ethics and etiquettes.. Thank you to my college and teachers to give me such a great opportunity to turn my life towards progress..



Nothing is perfectly safe, and neither is IoB. With all this data, There could be some potential dangers lurking about, of which we have no idea. IoB is still in its early days, so we have to wait and see...



We saw a big digital surge during this pandemic. This may bring about a rise in Cybercrimes. So, we should all spread awareness about safety while using the devices. Also, we have to spread awareness about safety during the pandemic, and let's all Vaccinate and Eradicate COVID-19.

Editorial Board



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Dr. Abhilasha Mishra



Executive Editor
Ms. K.R. Khandagle

Creative Heads



**Pratiksha
Dabhade (TY)**



**Sumati
Ladane (TY)**



**Akshay
Sonawane (SY)**



**Gladson
Thomas (SY)**