



## DEPARTMENT OF INFORMATION TECHNOLOGY

### **Institute Vision**

"To be globally acclaimed Institute in Technical Education and Research for holistic Socio-economic development".

### **Institute Mission**

- To ensure that 100% students are employable and employed in Industry, Higher Studies, become Entrepreneurs, Civil / Defense Services / Govt. Jobs and other areas like Sports and Theatre.
- To strengthen Academic Practices in terms of Curriculum, Pedagogy, Assessment and Faculty Competence.
- Promote Research Culture among Students and Faculty through Projects and Consultancy.
- To make students Socially Responsible Citizen.

### **Message from HoD's Desk**

*"We are confident enough that our Engineers will emerge as assets not only to this institution and to the organization, but also to the country at an extent. Along with academic knowledge we also train our Engineers to face the challenges in life by providing many value added courses to enhance their career prospects. The excellent infrastructure, teaching faculty of the best kind ensuring quality education such as interaction among students, parents and staff, along with Training & Placement Cell ensuring a bright future to our students."*

# ITVishwa

Volume 4 / Year:2021-2022, Issue- 1

### **Department Vision**

"To provide student-centered state-of-the-art academically enriched environment for productive careers in the world of computing through creativity and innovation"

### **Department Mission**

- To promote aspiring ethically conscious engineers demonstrating sustainable employability and entrepreneurship.
- To impart quality education with the focus on analytical and problem-solving skill development.
- To foster inspired scholarly environment through active student-faculty participation in research and development resulting in new knowledge-base or insights.
- To prepare students to shoulder social responsibilities by application of their skill set for betterment of society.

# “STUDENTS CLUBS”



Bansilal Ramnath Agarwal Charitable Trust's  
**Vishwakarma Institute of Technology**

(An Autonomous Institute affiliated to Savitribai Phule Pune University)

## DEPARTMENT OF INFORMATION TECHNOLOGY



Bansilal Ramnath Agarwal Charitable Trust's  
**VISHWAKARMA INSTITUTE OF TECHNOLOGY, PUNE**  
(An Autonomous Institute affiliated to Savitribai Phule Pune University)  
**Department of Information Technology**  
**GedIT Coding Club**

The image shows a collection of logos for various programming languages and tools. From top to bottom, left to right: Bash (terminal icon), Android (robot icon), R (blue 'R' in a circle), C++ (blue 'C++' in a circle), GedIT (green and blue logo), php (blue 'php' in a circle), Microsoft .net (blue and red logo), Java (red and white logo), python (blue and yellow logo), and a computer monitor with a hand cursor pointing at the screen.



GedIT Programmer's Club has 5 different committees :**C/C++**, **Java**, **Android** and **Machine Learning**.

Each Committee has two Programming Heads/Trainers who will train you and develop your logical reasoning and understanding in that respective Programming Language

Computer Society of India (CSI) conducts various Technical Expert sessions, workshops, webinars for students development.



# ITVishwa



# “STUDENTS CLUBS”

## Total Count::250+

Student Coordinator:

Vaishnav Sonawane

Pranav Ratnaparkhi

Alak Koul



**GedIT** Vishwakarma Institute of Technology, Pune

### An Introduction to Git & GitHub

**Aneesh Khandelwal**  
TY-MCA

**Shailesh Kadam**  
B.TECH-IT

Department Of **IT**

17th July, Saturday  
4pm - 6pm

Google Meet /gedit.vit

# IT Vishwa

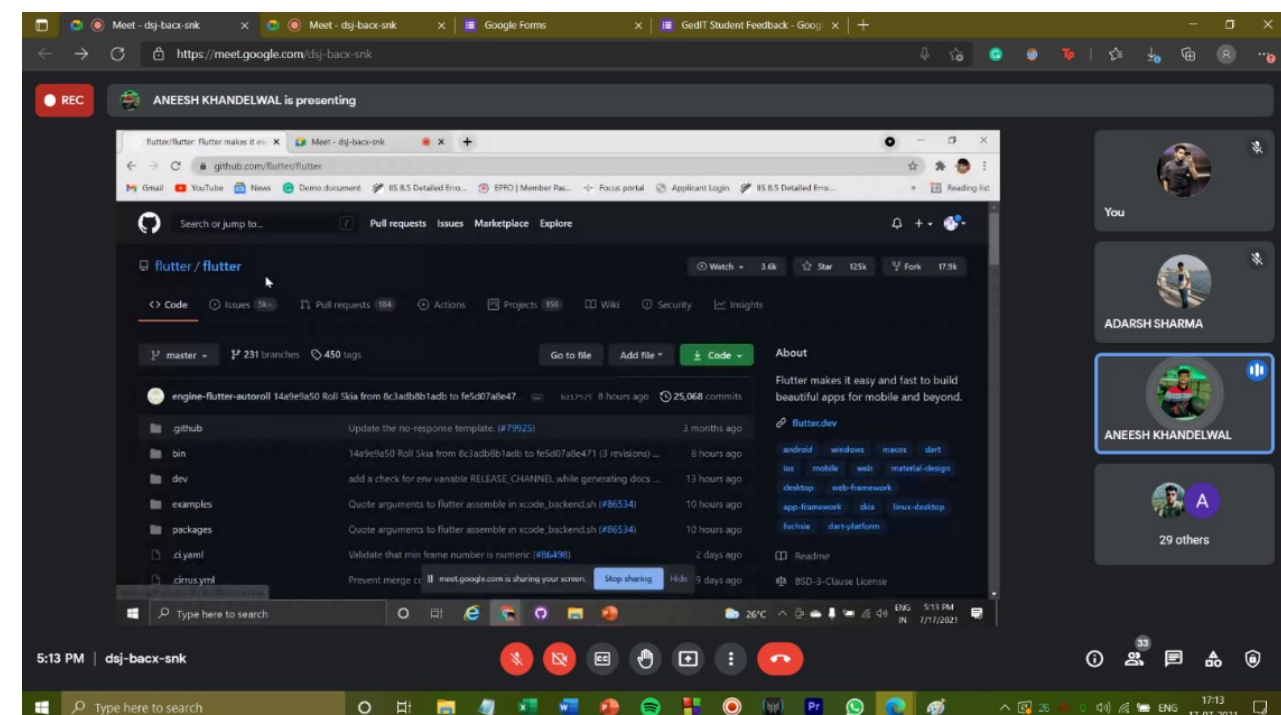
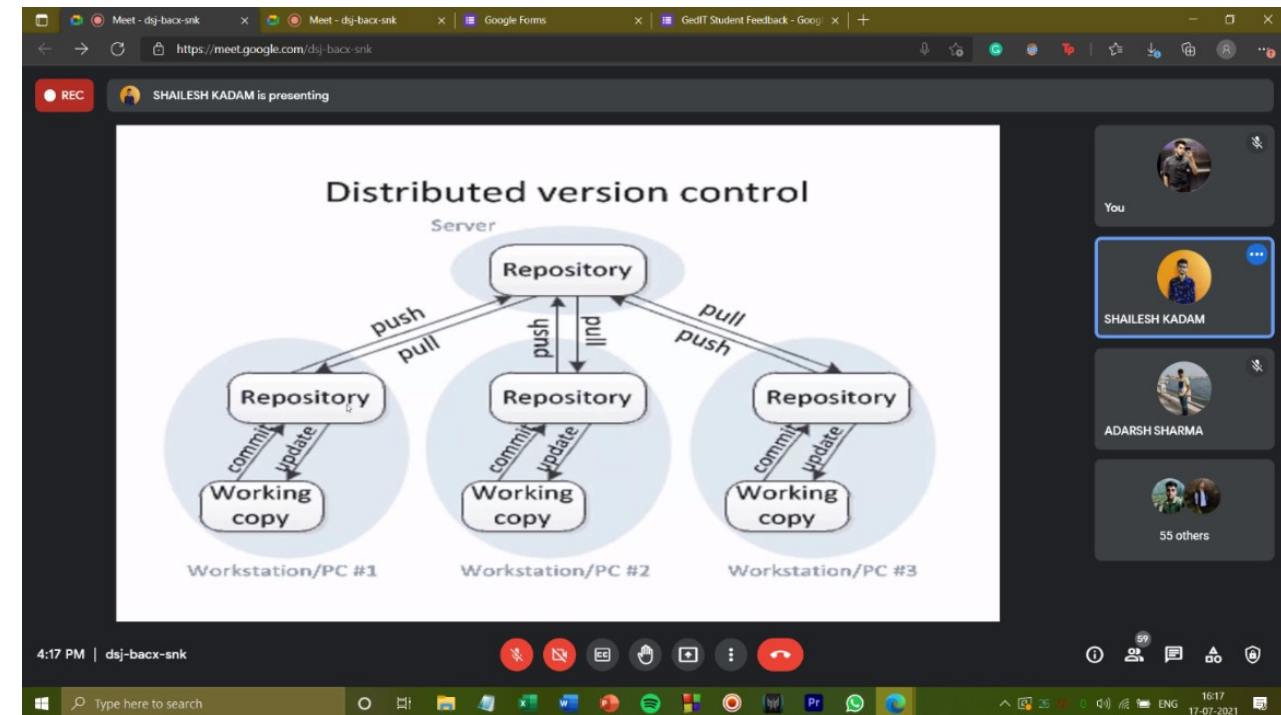


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## DEPARTMENT OF INFORMATION TECHNOLOGY

The “GedIT” is a club organised by the IT students that mainly focuses on training and developing the coding skills of the fellow members who have joined the club for learning various diversities of Coding and Design.



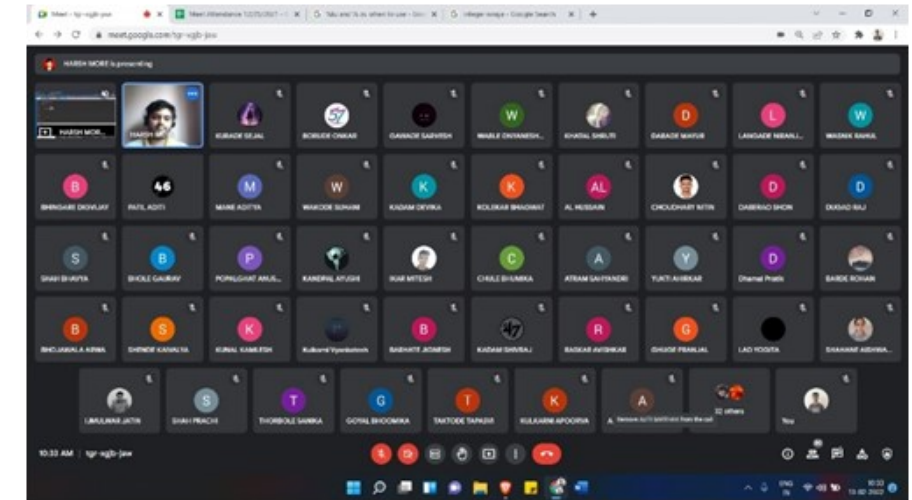
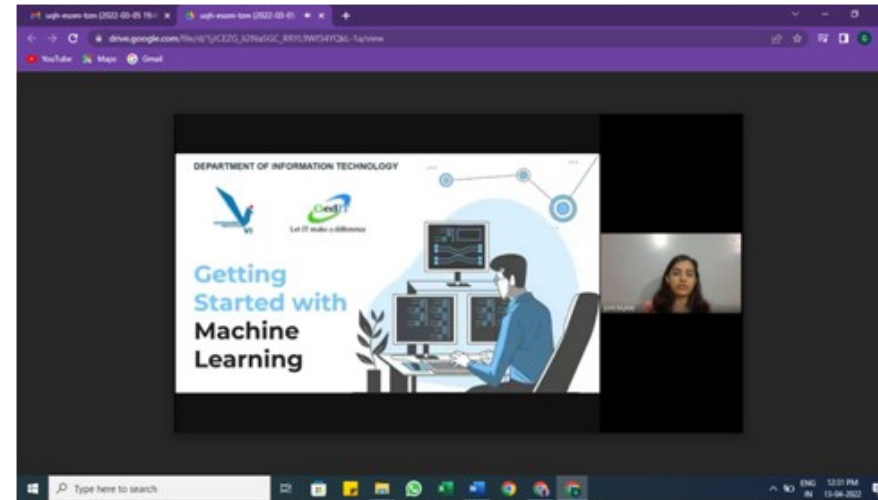
# “STUDENTS CLUBS”



### Names of trainers:

#### C and C++ Programming:

1. Ms. Alak Koul
2. Mr. Pranav Ratnaparkhi,
3. Ms. Mrunalini Ekhar,
4. Mr. Harsh More,
5. Ms. Vaibhavi Shetty
6. Ms. Sanika Rawate



#### Android:

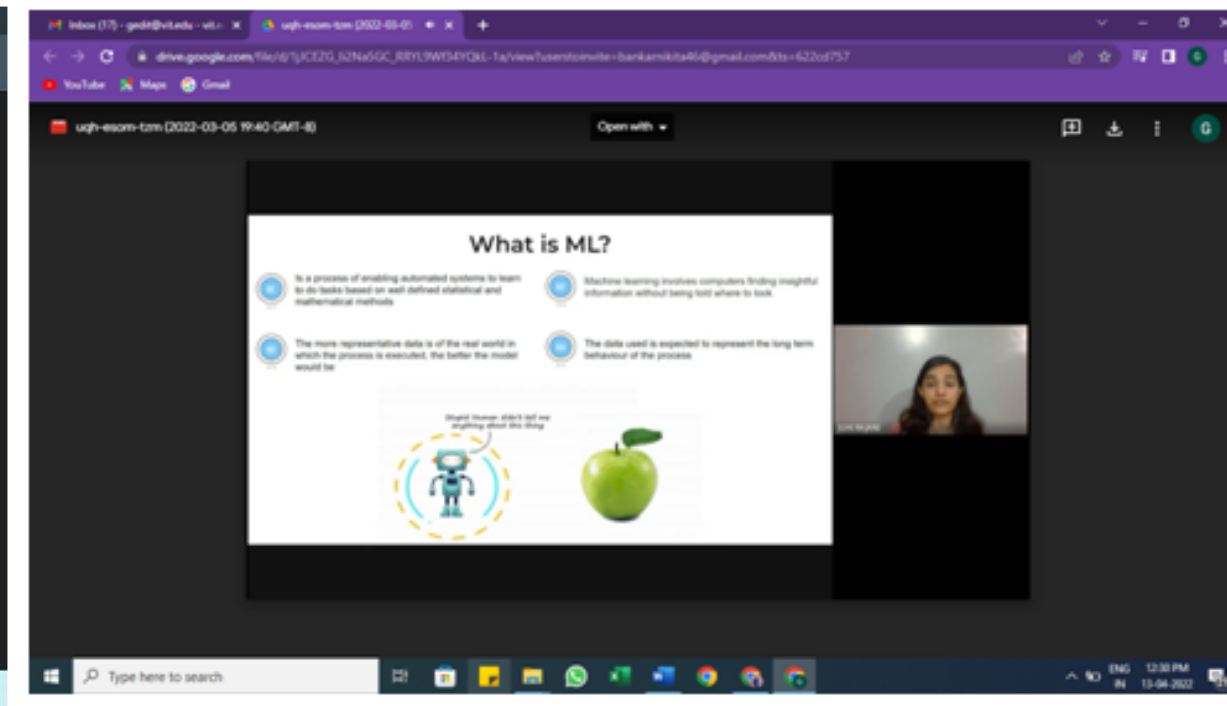
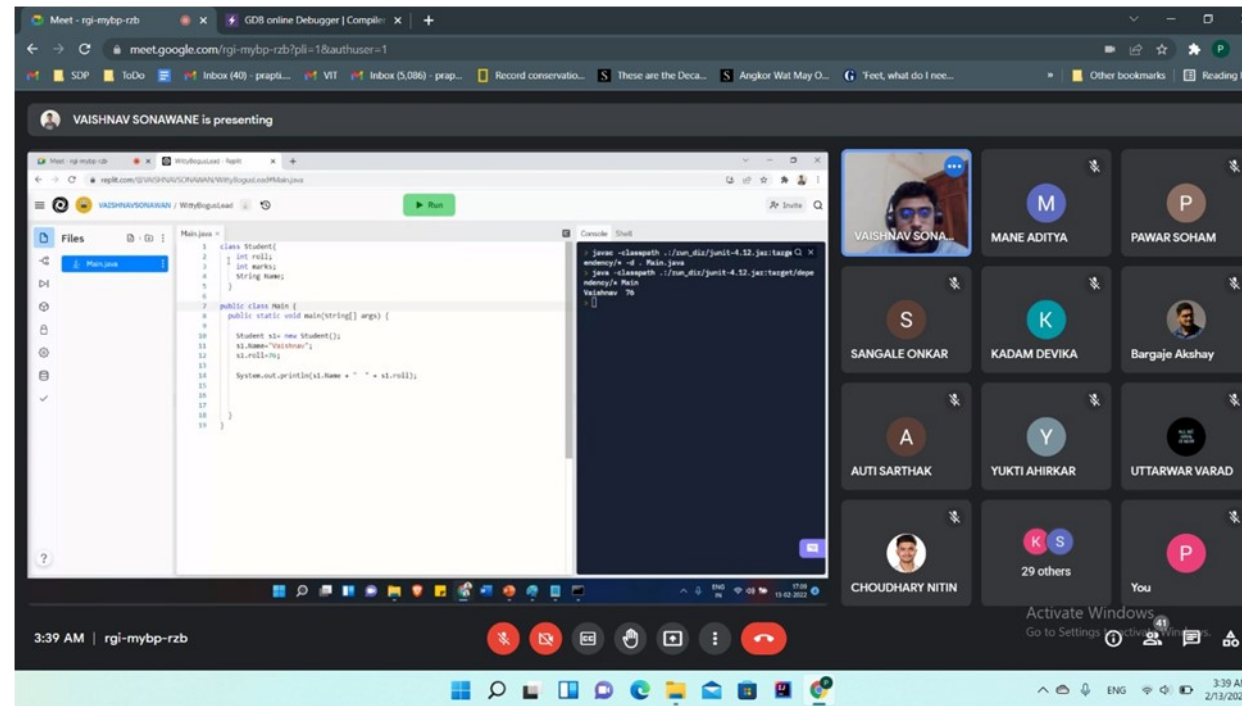
1. Mr. Jayesh Deshmukh,
2. Ms. Anuja Dargode

#### Java programming

1. Mr. Jayesh Deshmukh,
2. Mr. Vaishnav Sonawane

#### Machine Learning

1. Mr. Dhruva Khanwelkar,
2. Ms. Nirvisha Soni
3. Ms. Juhi Rajani









**VISHWAKARMA INSTITUTE OF TECHNOLOGY, PUNE**  
Department of Information Technology

In association with CSI Student Chapter and GedIT Coding Club

**WEBINAR**

**1 IDEA | 1 PATENT : Road Ahead to SUSTAINABLE START-UP (100% SPONSORSHIP) Lab to Land | Mind to Market**

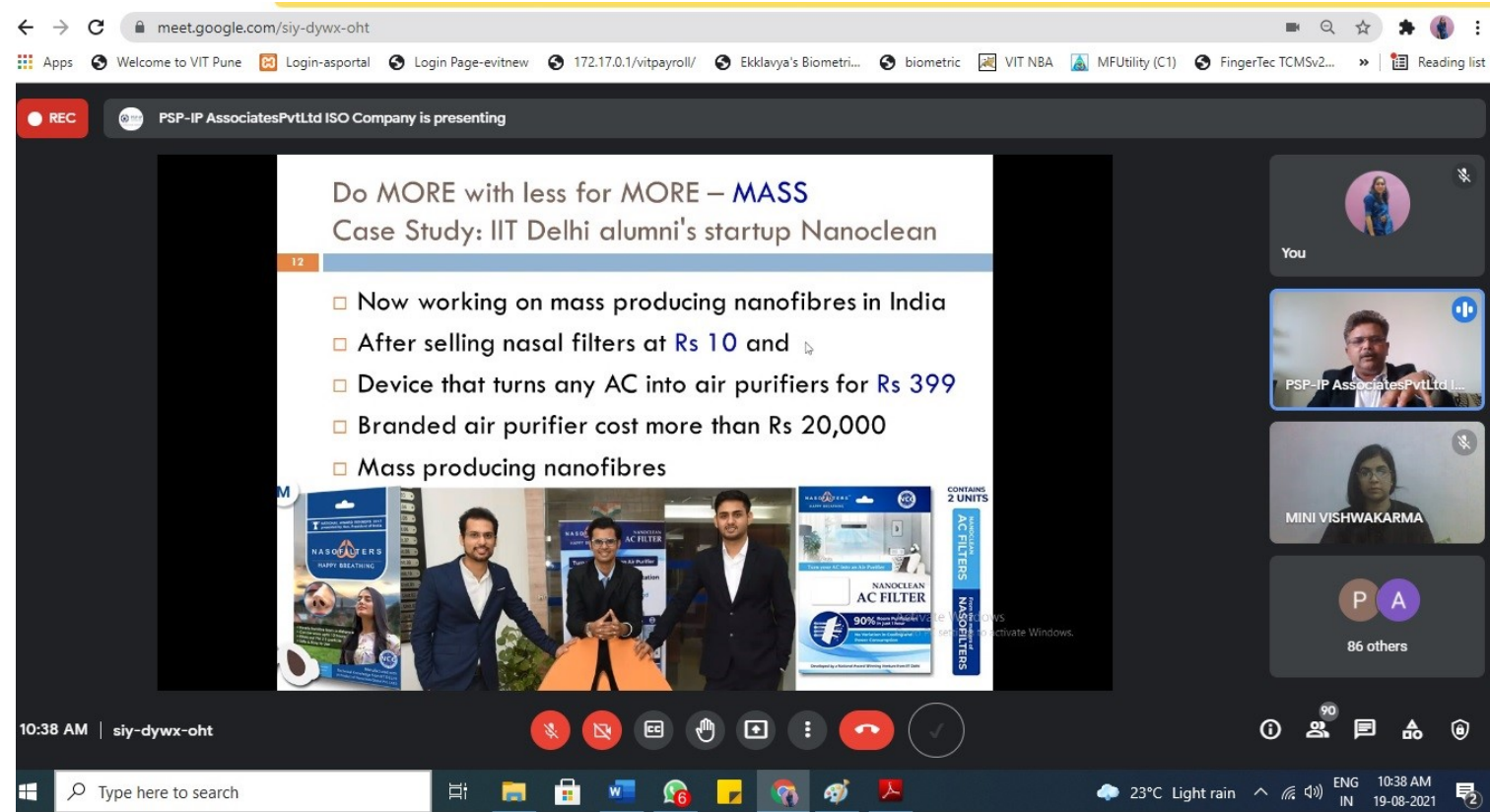
19<sup>th</sup> Aug 2021  
10 AM to 12 PM

Scan to Join





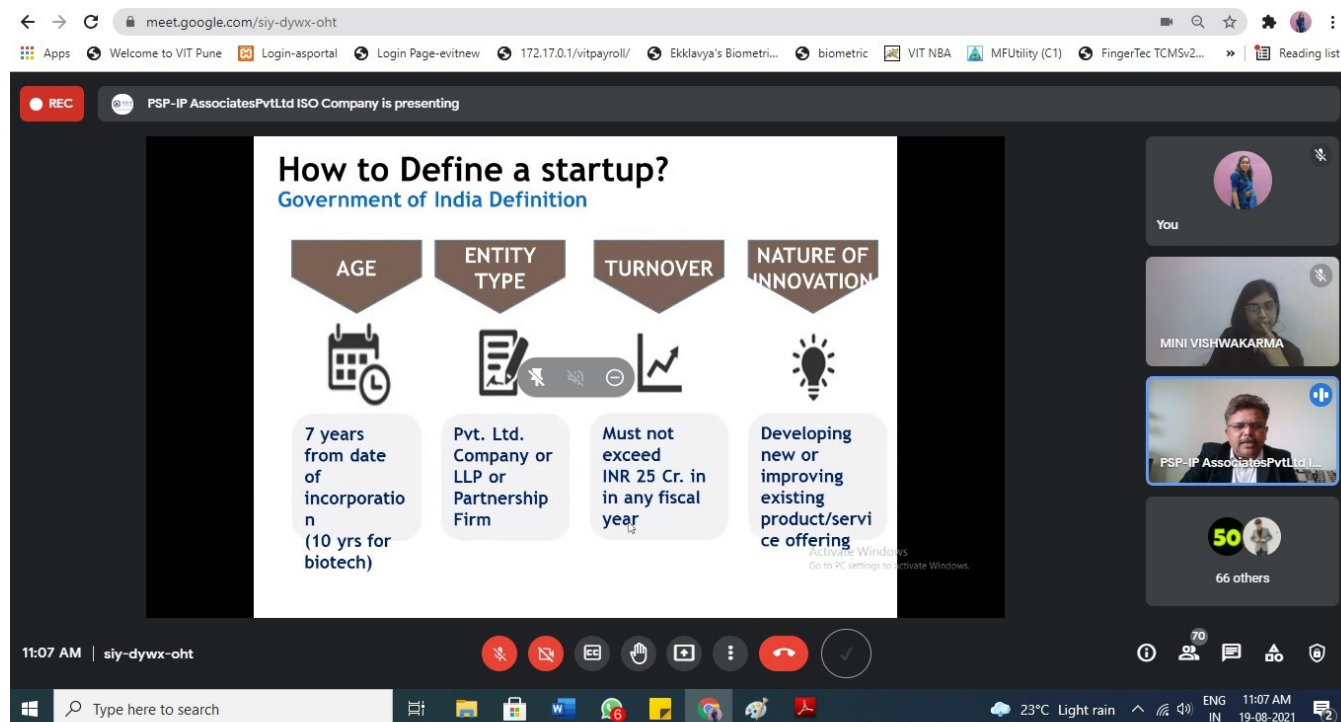
**Adv. (Dr.) Er. Suryakant Patil**  
MD & CEO, PSP IP Patent Attorneys & Ministry of Education IIC Start-Up Mentor



**Do MORE with less for MORE – MASS**  
Case Study: IIT Delhi alumni's startup Nanoclean

- Now working on mass producing nanofibres in India
- After selling nasal filters at Rs 10 and
- Device that turns any AC into air purifiers for Rs 399
- Branded air purifier cost more than Rs 20,000
- Mass producing nanofibres

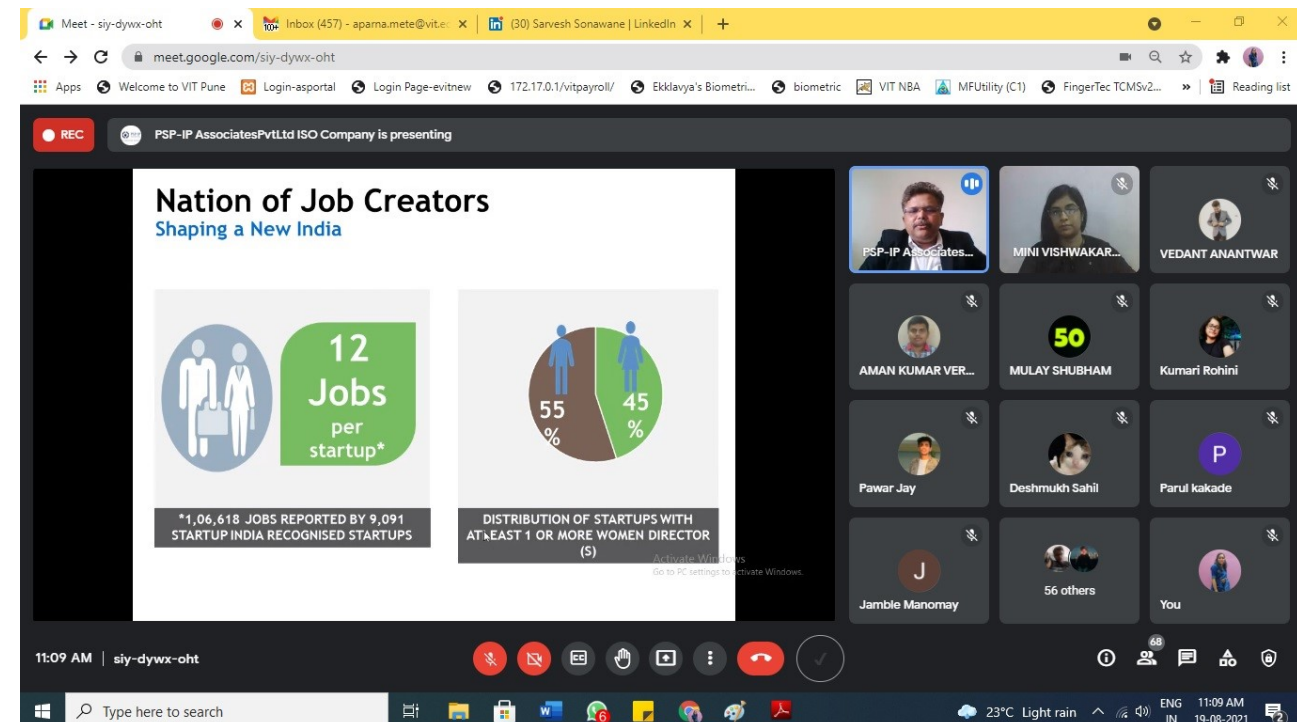
10:38 AM | siy-dywx-oht



**How to Define a startup?**  
Government of India Definition

| AGE                                                     | ENTITY TYPE                                  | TURNOVER                                      | NATURE OF INNOVATION                                          |
|---------------------------------------------------------|----------------------------------------------|-----------------------------------------------|---------------------------------------------------------------|
| 7 years from date of incorporation (10 yrs for biotech) | Pvt. Ltd. Company or LLP or Partnership Firm | Must not exceed INR 25 Cr. in any fiscal year | Developing new or improving existing product/service offering |

11:07 AM | siy-dywx-oht



**Nation of Job Creators**  
Shaping a New India

- 12 Jobs per startup\*
- \*1,06,618 JOBS REPORTED BY 9,091 STARTUP INDIA RECOGNISED STARTUPS
- DISTRIBUTION OF STARTUPS WITH AT LEAST 1 OR MORE WOMEN DIRECTOR (S)
- 55% (Male) / 45% (Female)

11:09 AM | siy-dywx-oht





# "STUDENTS CLUBS"



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## DEPARTMENT OF INFORMATION TECHNOLOGY



All about

# Placements and Internships



Vishwakarma  
Institute  
of Technology, Pune



Prasanna Akolkar  
CREDIT SUISSE



Shailesh Kadam  
NVIDIA



Preeti Oswal  
vmware



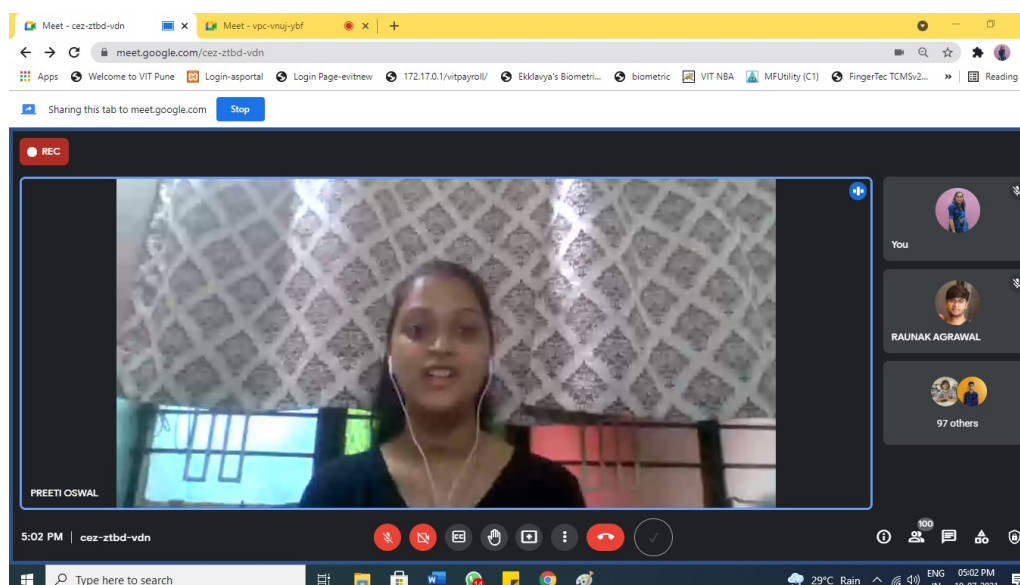
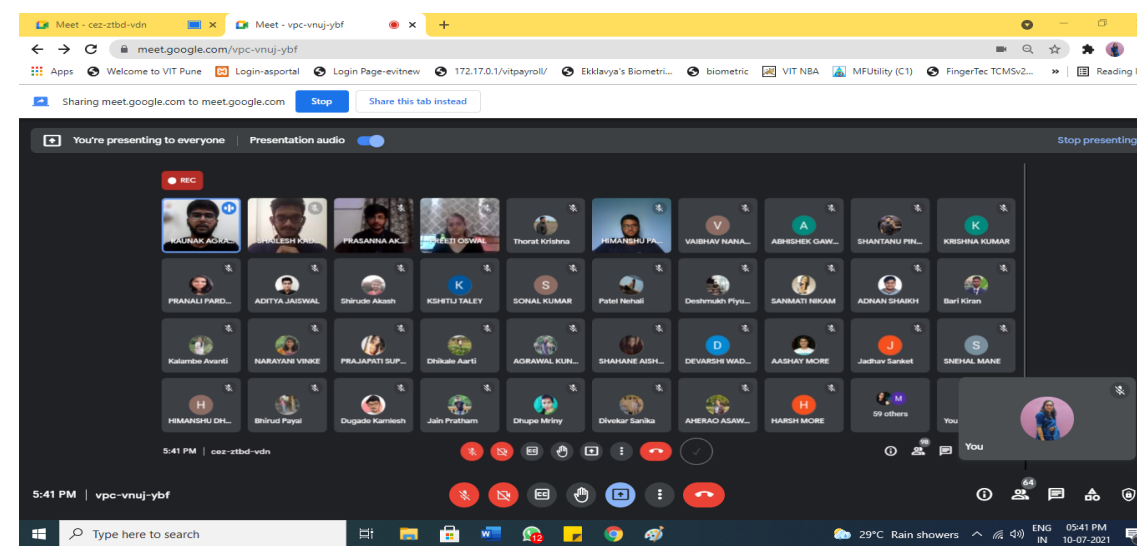
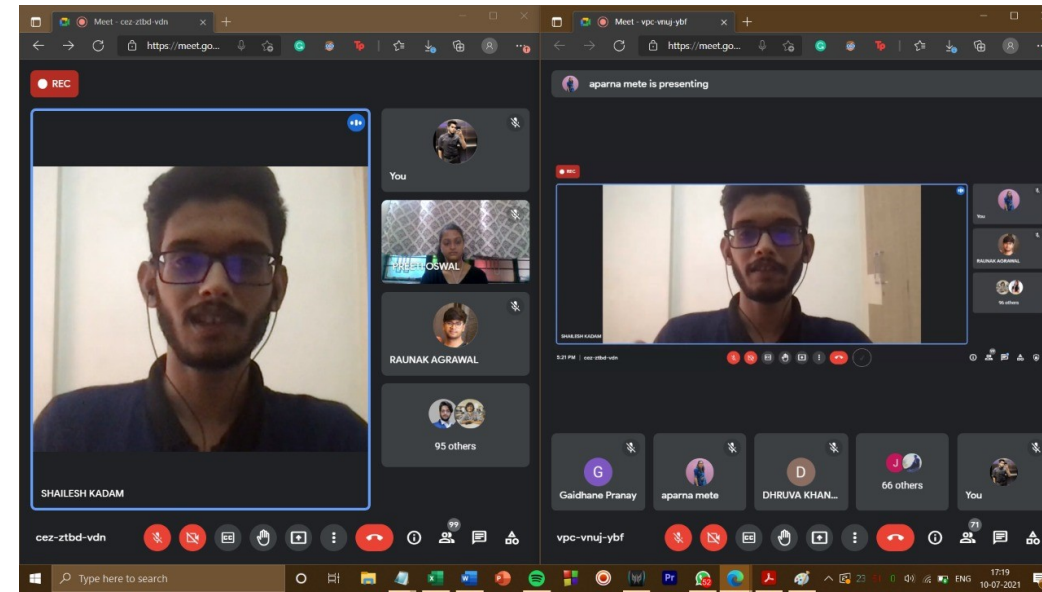
Himanshu Pandey  
vmware



10<sup>th</sup> July,  
Saturday  
4 P.M. to 6 P.M.

Department of  
IT

[in /gedit-coding-club-vit-pune](#)  
[f /gedit.vit](#)



ITVishwa



# “STUDENTS CLUBS”



Department Of IT Vishwakarma Institute of Technology, Pune

## All About Argumented Reality (AR) & Virtual Reality (VR)



**Dr. Dattatray Parle**  
M.Tech & Ph.D. IIT Bombay  
Technology Expert at Simulation Centre

24th July, Saturday, 4pm - 6pm

[/gedit.vit](#)

drive.google.com/file/d/13\_vAlqLEnsX6jcyByu-CP3U8vHcEtV/view

## Unix Commands

- Each command performs [variations of] a single task
  - “options” can be used to modify what a command does
  - different commands can be “glued together” to perform more complex tasks
- Syntax:
 

```
command options arguments
```

Examples:

| Command | Options | Arguments    |
|---------|---------|--------------|
| pwd     |         |              |
| cd      |         | /home/debray |
| ls      | -a      | /usr/local   |
| ls      | -al     | /usr/local   |

4:26 / 1:58:02

## Webinar on Linux Commands

Expert: Prof. A. R. Sawant Date: 09/10/2021



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## DEPARTMENT OF INFORMATION TECHNOLOGY

meet.google.com/ahm-noza-xpf?pli=1&authuser=1

REC Dr. Dattatraya Parle is presenting

### What is Mixed Reality (MR)?

- Mixed reality (MR), sometimes referred to as hybrid reality, is the merging of real and virtual worlds to produce new environments and visualizations where physical and digital objects co-exist and interact in real time.
- Examples
  - Military Training
  - Remote Working
  - Healthcare - Surgeries



4:58 PM | ahm-noza-xpf

meet.google.com/ahm-noza-xpf?pli=1&authuser=1

REC

In-call messages

Let everyone send messages

Amrapali Waghmare 3:59 PM  
Good evening sir

Amrapali Waghmare 4:10 PM  
Yes audible

Mutalik Tanmay 4:16 PM  
screen not visible for me

UMESH KADAM 4:16 PM  
screen is not visible

aparna mete 4:56 PM  
I am leaving meeting as I am having departmental meeting

Rahul Ghosh 5:13 PM  
one the major challenges to adoption of 6DOF VR headsets by the masses in India is that its quite expensive and headsets are not easily available, we know that social VR has the highest potential but this needs many people to own headsets , what be done to overcome this?

5:39 PM | ahm-noza-xpf



Vishwa  
IT

**Total Number of CSI Chapter Members:**

**160**



**ITECH UPDATE**

| Sr. No. | Date       | Speaker                                                                                     | Topic                                               |
|---------|------------|---------------------------------------------------------------------------------------------|-----------------------------------------------------|
| 1       | 04/12/2021 | Mr. Anmol Warikoo,<br>Mr. Himanshu Dhar,<br>Mr. Pranav Ratnaparkhi,<br>Mr Vaishnav Sonawane | Cracking Campus Internship                          |
| 2       | 15/12/2021 | Mr. Shreyas Ramakrishnan                                                                    | Career Guidance for Abroad Studies<br>For Engineers |





Developer Students' Community  
Vishwakarma Institute of Technology, Pune

# Hacktoberfest 2021

WORKSHOP

Happy coding with  
HacktoberFiesta!

REGISTER NOW

<https://bit.ly/Hacktoberfest21>



This completely packed session will enlighten you with hands-on learning from basic to intermediate concepts of GitHub which will also benefit you to start your Open Source journey!!!



| Sr. No. | Type of Activity | Date                     | Speaker                   | Topic                                                                  |
|---------|------------------|--------------------------|---------------------------|------------------------------------------------------------------------|
| 1       | Webinar          | 29/12/2021               | Mrs. Sumitra Pundlik      | Quantum Computing                                                      |
| 2       | Workshop         | 27/11/2021 to 05/12/2021 | Team IEEE                 | Build your own blockchain- from cryptocur-<br>rency to smart contracts |
| 3       | Competition      | 24/09/2021 to 26/09/2021 | Team IEEE                 | Avenir- A frontend webdev competition                                  |
| 4       | Webinar          | 18/09/2021               | Mr. Praveen Purushothaman | Open Source                                                            |
| 5       | Workshop         | 23/08/2021 to 28/08/2021 | Team IEEE                 | Hands-on Neural Networks Bootcamp from<br>the group up                 |
| 6       | Competition      | 18/07/2021               | Team IEEE                 | Code Zest- Competitive Coding                                          |
| 7       | Webinar          | 16/07/2021               | Mr. Smit Mandavia         | Code Zest- Competitive Coding                                          |



# “STUDENTS CLUB- IEEE CHAPTER”



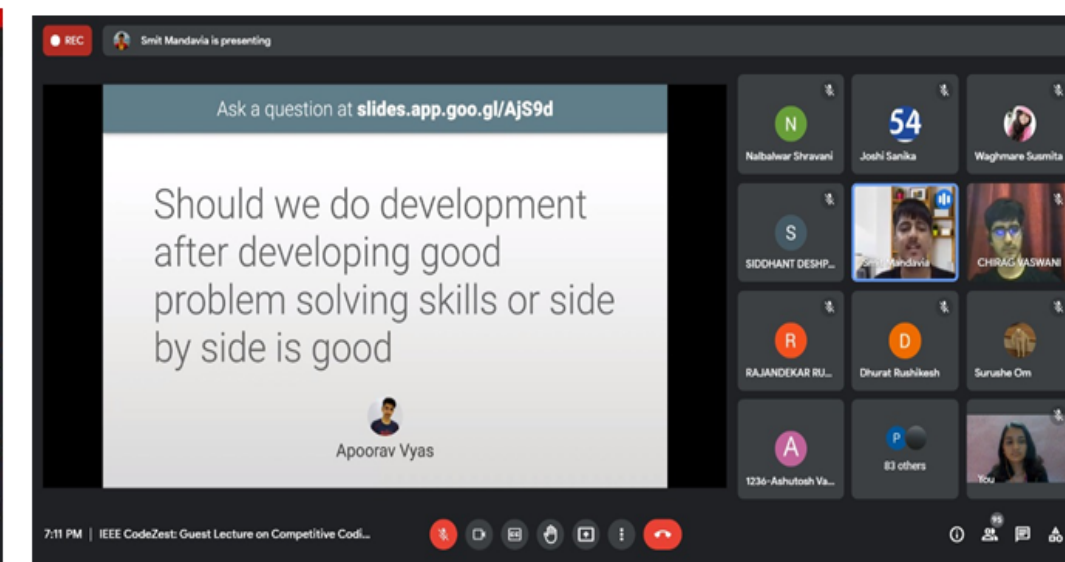
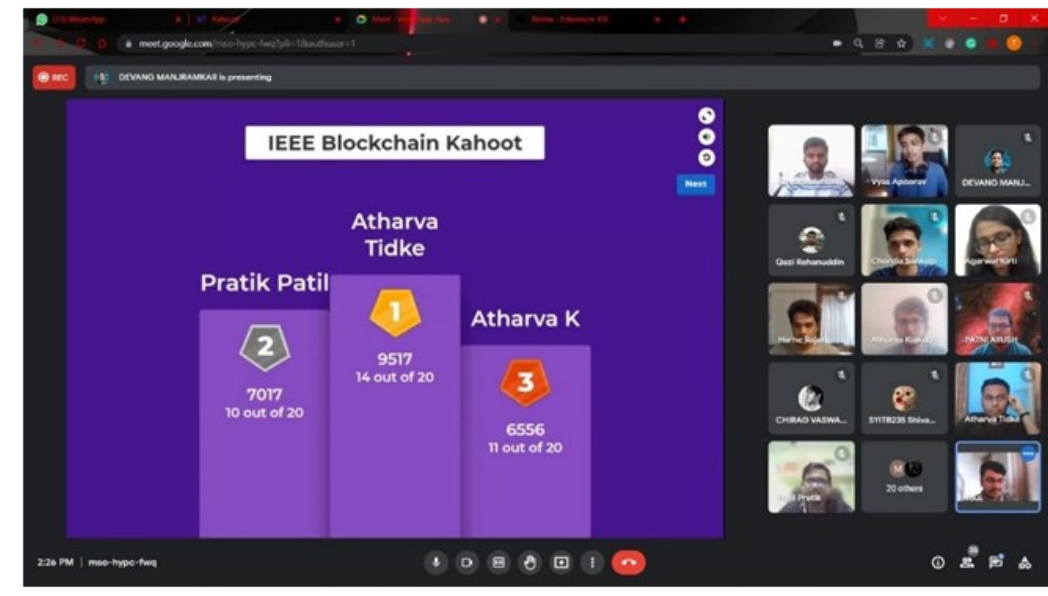
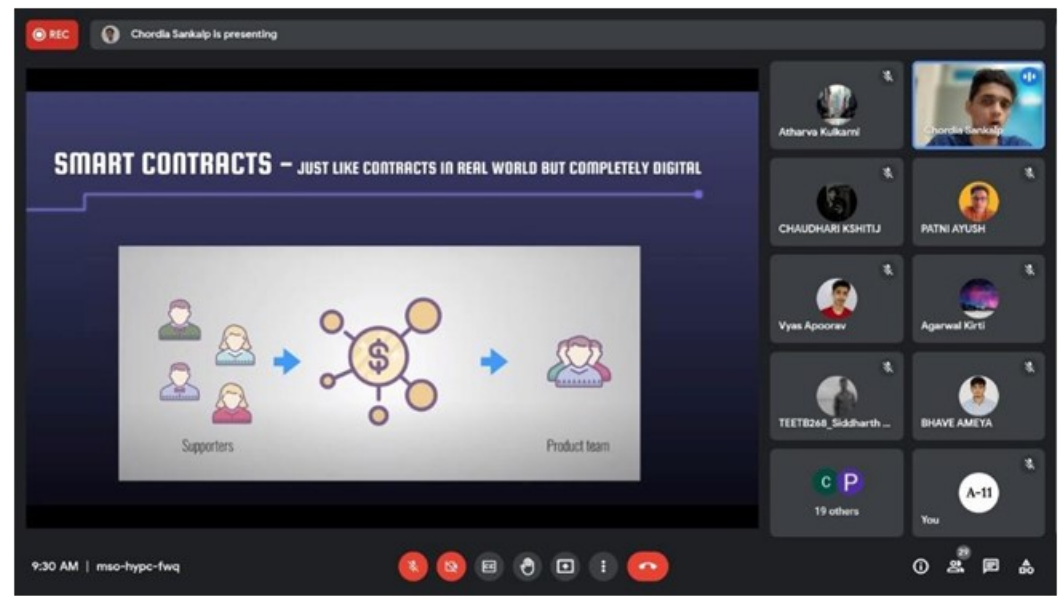
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## DEPARTMENT OF INFORMATION TECHNOLOGY

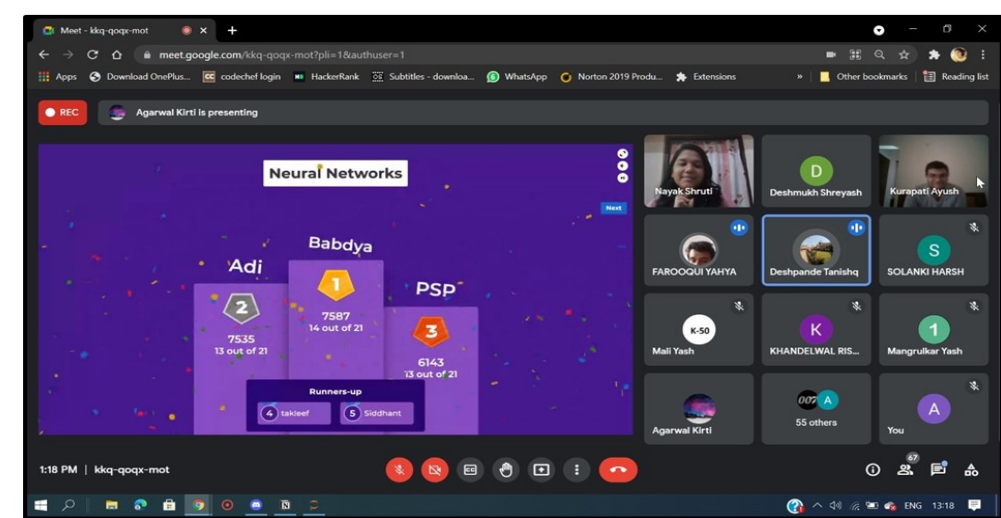
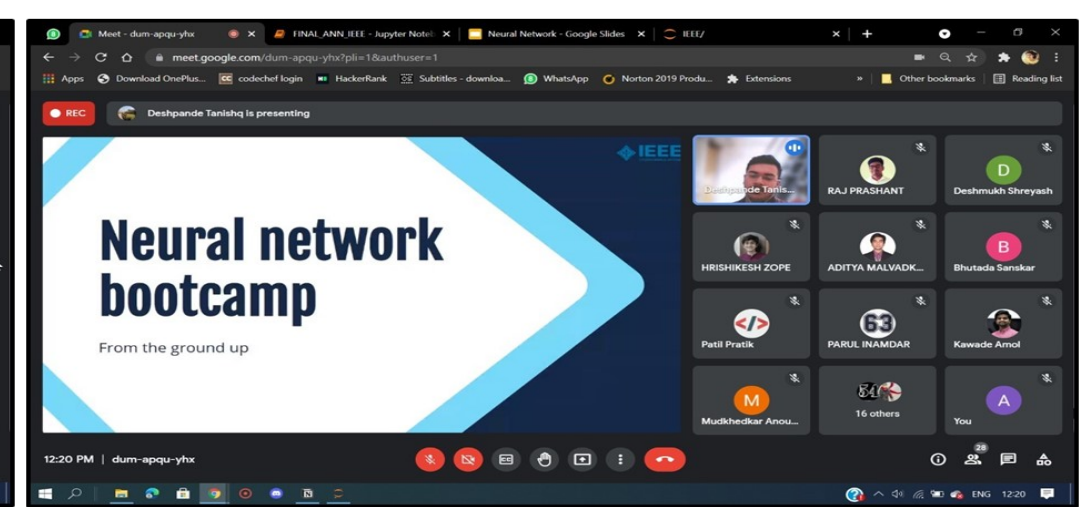
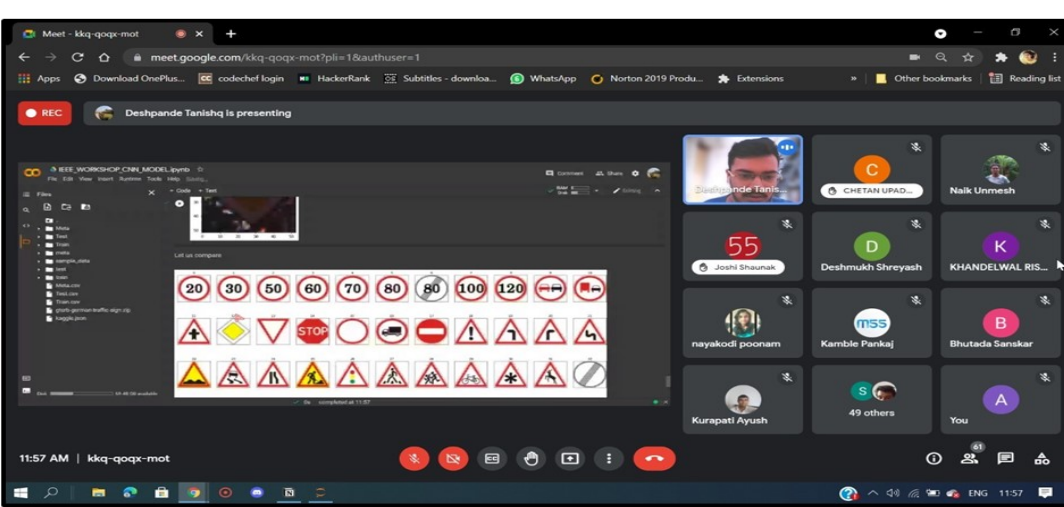


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**Blockchain Workshop (27/11, 28/11, 04/12 and 05/12/2021)**

**CodeZest (16/07/2021 and 18/07/2021)**



**Neural Network Bootcamp from the ground up (23/08/2021 to 28/08/2021)**



# “STUDENTS CLUB- IEEE CHAPTER”



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## DEPARTMENT OF INFORMATION TECHNOLOGY



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Open Source (18/09/2021)

Quantum Computing (29/12/2021)

Frontend Web Development Competition (24/09/2021 to 26/09/2021)

**IEEEXtreme**  
Date: 23/10/2021  
24- Hours Global Challenge  
34 participants (12 teams) - from VIT, Pune

# ITVishwa



# “STUDENTS ACHIEVEMENTS”



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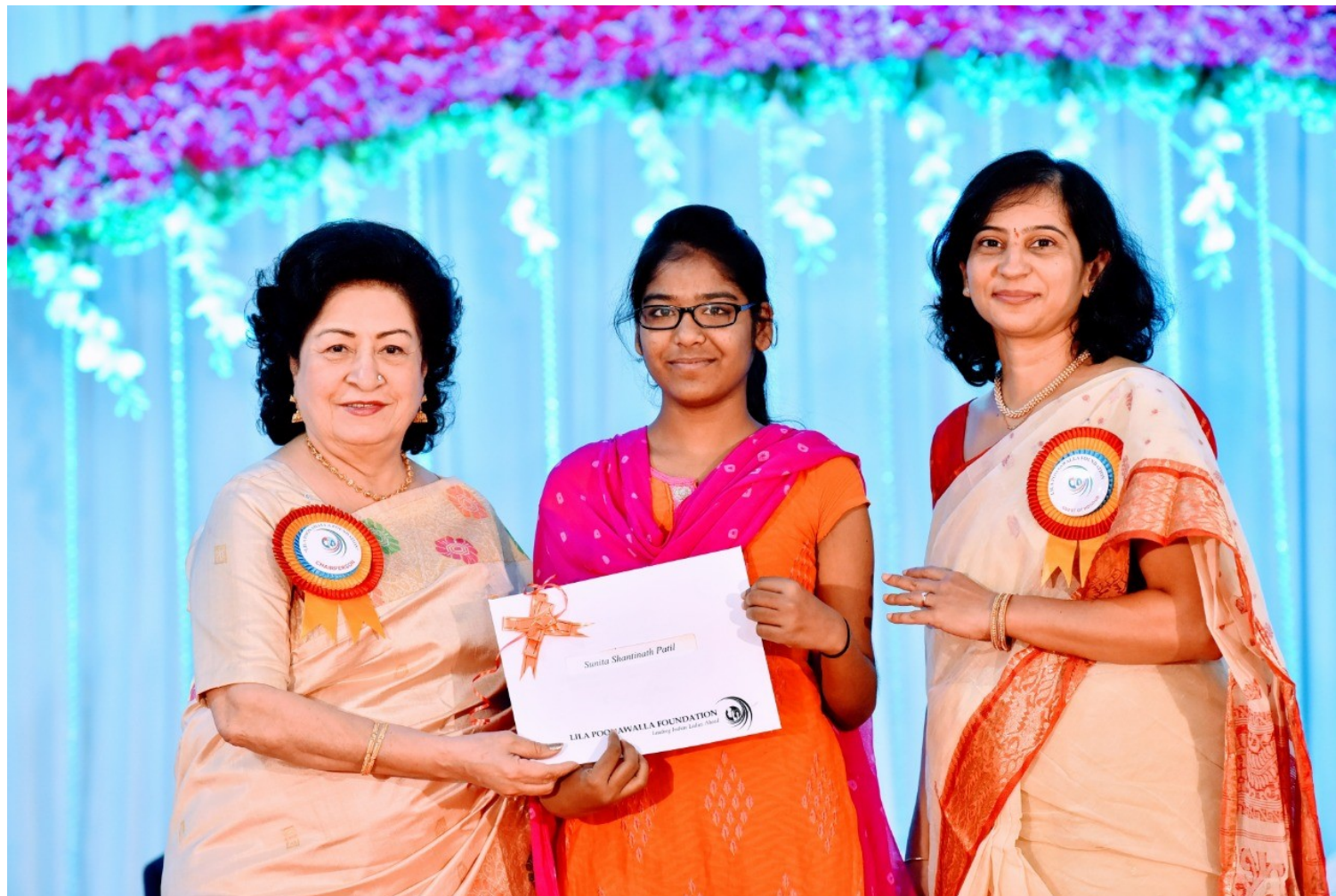
## DEPARTMENT OF INFORMATION TECHNOLOGY



### Sunita Patil

-Got meritorious scholarship of Rs 50,000/- per year (Total amount Rs 1,50,000/-) from Lila Poonawala Foundation.

*Congratulations!*



ITVishwa



# “STUDENTS ACHIEVEMENTS”



## DEPARTMENT OF INFORMATION TECHNOLOGY



| Sr. No. | Name of student                                                   | Name of event                                                                   | Prize                                                                                        |
|---------|-------------------------------------------------------------------|---------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| 1       | Alak Koul                                                         | For DESIS Ascend Educare conducted by DE SHAW                                   | Six-month Internship with stipend of Rs.50,000 and received goodies Kit from Ascend Educare. |
| 2       | Alak Koul                                                         | CodeHouse conducted by VMware                                                   | VMware for a six-month internship offer and received a goodies Kit from VMware               |
| 3       | Raghav Sadany,<br>Rahul Chugwani,<br>Ishaan Kale,<br>Param Mirani | International conference on Innovative Computing and Application, RCOEM, Nagpur | Best Paper Award                                                                             |



*Congratulations!*





# “ GUEST LECTURES ORGANIZED ”



Bansilal Ramnath Agarwal Charitable Trust's  
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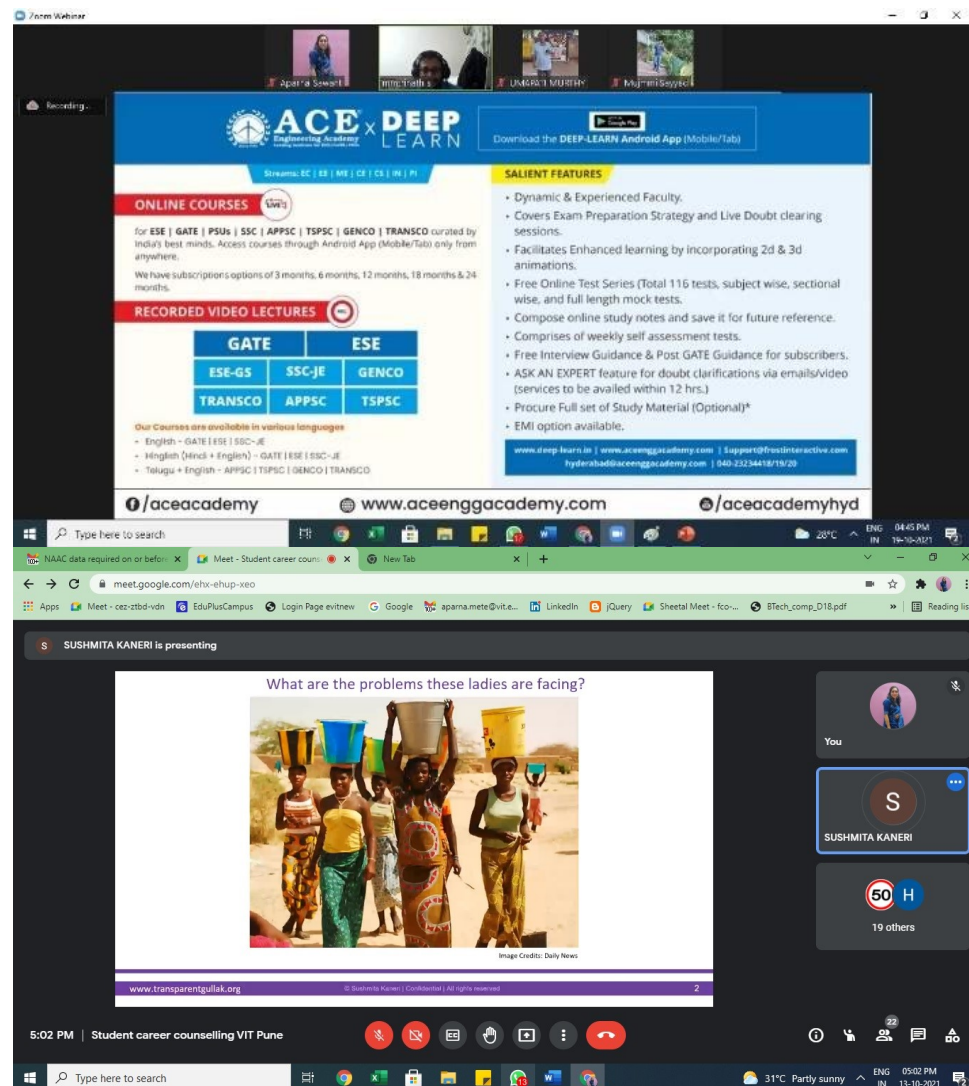
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## DEPARTMENT OF INFORMATION TECHNOLOGY

| Sr. No. | Title                                               | Expert Names                                                                    | Date       |
|---------|-----------------------------------------------------|---------------------------------------------------------------------------------|------------|
| 1       | How to crack GATE in first attempt                  | S.Manimohan Trinath<br>Gate/ESE Trainer, ACE Engg Academy, Hyderabad, Telengana | 19/10/2021 |
| 2       | Computations Using Discrete Mathematics             | Dr. Ranjan Kumar, VITAP University, Andhra Pradesh                              | 1/11/2021  |
| 3       | Relevance of Social Entrepreneurship in Engineering | Ms. Sushmita R Kaneri<br>Founder, TechPose Private Limited, Pune                | 13/10/2021 |



IT Vishwa



### Important subjects for GATE - CS

| Subject                         | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 |
|---------------------------------|------|------|------|------|------|------|------|------|------|------|
| General Aptitude                | 15   | 15   | 15   | 15   | 15   | 15   | 15   | 15   | 15   | 15   |
| Discrete Maths                  | 18   | 13   | 23   | 23   | 16   | 16   | 16   | 14   | 15   | 15   |
| Theory of Computation           | 8    | 8    | 6    | 6    | 9    | 10   | 8    | 6    | 9    | 9    |
| Computer Organisation           | 6    | 13   | 8    | 8    | 9    | 10   | 11   | 4    | 13   | 10   |
| Programming Languages           | 7    | 4    | 3    | 4    | 6    | 10   | 8    | 10   | 5    | 4    |
| Computer Networks               | 10   | 6    | 8    | 10   | 9    | 8    | 7    | 10   | 6    | 7    |
| DBMS                            | 11   | 10   | 8    | 6    | 4    | 8    | 6    | 8    | 8    | 8    |
| Design & Analysis of Algorithms | 6    | 10   | 7    | 10   | 11   | 6    | 10   | 8    | 3    | 11   |
| Operating Systems               | 10   | 10   | 7    | 6    | 9    | 6    | 8    | 10   | 10   | 7    |
| Digital Logic                   | 1    | 3    | 6    | 4    | 4    | 5    | 4    | 7    | 2    | 4    |
| Compiler Design                 | 2    | 3    | 3    | 4    | 4    | 4    | 5    | 6    | 4    | 8    |
| Data Structures                 | 6    | 5    | 6    | 4    | 4    | 2    | 2    | 2    | 10   | 2    |

**Vishwakarma Institute of Technology, Pune**

**Relevance of Social Entrepreneurship in Engineering**

4.00pm , 13<sup>th</sup> Oct 2021

VISHWAKARMA INSTITUTE OF TECHNOLOGY, PUNE  
DEPARTMENT OF INFORMATION TECHNOLOGY

ORGANIZES  
A EXPERT SESSION  
ON

**“COMPUTATIONS USING DISCRETE MATHEMATICS”**

**Resource Person**



Dr. Ranjan Kumar  
[Ph.D. NIT, Jamshedpur]  
Assistant Professor, School of Advanced Sciences, Department of Mathematics, VIT-AP University- Andhra Pradesh

1<sup>st</sup> Nov. 2021  
2.00 PM- 4.00 PM

Co-ordinators  
Prof. (Dr.) P. P. Ghadekar  
Dr. K. B. Vayadande

VISHWASIDDHI – Student Career Counselling & Guidance Cell

### Caesar Cipher

**Main Concept**

The Caesar Cipher is one of the simplest and most widely known encryption techniques. It is a form of substitution cipher in which each letter of the original text, known as plain text, is replaced by a letter some fixed number of positions further down the alphabet. This technique is named after Julius Caesar, who used it with a left shift of 3 to protect messages of military importance. Encryption occurs by performing a shift of the same magnitude but in the opposite direction on each letter of the encrypted text, known as the "ciphertext".

For example, with a right shift of 3: A would be replaced with D, B would be replaced with E, and so on until W is replaced with Z. Then, the beginning of the alphabet must wrap around to the end: X would be replaced with A, Y is replaced with B, and finally, Z is replaced with C.

Encryption using a Caesar cipher can be represented using modular arithmetic by first transforming the letters of the alphabet into numbers with A=0, B=1, C=2, ..., Y=24, Z=25. Encryption of the letter x with a shift of n can be described as:

$$E_n(x) = (x + n) \bmod 26$$

$$D_n(x) = (x - n) \bmod 26$$

Like all types of monoalphabetic substitution, encryptions made using a Caesar cipher can be easily broken through the frequency analysis of letters and brute force attacks.

The black letters below illustrate the normal position of the letters of the alphabet, while the dark blue letters illustrate the shifted position of these letters in a Caesar cipher. Use the slider to adjust the magnitude of the shift, then type your message into the "Plaintext" text box and press the "Encrypt Text" button to transform it into the corresponding ciphertext.

Plaintext: [ ] Ciphertext: [ ]



# “PAPER PUBLICATIONS”



## DEPARTMENT OF INFORMATION TECHNOLOGY

| Sr.No. | Title                                                                                                             | Authors Name                                                                                               | Name of Journal/Conference                                                                 | Month and Year of Publication |
|--------|-------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|-------------------------------|
| 1      | Automatic Digitization of Engineering Diagrams using Intelligent Algorithms                                       | Dr. P.P.Ghadekar                                                                                           | International journal of Journal of Computer Science                                       | September 2021                |
| 2      | Real-Time Virtual Fitness Tracker and Exercise Posture Correction                                                 | Dr. P.P.Ghadekar, Sanket Bijawe , Prasanna Akolkar, Himanshu Pandey , Mihir Mahajani , Aditya Shinde       | International Journal of Next-Generation Computing (IJNGC)                                 | November 2021                 |
| 3      | Multi-day Window for Stock Movement Prediction and Financial News Classification for Predicting Market Sentiments | Dr.P.P.Ghadekar , Raghav Sadany , Ishaan Kale, Param Mirani , Rahul Chugwani                               | International Journal of Next-Generation Computing (IJNGC)                                 | November 2021                 |
| 4      | Automated Sign to Speech Conversion Model using Deep Learning                                                     | Dr. P.P.Ghadekar, Divsehaj Singh Anand , Aryan Kumar Gupta , Dheeraj Sharma , Preeti Oswal , Shreyas Khare | International Journal of Next-Generation Computing (IJNGC)                                 | November 2021                 |
| 5      | Farming Services Management System                                                                                | A.R. Sawant,                                                                                               | International Journal for Research in Applied Science and Engineering Technology (IJRASET) | July 2021                     |



# “PAPER PUBLICATIONS”



## DEPARTMENT OF INFORMATION TECHNOLOGY

| Sr.No. | Title                                                                                                        | Authors Name                                                                                             | Name of Journal/Conference                                                               | Month and Year of Publication |
|--------|--------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|-------------------------------|
| 6      | Automatic Mask and Temperature Detection System using Deep Learning and Bus sanitization module for Covid-19 | R.S. Jadhav, Tanay Vartak, Kalyani Vidhate, Shailesh Kadam, Tasmiya Tamreen Kankurti and Rutvik Deshmukh | 2021 International Conference on Artificial Intelligence and Machine Vision (AIMV)       | 24th to 26th September 2021   |
| 7      | Hospital Management System using Php and MySql                                                               | Pavitha N, Zoya Jamadar, Sahil Zawar, Abhishek Yeole, Vivek Verma and Varad Ingale                       | Vishwacon 2021                                                                           | 27th and 28th November 2021   |
| 8      | Diabetes Prediction using Data Mining Techniques                                                             | Pavitha N , Raj Shah, Prapti Maheshwari, Vaishnav Sonawane, Vaibhavi Shetty and Anish Shaha              | Vishwacon 2021                                                                           | 27th and 28th November 2021   |
| 9      | Deep Learning Based TTS-STT Model with Transliteration for Indic Languages                                   | R.S. Jadhav, Kartik Tiwari                                                                               | International Journal for Research in Applied Science & Engineering Technology (IJRASET) | December 2021                 |
| 10     | Hate Speech Detection using ML                                                                               | Dr. Kuldeep Vayadande                                                                                    | 2021- Computatia                                                                         | December 2021                 |
| 11     | Demystifying Machine Learning Applications in Breast Cancer Detection                                        | Pavitha N , Samruddhi Mumbare, Mrunalini Ekhar, Anushka Ahire, Varad Deshpande                           | Vishwacon 2021                                                                           | 27th and 28th November 2021   |

# “PAPER PUBLICATIONS”



Bansilal Ramnath Agarwal Charitable Trust's  
**Vishwakarma Institute of Technology**

(An Autonomous Institute affiliated to Savitribai Phule Pune University)

## DEPARTMENT OF INFORMATION TECHNOLOGY

| Sr.No. | Title                                                                              | Authors Name                                                                              | Name of Journal/Conference                       | Month and Year of Publication |
|--------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|--------------------------------------------------|-------------------------------|
| 12     | Brain Tumor Classification using Machine Learning                                  | Pavitha N , Atharva Bakde, Shantanu Avhad, Isha Korate, Shaunak Mahajan, Rudraksha Padole | Journal of Pharmaceutical Research International | December 2021                 |
| 13     | Comparative analysis of Regression Algorithms for College Prediction               | Pavitha N , Varad Ingale, Vivek Verma, Abhishek Yeole, Sahil Zawar, Zoya Jamadar          | Design Engineering (Toronto)                     | December 2021                 |
| 14     | The Effects of Artificial Intelligence and Medical Technology on the Life of Human | Pankaj Kuneekar                                                                           | Journal of Pharmaceutical Research International | November 2021                 |



| Sr. No. | Title                                                                                                               | Coordinator Names                       | Expert Names                                                                                                 | Start Date                   | End Date                     |
|---------|---------------------------------------------------------------------------------------------------------------------|-----------------------------------------|--------------------------------------------------------------------------------------------------------------|------------------------------|------------------------------|
| 1       | Version Controlling with Git and GitHub                                                                             | Dr. P. P. Ghadekar<br>Prof. D.J. Joshi  | Mr. Madhukar Wakhare                                                                                         | 28/08/2021                   | 28/08/2021                   |
| 2       | Cloud Computing                                                                                                     | Dr. P. P. Ghadekar<br>Prof. D.J. Joshi  | Mr.Prateek Vashishta                                                                                         | 23/10/2021<br>Every Saturday | 11/12/2021<br>Every Saturday |
| 3       | API creation with Django                                                                                            | Dr. P. P. Ghadekar<br>Prof. D.J. Joshi  | Mr. Mohammed Ameer, Vodafone                                                                                 | 11/09/2021                   | 11/09/2021                   |
| 4       | Artificial Intelligence and Machine Learning to Advance Academic Research                                           | Dr. P. P. Ghadekar<br>Prof. D.J. Joshi  | Mr. Madhukar Wakhare                                                                                         | 30/06/2021                   | 02/07/2021                   |
| 5       | IQ3Connect series of Training and VR Project Development                                                            | Dr. P. P. Ghadekar<br>Prof. S.P. Dongre | Mr. Rajiv Salkar,<br>Mr. Pushkar Kulkarni                                                                    | 16/08/2021                   | 04/09/2021                   |
| 6       | Reinventing Research for REVENUE GENERATION: Academician to Researcher to Consultant (Lab to Land   Mind to Market) | Prof. A. R. Sawant                      | Adv.(Dr.)Er. Suryakant Patil<br>MD & CEO, PSP-IP PATENT ATTORNEYS & Ministry of Education IIC START-UP, Pune | 16/08/2021                   | 16/08/2021                   |
| 7       | 1 iDEA   1 PATENT : Road Ahead to SUSTAINABLE START-UP (100% SPONSORSHIP) Lab to Land   Mind to Market              | Prof. A. R. Sawant                      | Adv.(Dr.)Er. Suryakant Patil<br>MD & CEO, PSP-IP PATENT ATTORNEYS & Ministry of Education IIC START-UP, Pune | 19/08/2021                   | 19/08/2021                   |



# “WORKSHOPS/SEMINARS ORGANIZED”



Bansilal Ramnath Agarwal Charitable Trust's  
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## DEPARTMENT OF INFORMATION TECHNOLOGY

Recording has started. This meeting is being recorded. By joining, you are giving consent for this meeting to be recorded. [Privacy policy](#)

**\_VOIS**

Connecting DREAMS

### Bootcamp on Version Controlling with git and github

12:01

Request control

People

Share invite

Currently in this meeting (61)

- DJ Deepali Joshi (Guest)
- AY Abhishek Yeole (Guest)
- AJ Aditya Joshi (Guest)
- AK Aditya Kulkarni (Guest)
- AW ajsy wag (Guest)
- AT Akshay Tatikondalwar (Guest)
- A Akshay\_Bagdi (Guest)
- AC Amey Chopde (Guest)
- AM Aparna Mete
- AK Ashutosh Kumar (Guest)

+55 US PP AW JR MW

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PowerPoint Slide Show - [1] Welcome to Cloud Workshop.pptx - PowerPoint

### Cloud Computing

#### Introduction

00:07

Request control

+96

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**\_VOIS**

Connecting DREAMS

### Bootcamp on API Creation with Django

09:25

Request control

Mohammed Ameer

VI OM AW SK KC JR MA

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**\_VOIS**

Connecting DREAMS

1) Clone Remote Repo to Local Repo (Working directory)  
2) Import project from git to workspace  
3) Add/modify features/code/Test cases  
4) Add files to staging  
5) Commit changes to Local Rep(git)  
6) Push changes to Remote Rep(Github) from new branch  
7) Request PR(Pull Request) for review code

1) Create new Project.  
2) Create Local(git) repository  
3) Add files to Staging  
4) Commit changes to Local Rep(git)  
5) Push changes to Master branch Remote Repo (Github)

Hey Guys, I created new Project on GitHub. Go head and clone it then continue with your tasks.

Branch X  
Branch Y  
Branch Z

Review Code :  
Case 1: Changes required, then provide comments to Team Member  
Case 2: Everything good, then provide approval to merge code in to Master branch in Github.

28:59

Request control

Madhukar Wakhare

+75 TG US DN AW PP JR MW

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PowerPoint Slide Show - [1] Welcome to Cloud Workshop.pptx - PowerPoint

Vodafone India Foundation

**\_VOIS**

Connecting DREAMS

### Why IBM Cloud?

- Free Tier Account with limited capabilities
- High Availability (99.999%) and Durability (99.999999%)
- Fault Tolerant
- Robust
- Secure
- Highly Scalable
- Fully Managed Services
- Variety of Service Domains

16:46

Meeting chat

Prathmesh Nagpure (G... 04:18 pm  
Computing power?

Rupesh Kadam (Guest) 04:19 pm  
IOT

it is a abstract network

madhugauri (Guest) 04:25 pm  
}G+++++++\*9/+

K Kamlesh (Guest) 04:27 pm  
via private vehicle

SM Sahil Mohite (Guest) 04:29 pm  
Payment

RK Rupesh Kadam (... 04:42 pm  
Screen is not visible

MB Mustafa Bohra (Guest) 04:44 pm  
sir screen is not visible

Type a new message

+116 MI PJ

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**\_VOIS**

Connecting DREAMS

### API

In computing, an **application programming interface (API)** is an interface that defines interactions between multiple software applications or mixed hardware-software intermediaries. It defines the kinds of calls or requests that can be made, how to make them, the data formats that should be used, the conventions to follow, etc.[1]

11:17

Request control

Mohammed Ameer

People

Share invite

Currently in this meeting (2)

- JR Jonathan Rajiv Organizer
- MA Mohammed Ameer

+113 KC JR MA

ITVishwa



# “WORKSHOPS/SEMINARS ORGANIZED”

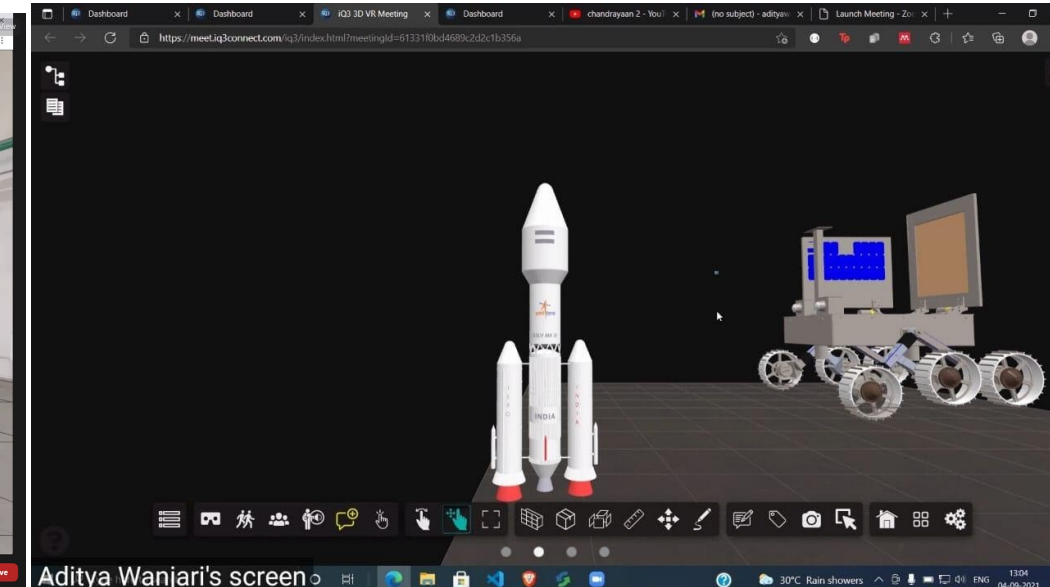
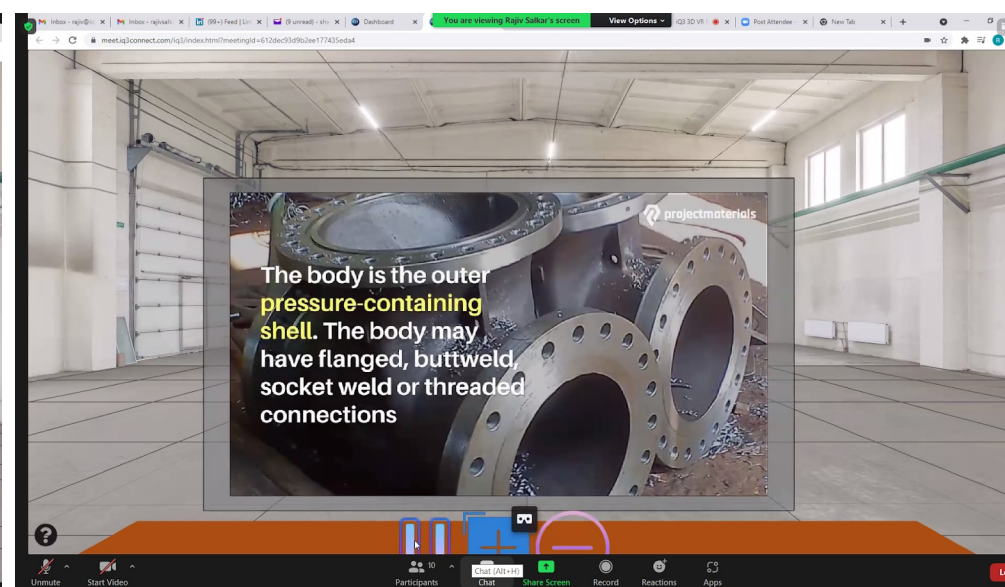
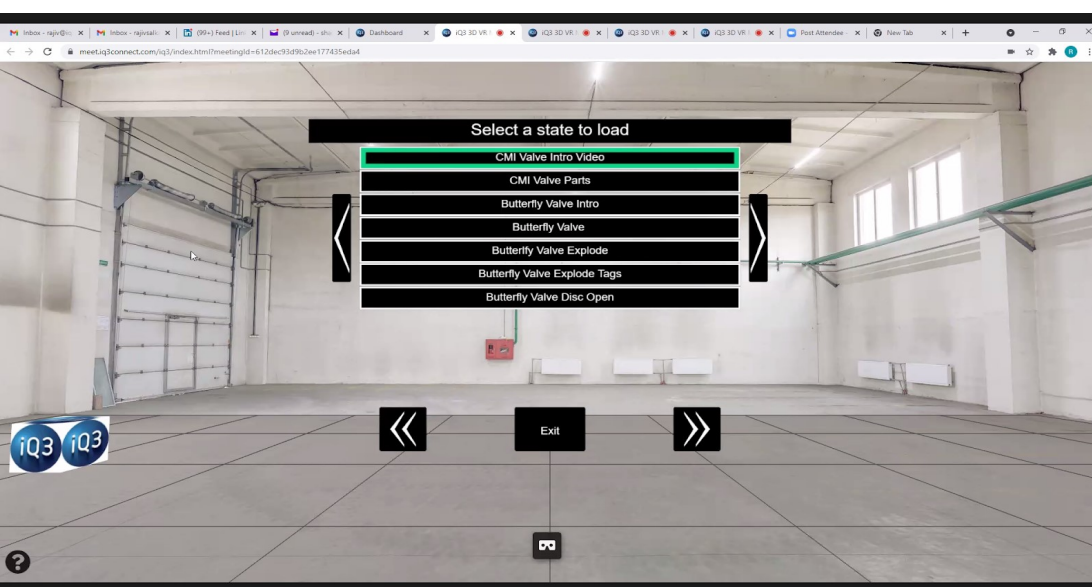
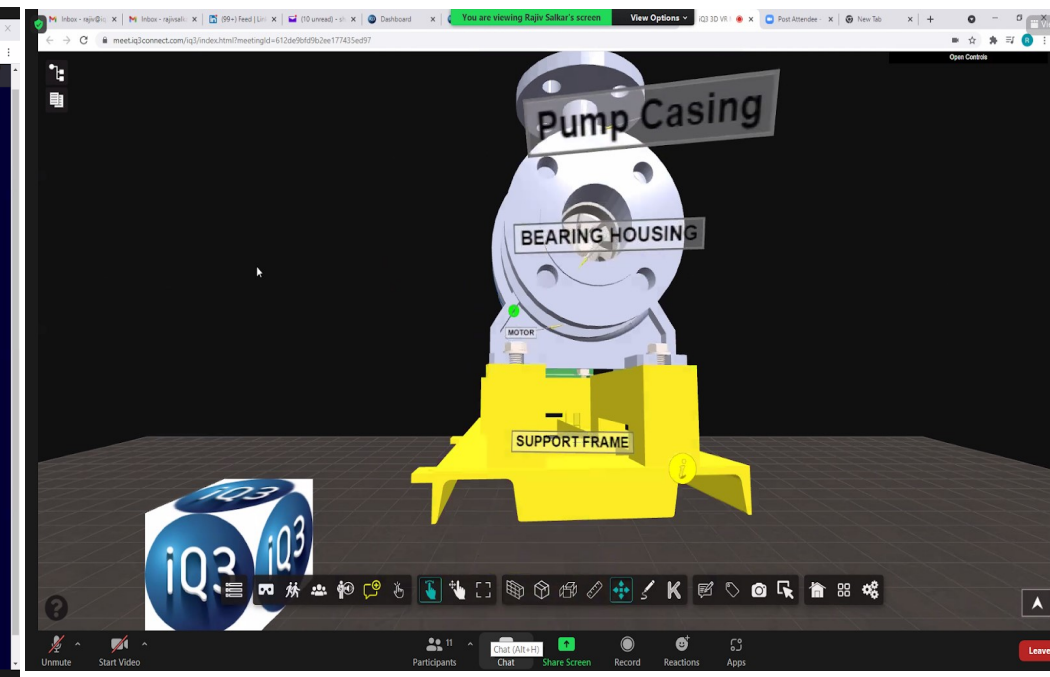
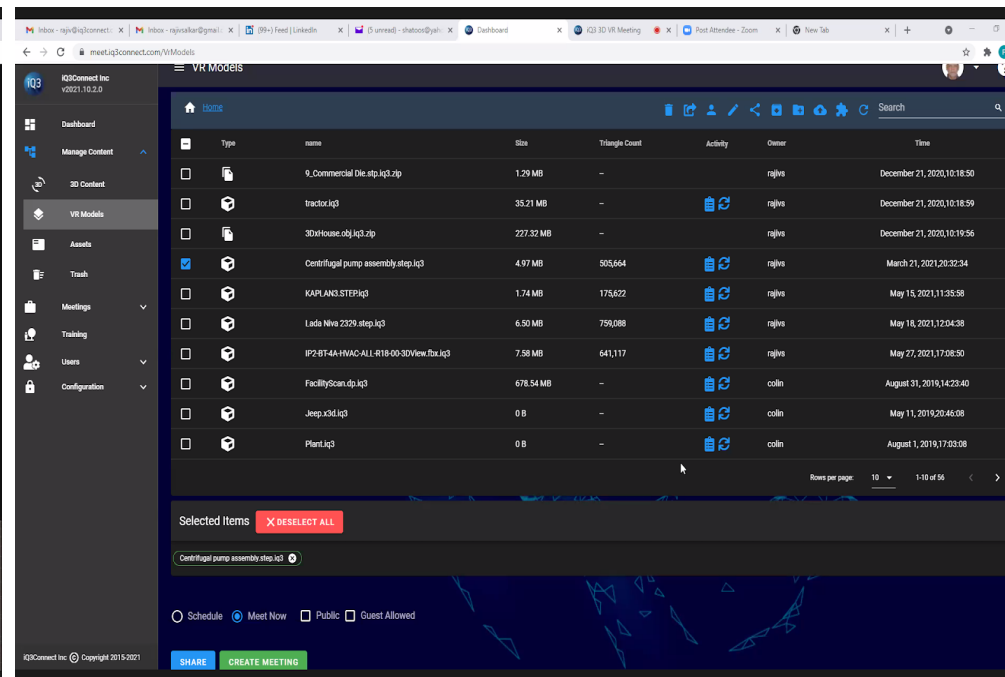
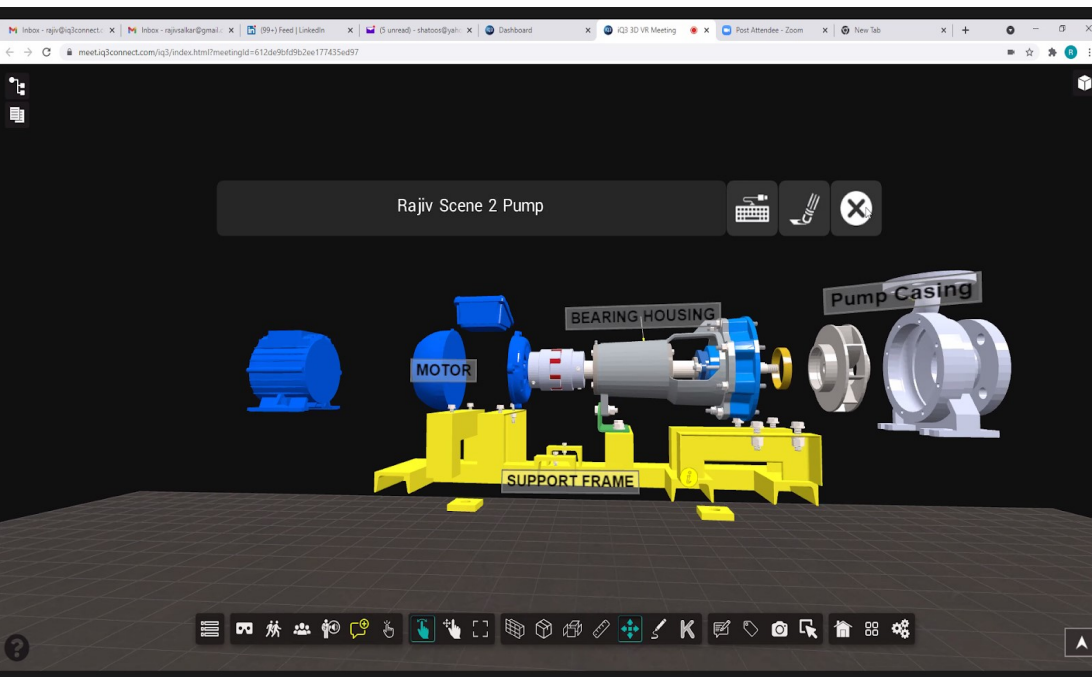


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## DEPARTMENT OF INFORMATION TECHNOLOGY

### IQ3Connect series of Training and VR Project Development



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# “WORKSHOPS/SEMINARS ORGANIZED”



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## DEPARTMENT OF INFORMATION TECHNOLOGY

### 1 i IDEA | 1 PATENT : Road Ahead to SUSTAINABLE START-UP (100% SPONSORSHIP) Lab to Land | Mind to Market

**How to Define a startup?**  
Government of India Definition

- AGE:** 7 years from date of incorporation (10 yrs for biotech)
- ENTITY TYPE:** Pvt. Ltd. Company or LLP or Partnership Firm
- TURNOVER:** Must not exceed INR 25 Cr. in any fiscal year
- NATURE OF INNOVATION:** Developing new or improving existing product/service offering

**Do MORE with less for MORE – MASS**  
Case Study: IIT Delhi alumni's startup Nanoclean

- Now working on mass producing nanofibres in India
- After selling nasal filters at Rs 10 and...
- Device that turns any AC into air purifiers for Rs 399
- Branded air purifier cost more than Rs 20,000
- Mass producing nanofibres

**AIR-ASSISTED ELECTROSTATIC SPRAYER**

Dr Manoj Kumar Patel  
(CSIR Chandigarh)

The device uses electrostatic force in its design and aims to increase the mass transfer efficiency, pesticide bio-efficacy, uniform deposition, maximum canopy coverage and liquid pest on the crops.

**Interview & Placement Skills | Project Skills**  
Que. No. 1 : Note Down...

**TRAINING**

- 4 Yrs | 8 Sem | 40 Subjects Study
- Technical GK
- Market Trends
- Latest Technologies
- Personality Development
- Communication
- Interpersonal
- Interview Skills
- Soft Skills
- Project Skills

**EXECUTION**

- PSP-IP SOLUTION**
- Know all the questions in any interview (Tech or Personal) by any company or On Campus / Off Campus / Pool Campus
- 1 or 2 Complete Patents
- 2. Social Innovation Project with Recommendation Letter
- 3. Work Experience
- 4. Internship

**Nation of Job Creators**  
Shaping a New India

**12 Jobs per startup\***

1,06,618 JOBS REPORTED BY 9,091 STARTUPS INDIA RECOGNISED STARTUPS

**DISTRIBUTION OF STARTUPS WITH AT LEAST 1 OR MORE WOMEN DIRECTOR (5)**

55% 45%

**MENTOR: SATGURU**

- 100% MENTORING
- Mr. Rohit VIT Pune
- 10 Indian / International GRANTED PATENTS
- STARTUP... running successfully

# ITVishwa



### Reinventing Research for REVENUE GENERATION: Academician to Researcher to Consultant Lab to Land | Mind to Market



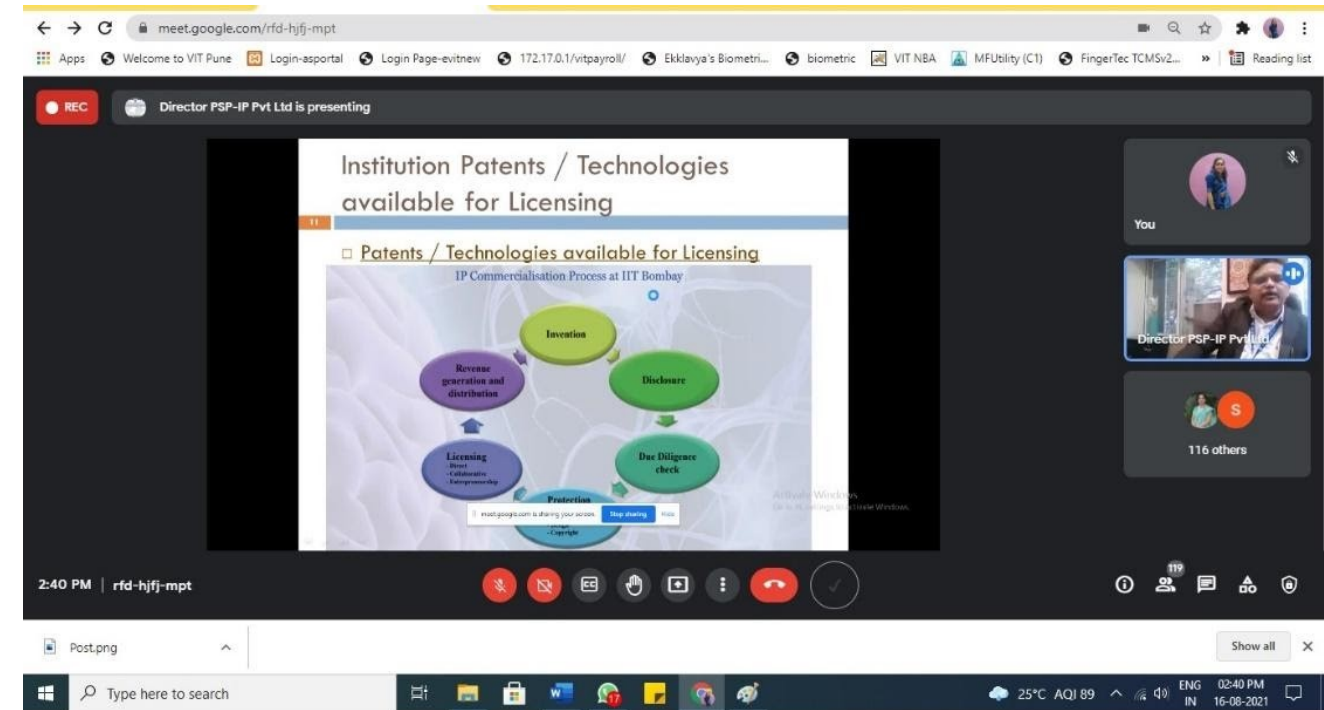
**VISHWAKARMA INSTITUTE OF TECHNOLOGY, PUNE**  
Department of Information Technology

**WEBINAR**  
**Reinventing Research for Revenue Generation: Academician to Researcher to Consultant (Lab to Land | Mind to Market)**

**Adv. (Dr.) Er. Suryakant Patil**  
MD & CEO, PSP IP Patent Attorneys & Ministry of Education IIC Start-Up Mentor

16th August 2021  
2 pm to 4 pm

Scan to Join

Director PSP-IP Pvt Ltd is presenting

**Institution Patents / Technologies available for Licensing**

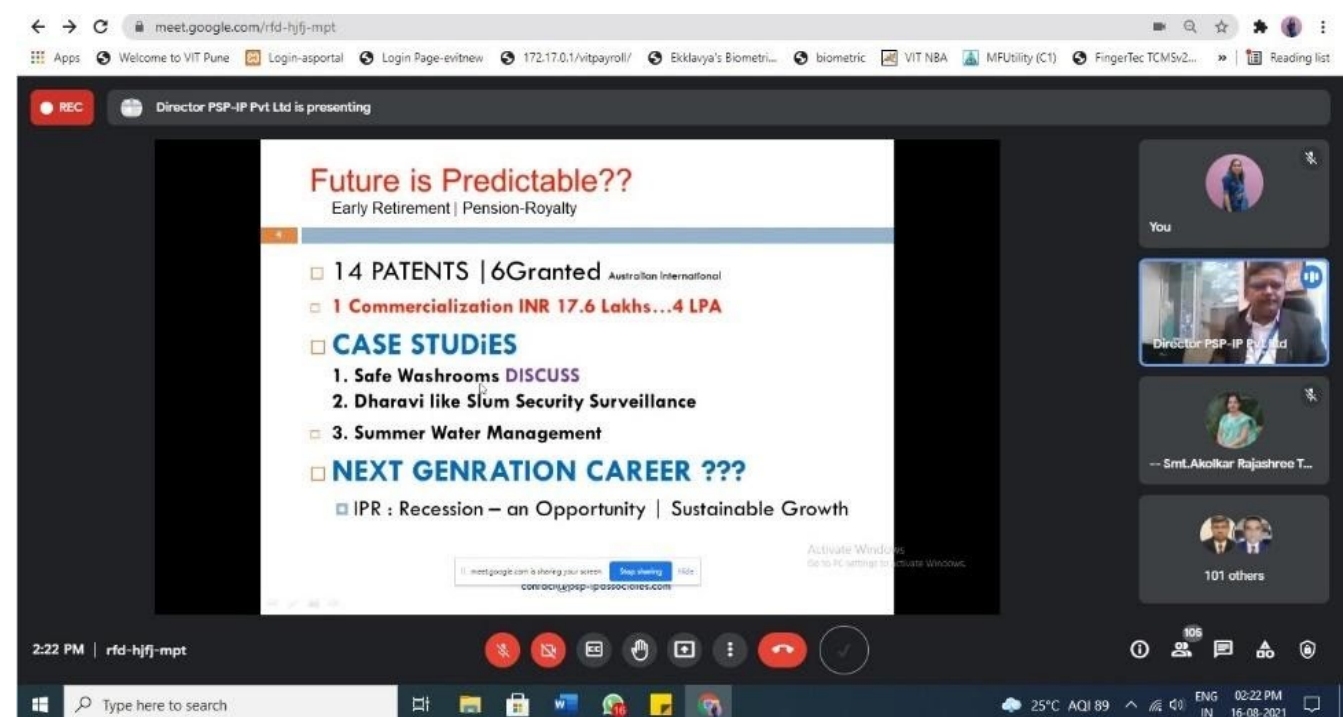
Patents / Technologies available for Licensing

IP Commercialisation Process at IIT Bombay

```

    graph TD
      Innovation --> Disclosure
      Disclosure --> Due Diligence check
      Due Diligence check --> Licensing
      Licensing --> Reverse generation and distribution
      Reverse generation and distribution --> Innovation
  
```

2:40 PM | rfd-hjff-mpt



Director PSP-IP Pvt Ltd is presenting

**Future is Predictable??**  
Early Retirement | Pension-Royalty

- 14 PATENTS | 6Granted Australian International
- 1 Commercialization INR 17.6 Lakhs...4 LPA
- CASE STUDIES**
  1. Safe Washrooms DISCUSS
  2. Dharavi like Slum Security Surveillance
  3. Summer Water Management
- NEXT GENERATION CAREER ???**
  - IPR : Recession – an Opportunity | Sustainable Growth

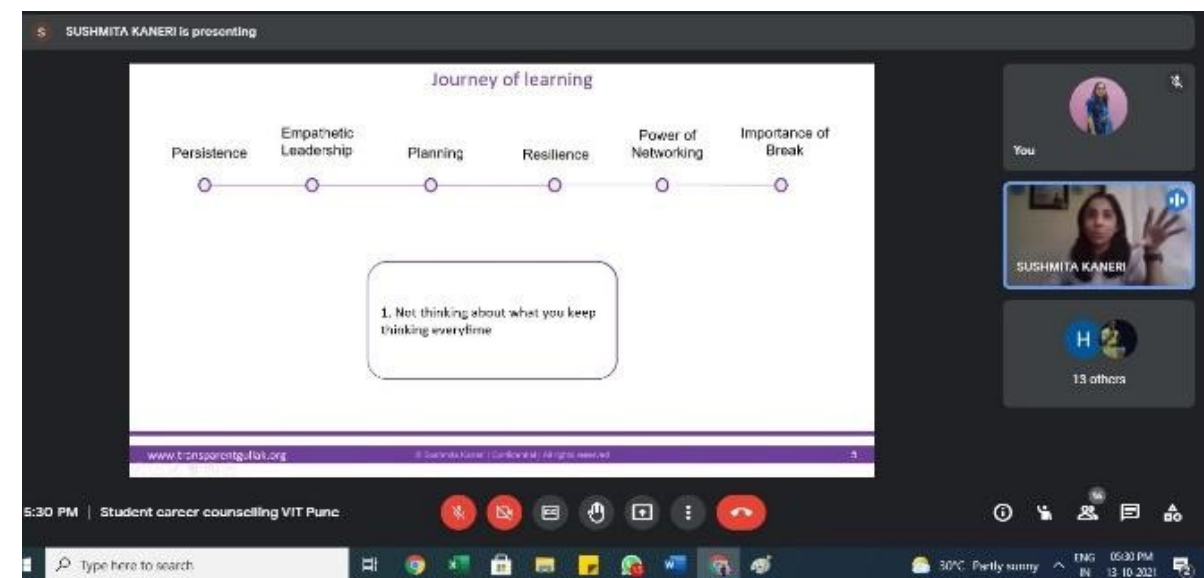
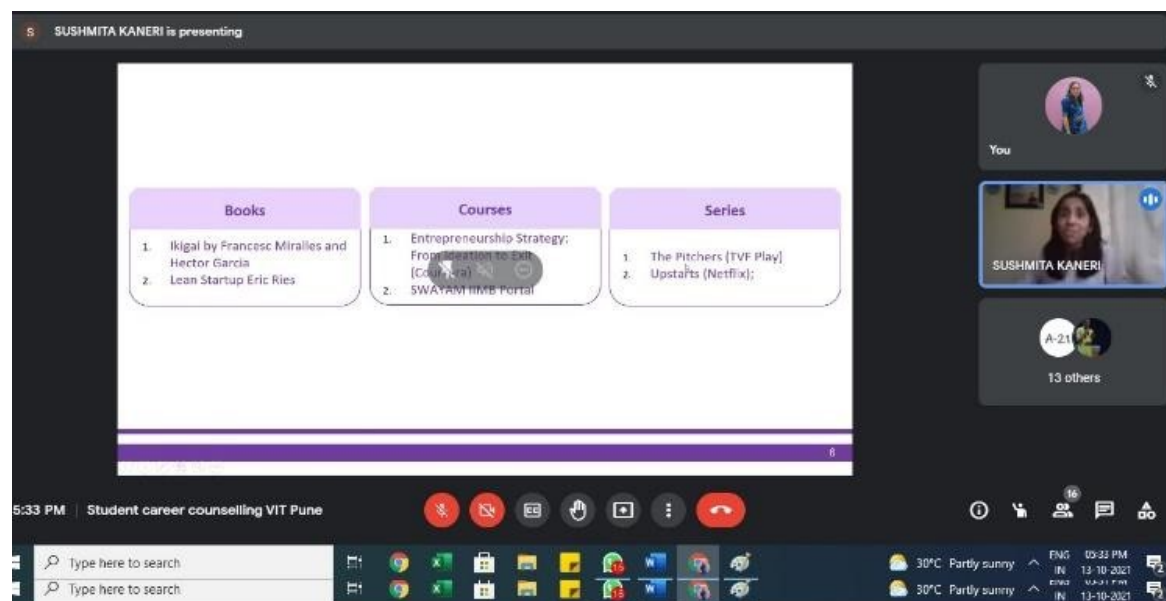
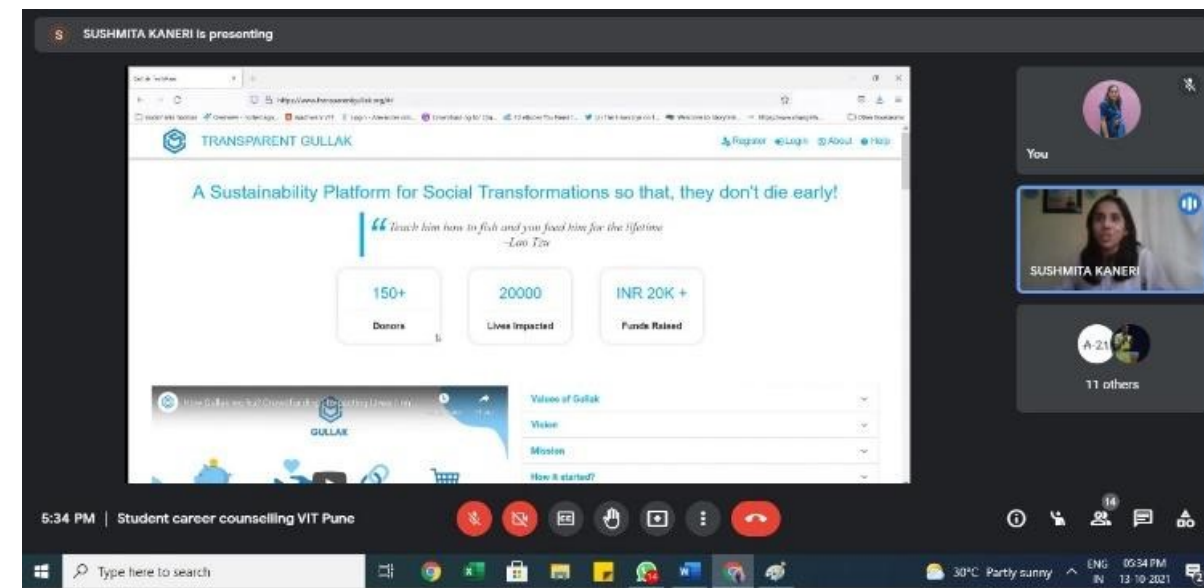
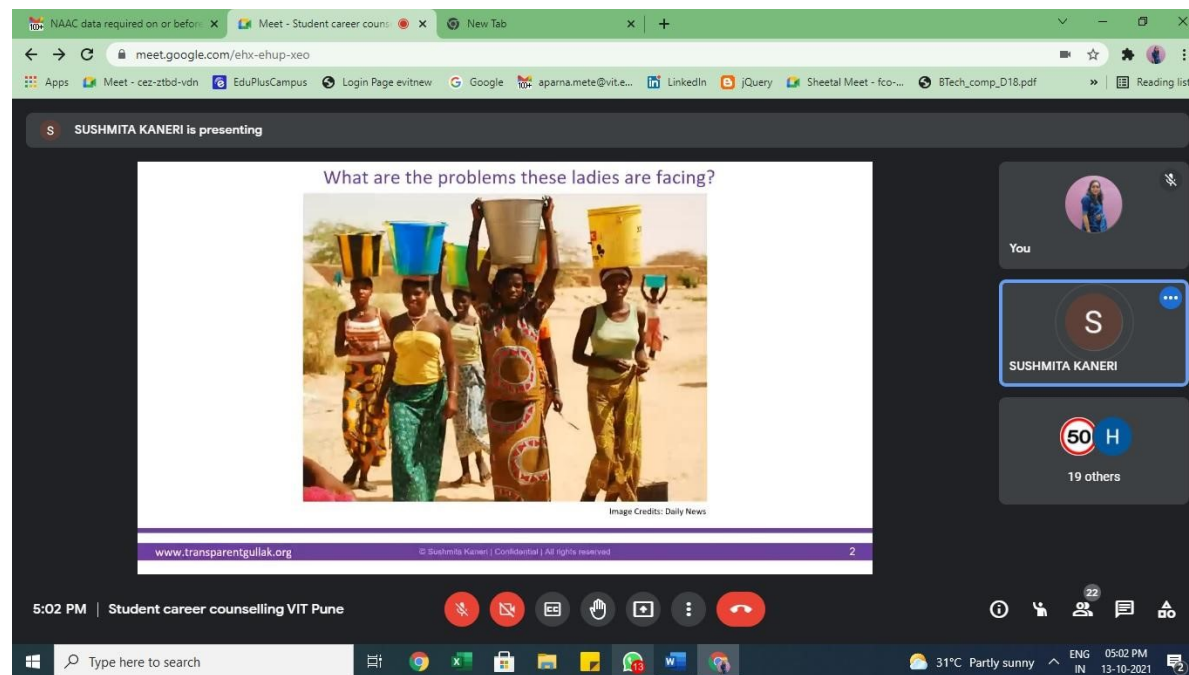
2:22 PM | rfd-hjff-mpt

### Webinar on “Relevance of Social Entrepreneurship in Engineering”

Speaker: Ms. Sushmita R Kaneri

Date: 13/10/2021

IT 2020 VIT Alumnus, Founder, TechPose Private Limited, Pune





# “WORKSHOPS/SEMINARS ORGANIZED”



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## DEPARTMENT OF INFORMATION TECHNOLOGY

### Webinar on “How to crack GATE in first attempt”

Speaker: S. Manimohan Trinath,  
GATE/ESE Trainer, ACE Engg. Academy, Hyderabad, Telangana.

Date: 19/10/2021

| Branch          | PSUs Through GATE and Independent Exams                                                                                                                                                                                                                        | Total No. of PSUs |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| Civil           | BARC, BSNL, CONCOR, DDA, DMRC, GSECL, HAL, HPCL, IOCL, IRCON, KRIBHCO, MECON, MRVC, NALCO, NBCC, NHAI, NHPC, NLC, NTPC, ONGC, OPSC, RVNL, RITES, THDC, GSECL, PGCIL, IOCL, I&T, DRDO                                                                           | 30                |
| Mechanical      | BARC, BEML, BEL, BHEL, BHPML, BPCL, CEL, CIL, CONCOR, DDA, DMRC, DVC, GAIL, GSECL, HAL, HPU, HPCL, IOCL, IRCON, KRIBHCO, MDL, MDSL, MECL, MECON, NALCO, NFL, NHPC, NLC, NTPC, ONGC, OPSC, RITES, THDC, I&T, DRDO, ECIL, SAIL                                   | 37                |
| Electrical      | AAL, BARC, BBNL, BEML, BHEL, BHPML, BPCL, BSNL, CEL, CIL, DDA, DMRC, DVC, GAIL, GSECL, HAL, HPU, HPCL, HPGCL, IOCL, IRCON, KRIBHCO, MDL, MDSL, NALCO, NFL, NHPC, ONGC, OPSC, PGCIL, PSPCL, RITES, RVNL, THDC, WBSDEL, DVC, I&T, DRDO, BSNL, SAIL, POSOCO, NTPC | 40                |
| Electronics     | AAL, BARC, BBNL, BEL, BHPML, BEML, BPCL, Cabinet Secretariat, CEL, DMRC, DVC, HAL, HPCL, IOCL, IRCON, KRIBHCO, NALCO, NLC, NTPC, ONGC, RITES, RVNL, WBSDEL, DRDO, BSNL, ECIL                                                                                   | 26                |
| Instrumentation | BARC, BEL, BPCL, DMRC, DVC, GAIL, IOCL, IRCON, KRIBHCO, NALCO, NFL, NLC, NTPC, ONGC, OPSC, DRDO, BSNL, SAIL                                                                                                                                                    | 18                |
| CS&IT           | BARC, BBNL, BEL, Cabinet Secretariat, CONCOR, DMRC, DVC, GSECL, IOCL, KRIBHCO, NLC, ONGC, NTPC, PGCIL, DRDO, BSNL, ECIL, POSOCO                                                                                                                                | 18                |

Direct recruitment to Group A level posts in Central government, i.e., Senior Field Officer (Tele), Senior Research Officer (Crypto) and Senior Research Officer (S&T) in Cabinet Secretariat, Government of India, is now being carried out on the basis of GATE score.

A Computer Based Test (CBT) consists of questions of MCQ, MSQ & NAT

| Description                       | One Mark Questions    | Two Mark Questions | Total Questions / Total Marks |
|-----------------------------------|-----------------------|--------------------|-------------------------------|
| General Aptitude (GA)             | 5                     | 5                  | 10 Q / 15 M                   |
| Respective Engineering Discipline | 25                    | 30                 | 55 Q / 85 M                   |
| Negative Marking for MCQ          | 1/3 Mark              | 2/3 Marks          |                               |
| Total Questions                   | 30                    | 35                 | 65 Q / 100 M                  |
| Total Duration                    | 3 Hours (180 Minutes) |                    |                               |

There is NO negative marking for NAT questions.

### “Placement support for unplaced students”

18/10/2021 to 25/11/2021

- Process Management
- Main memory management
- Secondary storage management
- I/O Subsystem Management
- File Management

**What is DBMS?**

- A Database Management System (DBMS) is software designed to store, retrieve, update, and manage data in a database.
- It provides protection and security to the database. In the case of multiple users, it also maintains data consistency.
- DBMS allows users the following tasks:
  - Data Definition:** It is used for creating, modification, and deletion of database that defines the organization of data in the database.
  - Data Manipulation:** It is used for the insertion, modification, and deletion of the actual data in the database.
  - Data Retrieval:** It is used to retrieve the data from the database which can be used by applications for various programs.
  - User Administration:** It is used for registering and authenticating users, maintain data integrity, enforcing data security, dividing with necessary control, monitoring performance and recovering information corrupted by unexpected failure.

ITVishwa

Webinar on “COMPUTATIONS USING DISCRETE MATHEMATICS”

Speaker: Dr. Ranjan Kumar, VITAP University, Andhra Pradesh

Date: 01/11/2021

VISHWAKARMA INSTITUTE OF TECHNOLOGY, PUNE  
DEPARTMENT OF INFORMATION TECHNOLOGY  
ORGANIZES  
A GUEST SESSION  
ON  
**DISCRETE STRUCTURES**

**1<sup>st</sup> Nov, 2021**  
**2.00 PM- 4.00 PM**

Dr. Ranjan Kumar  
Assistant Professor, School of Advanced  
Sciences, Department of Mathematics,  
VIT-AP University, Andhra Pradesh

Co-ordinators  
Prof. [Dr.] P.P. Ghadekar  
Dr. K. B. Vayadande

**Caesar Cipher**

**Main Concept**

The Caesar Cipher is one of the simplest and most widely known encryption techniques. It is a form of substitution cipher in which each letter of the original text, known as the plain text, is shifted a fixed number of positions (either down the alphabet). This technique is named after Julius Caesar, who used it with a left shift of 3 to protect messages of military importance. Encryption occurs by performing a shift of the same magnitude but in the opposite direction on each letter of the encrypted text, known as the "ciphertext".

For example, with a right shift of 3: A would be replaced with D, B would be replaced with E, and so on until Z is replaced with X. Thus, the beginning of the alphabet would now be: A, V is replaced with R, and finally, X is replaced with C.

Encryption using a Caesar cipher can be represented using modular arithmetic by first transforming the letters of the alphabet into numbers with A=0, B=1, C=2, ..., Y=24, Z=25. Encryption of the letter x with a shift of n can be described as:

$$E(x) = (x + n) \bmod 26$$

Decryption of the same letter x with a shift of n can then be described as:

$$D(x) = (x - n) \bmod 26$$

Like all types of monoalphabetic substitution, encryption made using a Caesar cipher can be easily broken through the frequency analysis of letters and brute force attacks.

The Mark letters below illustrates the normal position of the letters of the alphabet, while the dark blue letters illustrates the shifted position of these letters in a Caesar cipher. Use the slider to adjust the magnitude of the shift, then type your message into the "Plaintext" text box and press the "Encrypt Text" button to transform it into the corresponding ciphertext.

Plaintext: \_\_\_\_\_ Ciphertext: \_\_\_\_\_

Right Shift: 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25

Therefore  $P(E_5) = \frac{1}{6}$   
Hence the final probability to getting sum is prime is  $P(E_1) + P(E_2) + P(E_3) + P(E_4) + P(E_5) = \frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6} = \frac{5}{6}$

**Example 5**  
The Blood groups of 200 people is distributed as follows: 50 have type A blood, 65 have B blood type, 70 have O blood type and 15 have type AB blood. If a person from this group is selected at random, what is the probability that this person has O blood type?

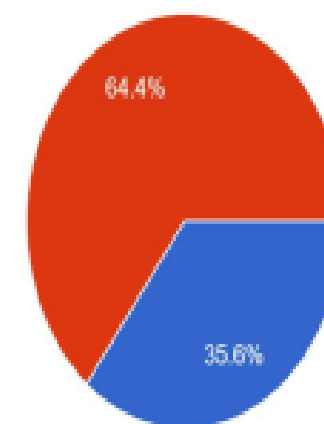
**Solution:** Number of people having O blood type = 70 =  $n(E)$   
Total number of people =  $n(S) = 200$   
As We know that,  
 $P(E) = \frac{n(E)}{n(S)} = \frac{70}{200} = \frac{7}{20}$   
So probability of people having O blood is  $\frac{7}{20}$

Formulation with Numerical V

Example 6

How would you rate this presentation?

101 responses

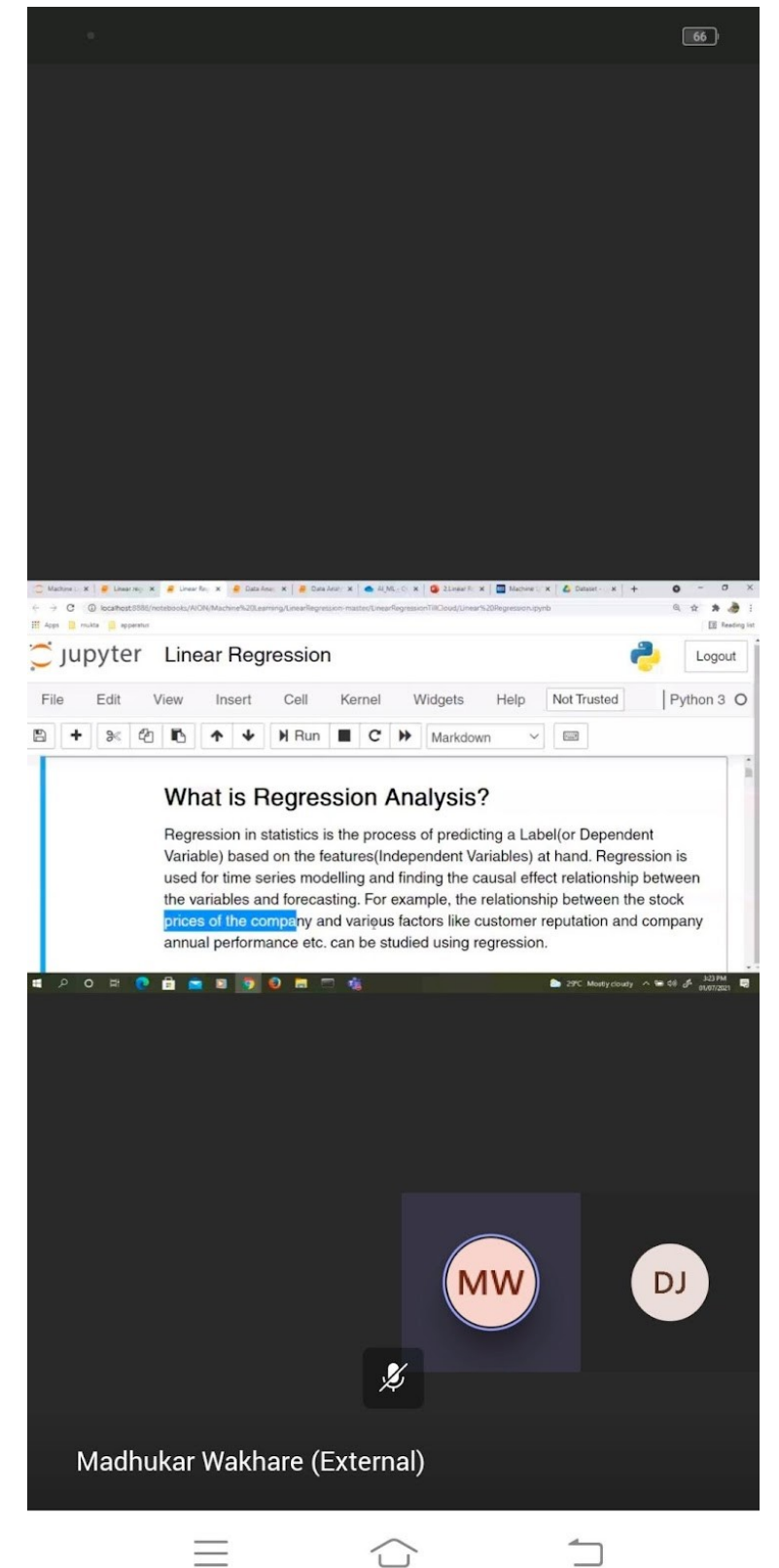
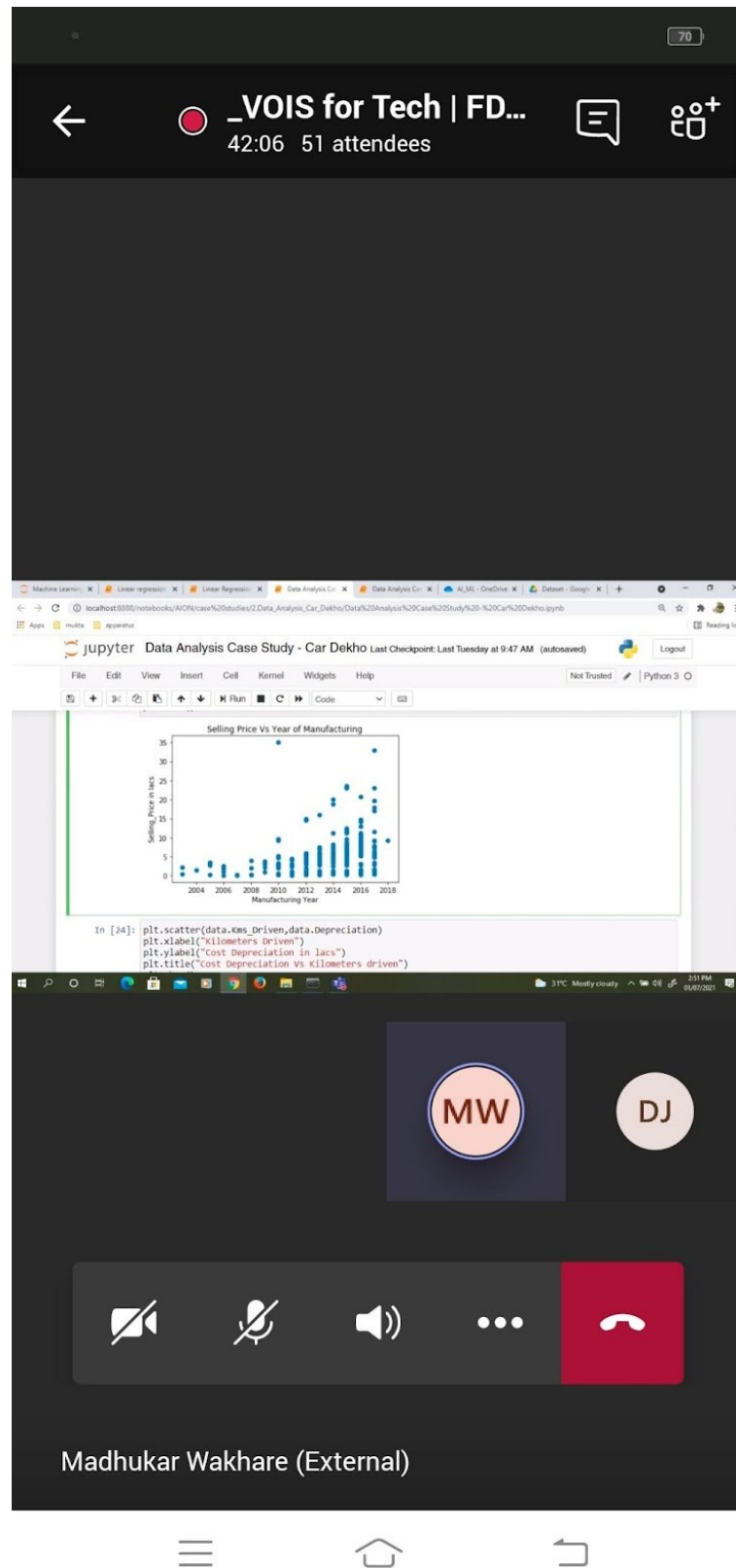


- Exceeded expectations
- Met expectations
- Did not meet expectations



## Artificial Intelligence and Machine Learning to Advance Academic Research

Expert Speaker: Mr. Madhukar Wakhare  
Date: 30/06/2021 to 02/07/2021



# “FDP ORGANIZED”



Bansilal Ramnath Agarwal Charitable Trust's  
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## DEPARTMENT OF INFORMATION TECHNOLOGY

### One Week Online Faculty Development Program

on

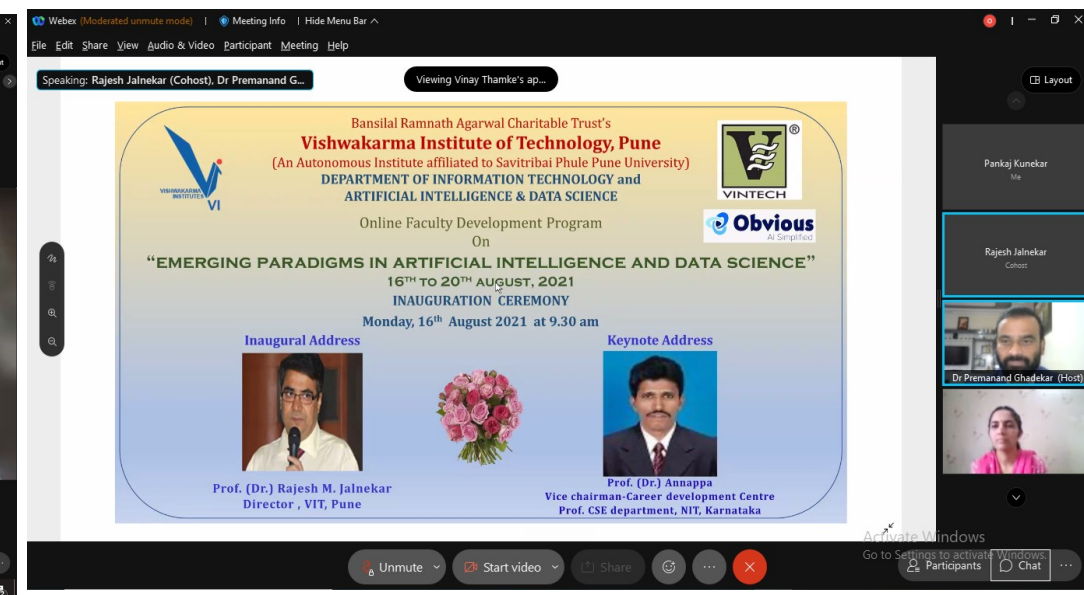
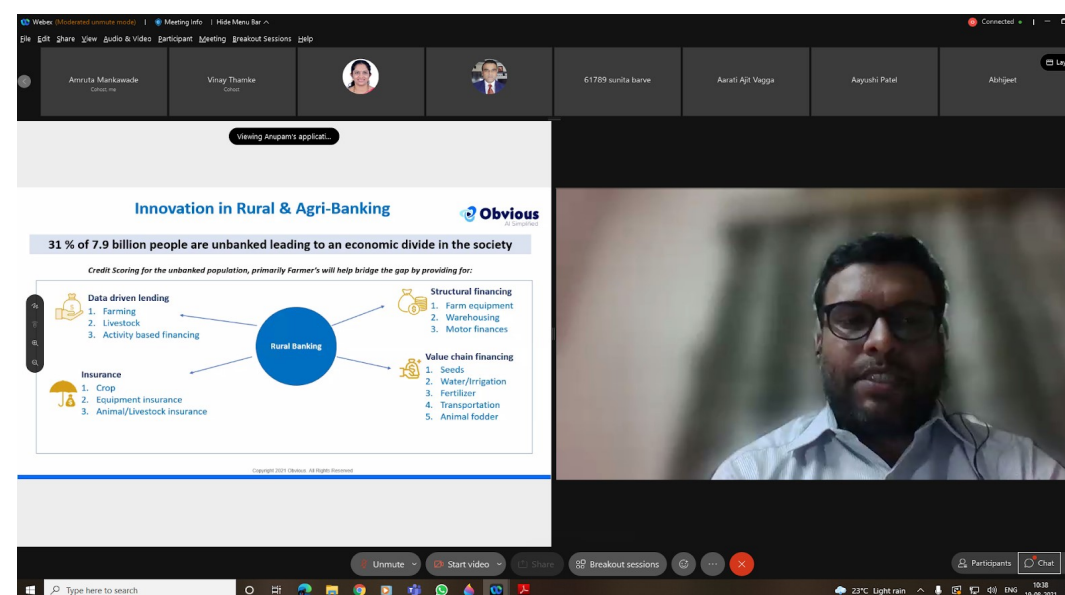
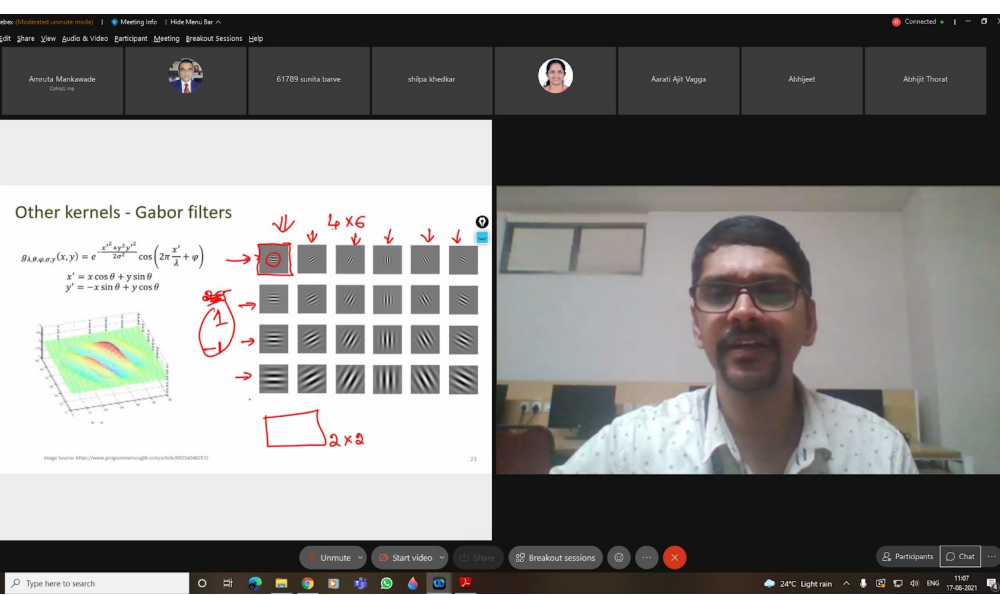
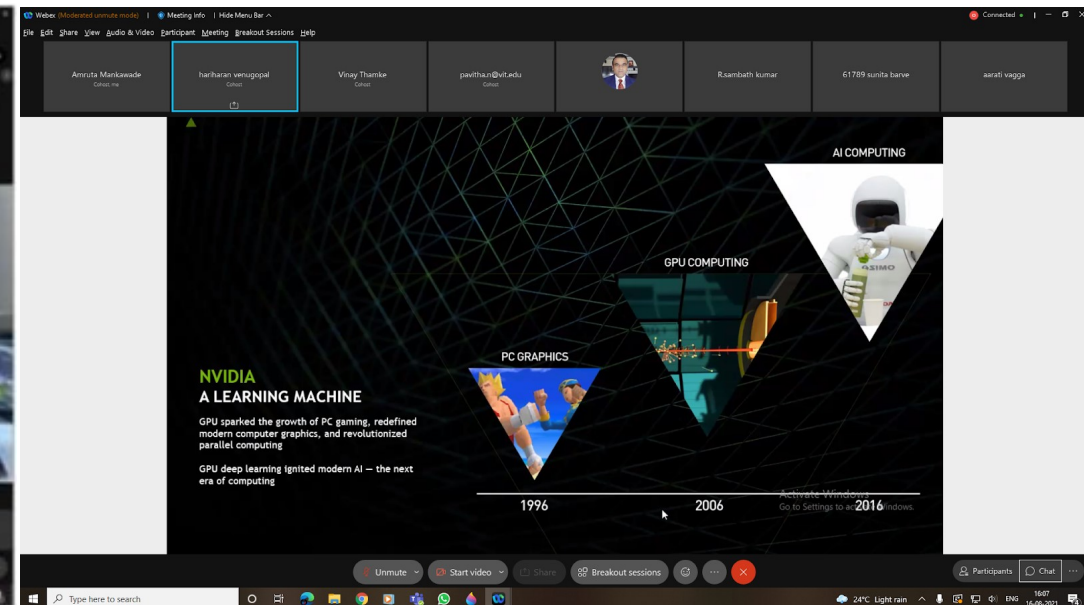
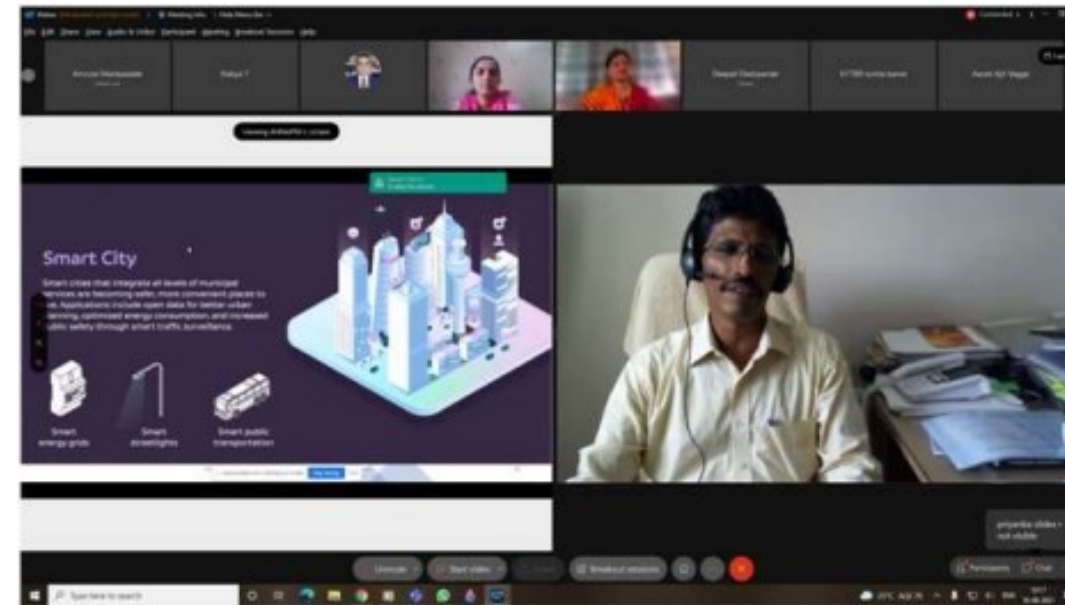
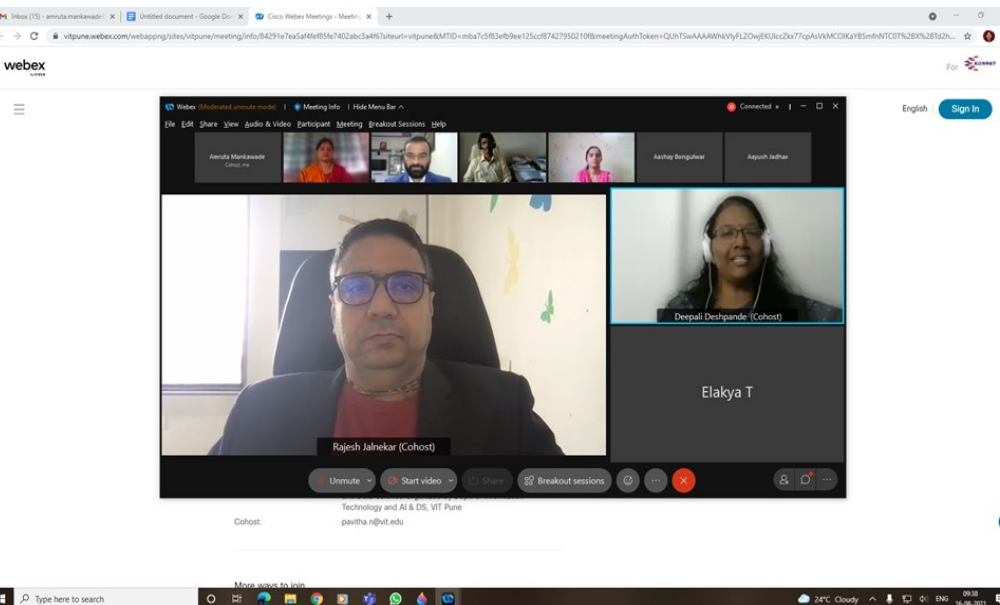
### “Emerging Paradigms in Artificial Intelligence and Data Science”

in association with

### NVIDIA Network Partner Vintech Electronic System

16<sup>th</sup> to 20<sup>th</sup> August, 2021

IT Vishwa





# “MOU WITH INDUSTRIES”



Bansilal Ramnath Agarwal Charitable Trust's  
**Vishwakarma Institute of Technology**

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## DEPARTMENT OF INFORMATION TECHNOLOGY



### Research Collaboration with Prof. P V Nataraj and his team from IIT Bombay

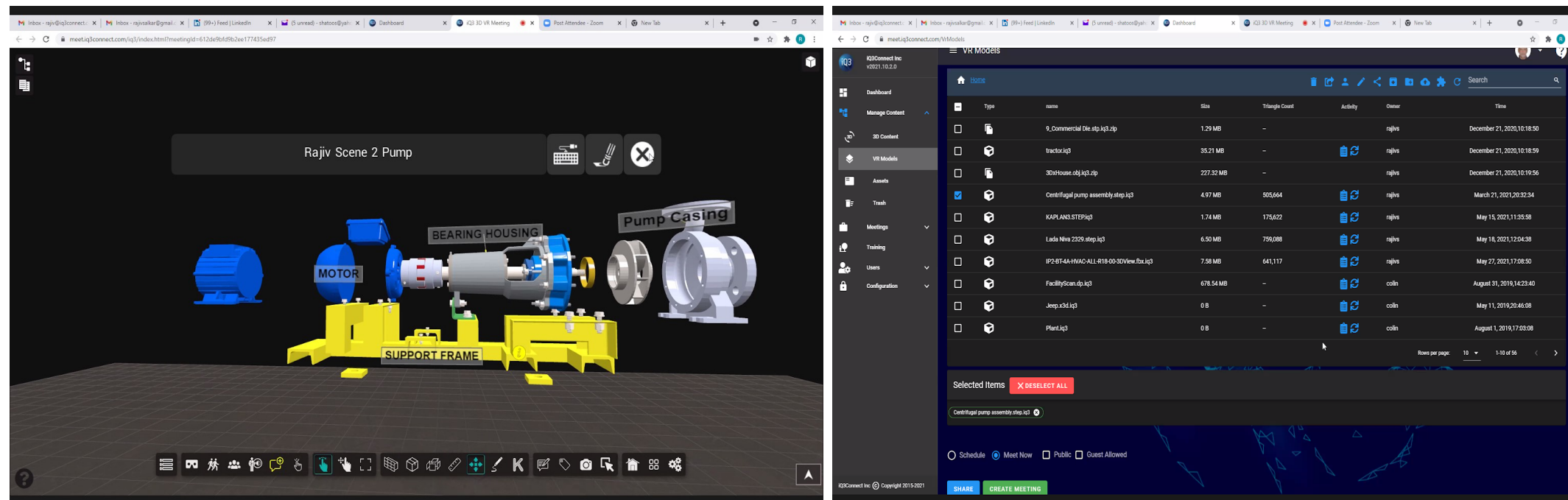


**OPEX AI Pvt. Ltd. Hyderabad**



**iQ3Connect** has offered access to the VR collaboration platform for a period of 12 months starting from 1st September 2021. The total cost of the software is Rs. 8,00,000. Under this MOU, they have provided access to cloud-based VR Platform. This platform software will help students/Faculty to develop their own AR-VR based applications.

## iQ3Connect series of Training and VR Project Development





# “MOU WITH INDUSTRIES”



Bansilal Ramnath Agarwal Charitable Trust's  
**Vishwakarma Institute of Technology**

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## DEPARTMENT OF INFORMATION TECHNOLOGY

Department has awarded as  
**GPU research Center by NVIDIA** and  
**“GPU Nodal Center” by GPU Center of excellence, IIT Bombay**



**GPU**  
RESEARCH  
CENTER



**JOHN DEERE**



**ITVishwa**



# “STUDENTS INTERNSHIP”

## DEPARTMENT OF INFORMATION TECHNOLOGY

| Sr.No. | Candidate Name          | Company Name                       | Stipend (Rs) |
|--------|-------------------------|------------------------------------|--------------|
| 1      | Nikhil Ravulaparthi     | John Deere India Private Limited   | NA           |
| 2      | Prasanna Akolkar        | Credit Suisse                      | 75000        |
| 3      | Yash Shankar Jadhav     | Siemens                            | 30000        |
| 4      | Mihir Mahajani          | Cadence Design Systems             | 18000        |
| 5      | Preeti oswal            | VMware                             | 40000        |
| 6      | Shailesh Kadam          | NVIDIA                             | 50000        |
| 7      | Aryan Kumar Gupta       | NVIDIA                             | 50000        |
| 8      | Meera Tamboli           | RNS Technology Services            | 10000        |
| 9      | Purva Kabra             | DeepThought EduTech Ventures       | 15000        |
| 10     | Himanshu Raman Pandey   | VMware                             | 40000        |
| 11     | Divsehaj Singh Anand    | TomTom                             | 35000        |
| 12     | Ashish Sanjay Vaswani   | TomTom                             | 35000        |
| 13     | Tanay Vartak            | TomTom                             | 35000        |
| 14     | Kedar Pravin Dhokarikar | Magic Software Enterprises pvt.ltd | 10000        |
| 15     | Sanket Bijawe           | Avaya Inc.                         | 35000        |

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**Vishwakarma Institute of Technology**

(An Autonomous Institute affiliated to Savitribai Phule Pune University)

## DEPARTMENT OF INFORMATION TECHNOLOGY

| Sr.No. | Candidate Name                      | Company Name                               | Stipend (Rs) |
|--------|-------------------------------------|--------------------------------------------|--------------|
| 16     | Varad Sanjay Kulkarni               | Magic Software Enterprises India Pvt. Ltd. | 10000        |
| 17     | Vedant Lapshetwar                   | Magic software                             | 10000        |
| 18     | Sangeeta Rameshkumar Malviya        | ABA AIOT PVT LTD                           | 9000         |
| 19     | Chanchal Sunil Mal                  | Tache Technologies Pvt. Lmt.               | 4500         |
| 20     | Mahesh Nagargoje                    | Integral Ad Science                        | 30000        |
| 21     | Tasmiya Tamreen Noor Ahmed Kankurti | TomTom                                     | 35000        |
| 22     | Adnan Sadar                         | LitmusBlox                                 | 25000        |
| 23     | Rutvik Deshmukh                     | Magic Software Enterprises Ltd             | 12000        |
| 24     | Yash Kolhe                          | Accolite Digital                           | 20000        |
| 25     | Rushikesh Sunil Chounde             | Accolite Digital                           | 20000        |
| 26     | Shantanu Prafulla Sontakke          | Quillhash                                  | 20000        |

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# “OUR ARTISTS”



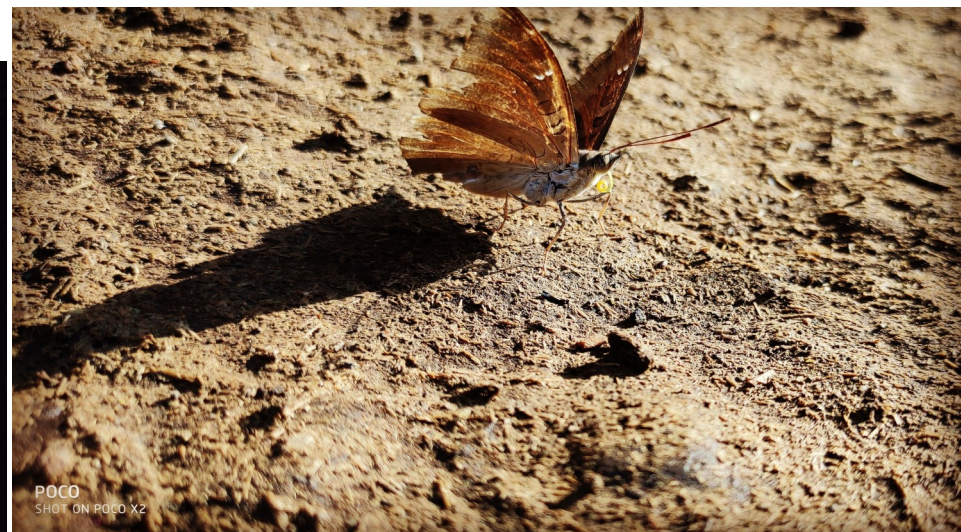
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## DEPARTMENT OF INFORMATION TECHNOLOGY



*Photography by  
Dhiraj Mukane (SY IT)*



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## “NEWSLETTER TEAM”

## DEPARTMENT OF INFORMATION TECHNOLOGY

*Faculty Coordinator: Mrs. Aparna Sawant*

*Students Coordinator: Priti Patil*

*Harshada Giri*

*Shreyas Manwadkar*

*Faijan Momin*

*Ishan Gawali*

*Adwait Bhosale*

*Sanskriti Bahure*

*Kunjali Agarwal*

*Sanket Patil*

