

Department of Computer Science and Engineering
(NBA Accredited Program till 2021-2022)**Vision**

- To provide excellence by imparting knowledge to the learners enabling them to become skilled professionals to be recognized as a responsible citizen.

Mission

- Provide quality education in the field of computer science and engineering through experienced and qualified faculty members.
- Motivate learners for higher studies and research oriented activities by utilizing resources of Centers of Excellence.
- Inculcate societal values, professional ethics, team work, and leadership qualities by having exposure at National and International level activities.

Advisory Board

Prof. (Dr.) Vipin Garg Advisor, ABESIT
Prof. (Dr.) M. K. Jha Director, ABESIT
Prof. (Dr.) Rizwan Khan Professor & HoD, CSE

Editorial Board

Ms. Archana Sharma (Asst. Prof. , CSE)
Ms. Aishwarya Gupta (Asst. Prof. , CSE)

Student Coordinators

Rajveer Singh (3rd year, CSE)
Aashna Kapoor (3rd year, CSE)
Akshika Choudhary (3rd year, CSE)
Kanishk (2nd year, CSE)

Spotlight...

- Students` Achievements
- Expert talks/ Workshop
- Project Idea Presentation Competition
- Faculty
 - Achievements
 - Publication
 - Patents
- Faculty Development Program
- Alumni Interaction
- Students` Placement

SIH2020- Grand Final-Software Winner**ABESIT Team Received 1st Prize of Rs. 1 Lac**

Upendra Kumar Tiwari
(Mentor)



Shatabdi Singh
(Team Leader)



Vaibhav Raj Srivastava
(Team Member)



Ayushi Gupta
(Team Member)



Apurv Garg
(Team Member)



Shikhar Kant Sinha
(Team Member)



Pranjal Sharma
(Team Member)

Big Congratulations to
Team Hex#Clan of
ABESIT
for Securing
1st Position

in
SMART INDIA HACKATHON 2020
for developing an enterprise level
"Instant Communication-Solution Provider" for
Department of Financial Services,
Government of India
under the mentorship of
Prof. Upendra Kumar Tiwari.

Congratulations...!!!

Smart India Hackathon 2020 Grand finale was held from 1st to 3rd August 2020. Four teams were selected for the final round and the **Team Hexclan** consisting of Shatabdi Singh (Team Leader), Vaibhav Raj Srivastava, Ayushi Gupta & Apurv Garg from the Department of Computer Science and Engineering won the **1st prize and Cash Prize of Rs. 1,00,000** for suggesting a solution for "plans to venture from Innovations to Start-up under the guidance of Ministry of Education's Innovation Cell".
The remaining three teams -Team Intelleneur, Musketeers & Incognito won participation certificates.

Ankur Seem, 2nd Year CSE presented a paper titled, “Artificial Neural Network, Convolutional Neural Network Visualization and Image Security” in 5th International Conference on **Soft Computing: Theories & Application (SoCTA-2020)** by STEM Research Society, Proceedings in AISC Series, Springer was conducted in virtual mode.



Shreya Puneetha, 3rd Year CSE won the 1st Prize of Rs. 2000 for Core Quiz in Hacknovate 2.0 organised by ABES Institute of Technology, IIC in association with EDUGRAD.



Team Intimidators (Nipun Tyagi -Team Leader, Nikita Chauhan, Mohd. Gulfam, Muskan Agarwal) secured the 2nd position in **Tata Crucible Hackathon 2020** and awarded with Certificate of Honour and cash prize of Rs. 30,000.



Rubix, Technical Club of Department of Computer Science and Engineering organised an event “**Competitive Programming Junior Coding Challenge**” on 3rd October 2020 for the students of 2nd and 3rd year all branches in which **Hari Om Kushwaha, Arijeet Tyagi and Saurabh Bhardwaj** secured the 1st, 2nd and 3rd position respectively.



Adya Pandey, 2nd Year CSE won the 1st Prize of Rs. 2000 for Basic Quiz in Hacknovate 2.0 organised by ABES Institute of Technology, IIC in association with EDUGRAD.



Team “**The Red Coder**” of Hari Om Kushwaha & Subh Agarwal grabbed the 4th position in Hacknovate 2.0 Virtual Hackathon organised by ABES Institute of Technology, IIC in association with EDUGRAD.

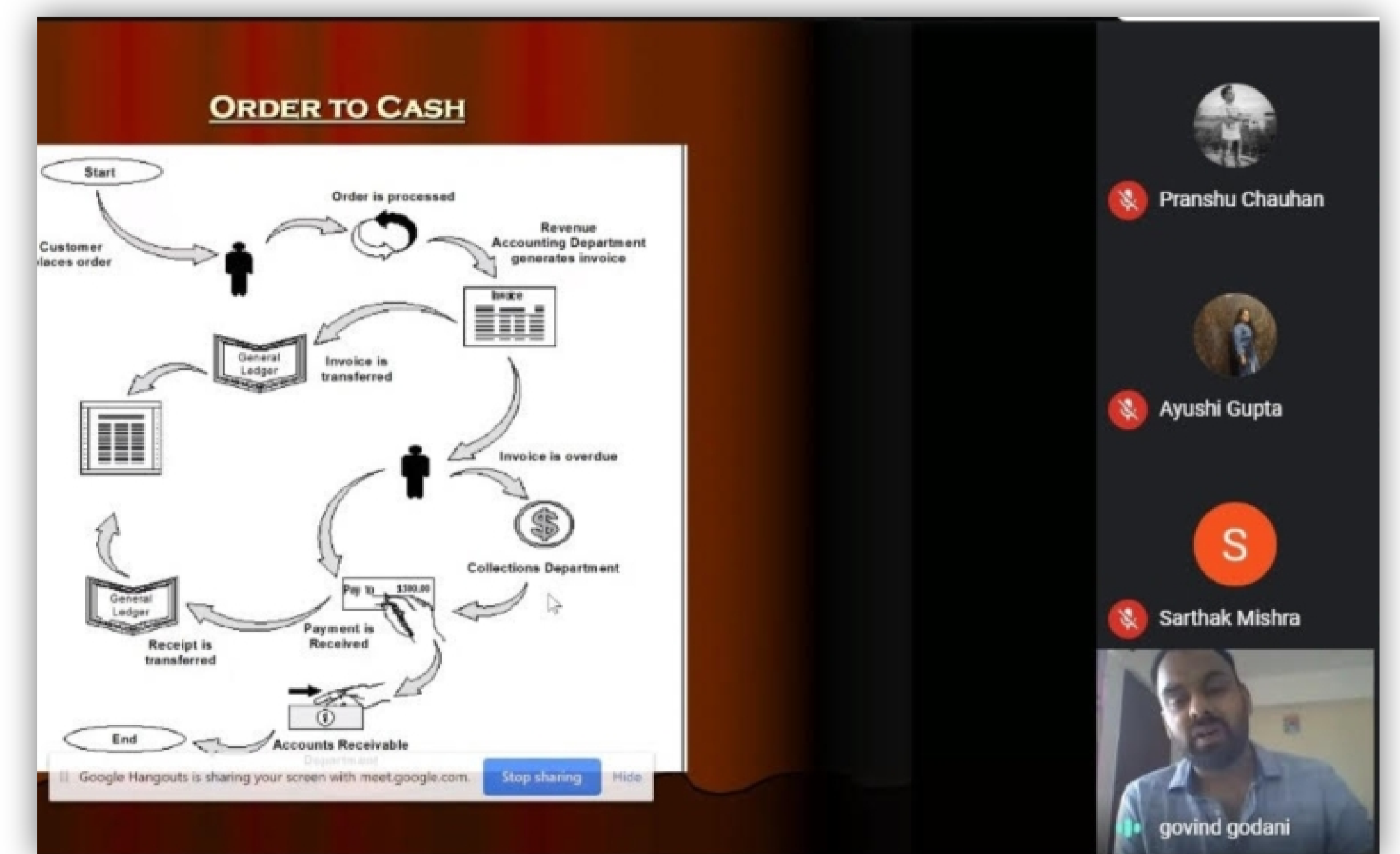


Expert Talk on Oracle EBS with Cloud Computing for 3rd and 4th Year students.

An Expert Talk on “Oracle EBS with Cloud Formation” was delivered by Mr. Har Govind Godani, Oracle Application Functional Analyst, Expedia Group on 22.8.2020.

This Expert Talk was an attempt to bridge the gap between Students' subject knowledge and Industry expectations.

During The Expert Talk Students were very much interactive and participated in hands-on session. They were able to enhance their knowledge about Oracle EBS with Cloud Computing.



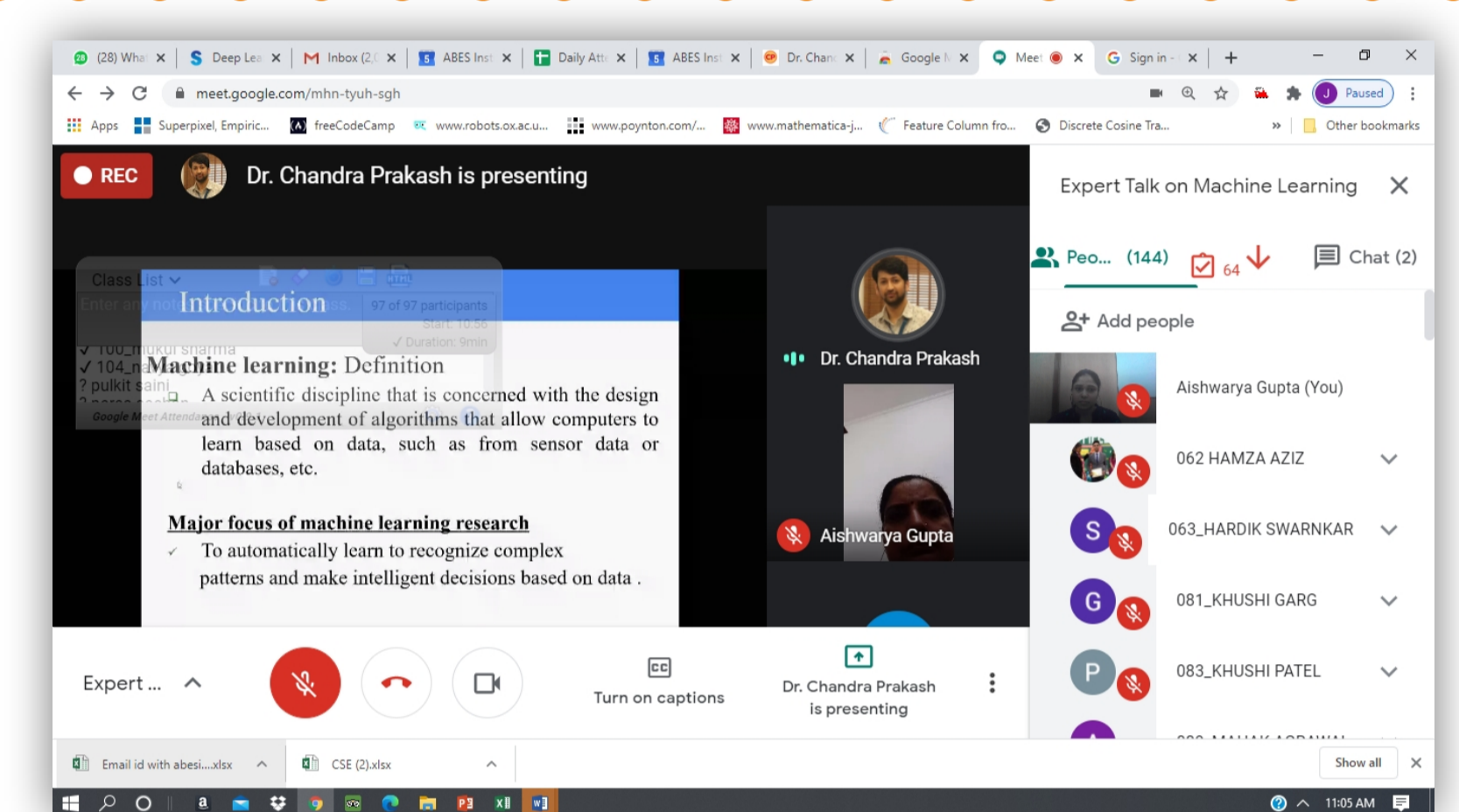
Expert Talk on Machine Learning for 2nd and 3rd Year students.

An Expert Talk on “Machine Learning” was conducted online on 05.09.2020 by Dr. Chandra Prakash, Assistant Professor, NIT, Delhi.

The Expert Talk on Machine Learning has augmented Students' subject knowledge with application specific implementation.

During the session Students learned about recent advancements in

Machine Learning, Neural Networks and their applications to solve day to day problems.

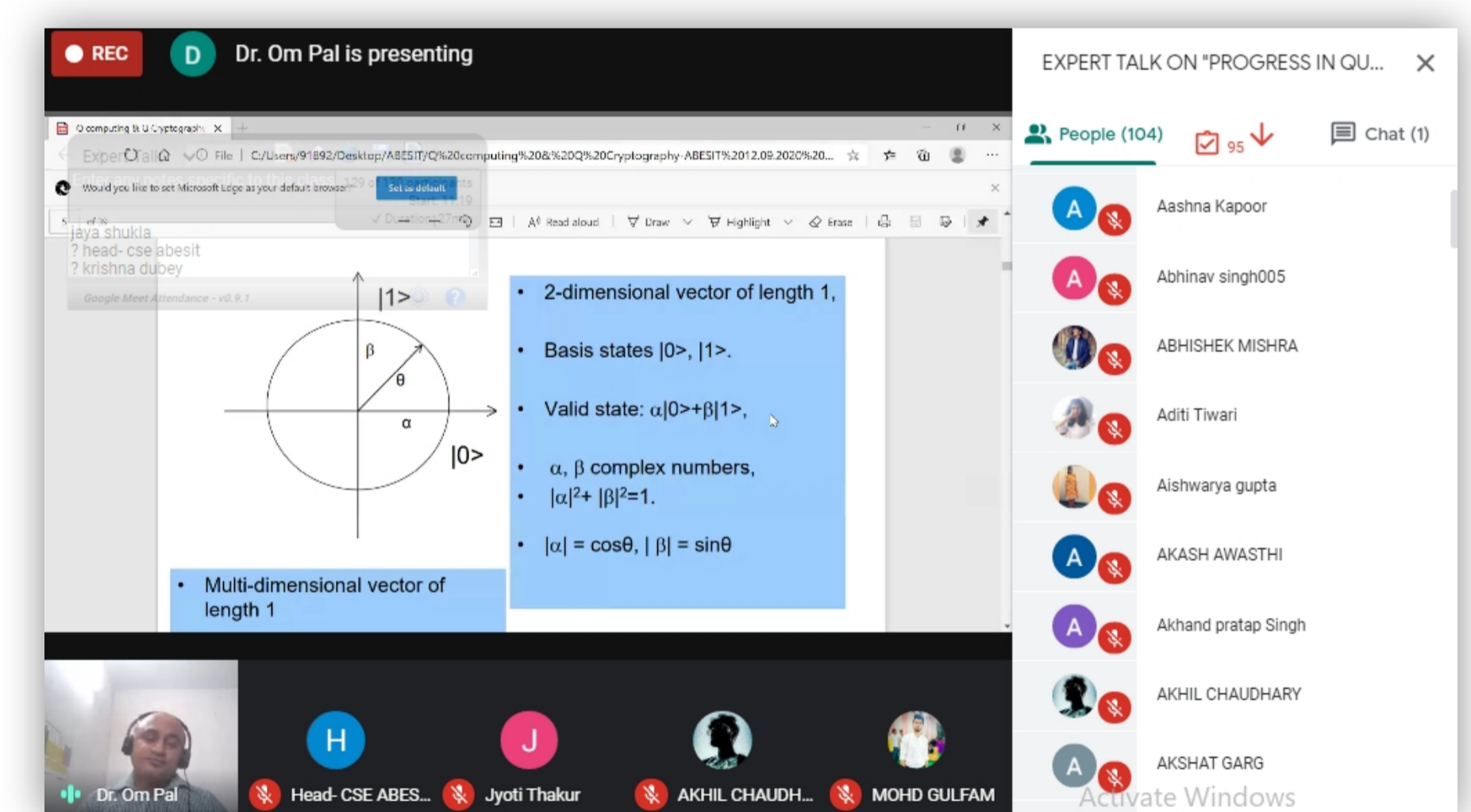


Expert Talk on Progress in Quantum Computing and Quantum Cryptography for 2nd and 3rd Year students.

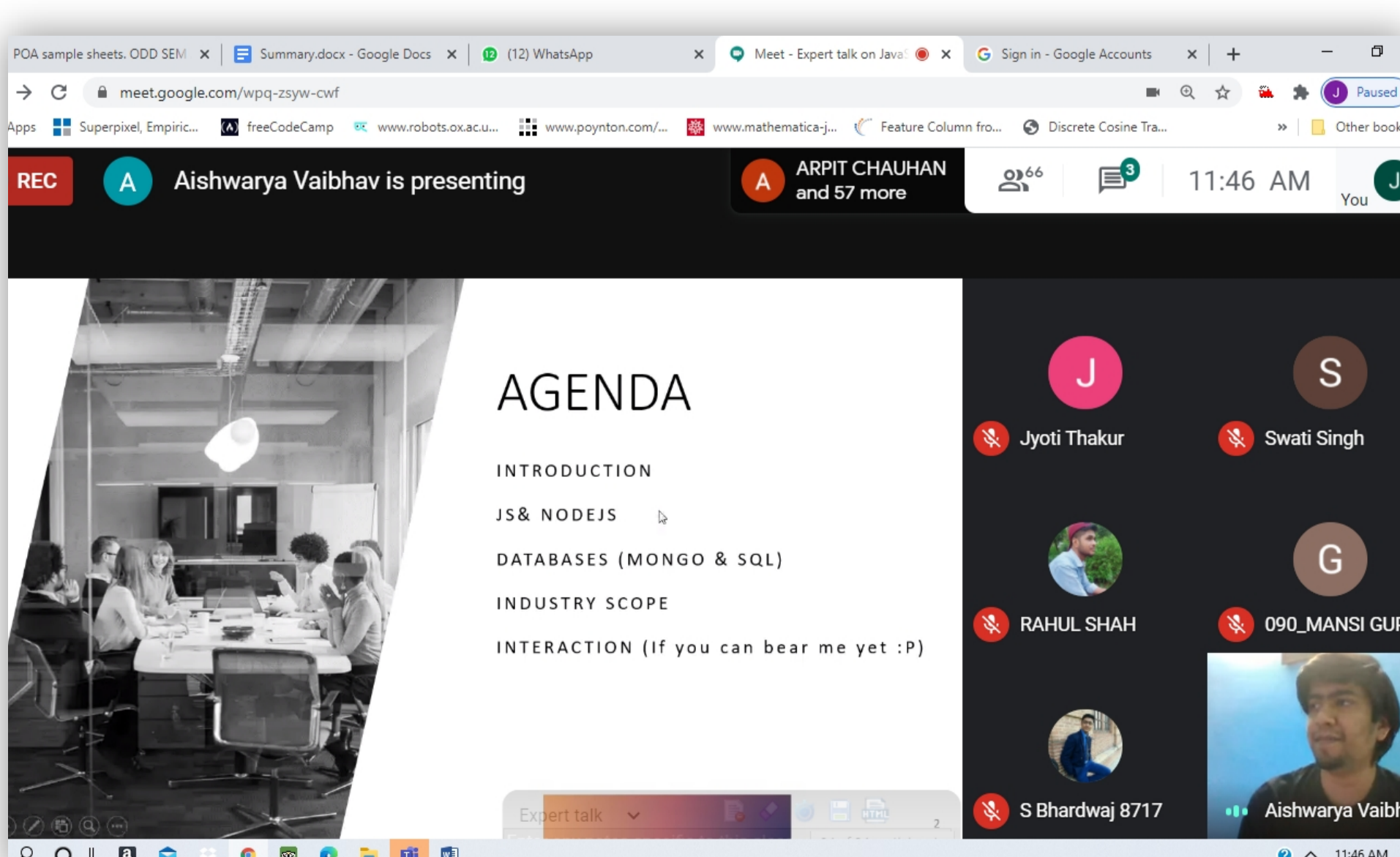
An Expert Talk on “Progress in Quantum Computing & Quantum Cryptography” was conducted online on 12.09.2020 by Dr. Om Pal, Scientist ‘D’ R&D in IT Group Ministry of Electronics & Information Technology, Government of India, New Delhi.

This Expert Talk was an attempt to bridge the gap between University curriculum and Industry expectations.

Students explored the field of Quantum Computing which is an emerging area for the ones who have interest in physics as well as security. This talk helped in motivating and guiding the interest of students and paved the way for future aspirations towards this subject also.



Expert talk on Computer Graphics and animation for 3rd year students



An Expert Talk on “Computer Graphics and Animation” on 31.10.2020 by Dr. R. Rama Kishore, Associate Professor, GGSIPU was organized by the Department of Computer Science and Engineering.

This Expert Talk bridges the gap between subject knowledge and implementation aspects of Graphics and Animation.

Students came to know about the various areas of Computer Graphics in which they will have future prospects.

This has given a boost to the inquisitiveness among the students about employability in the area of Graphics and Animation.

Project Idea Presentation Competition:

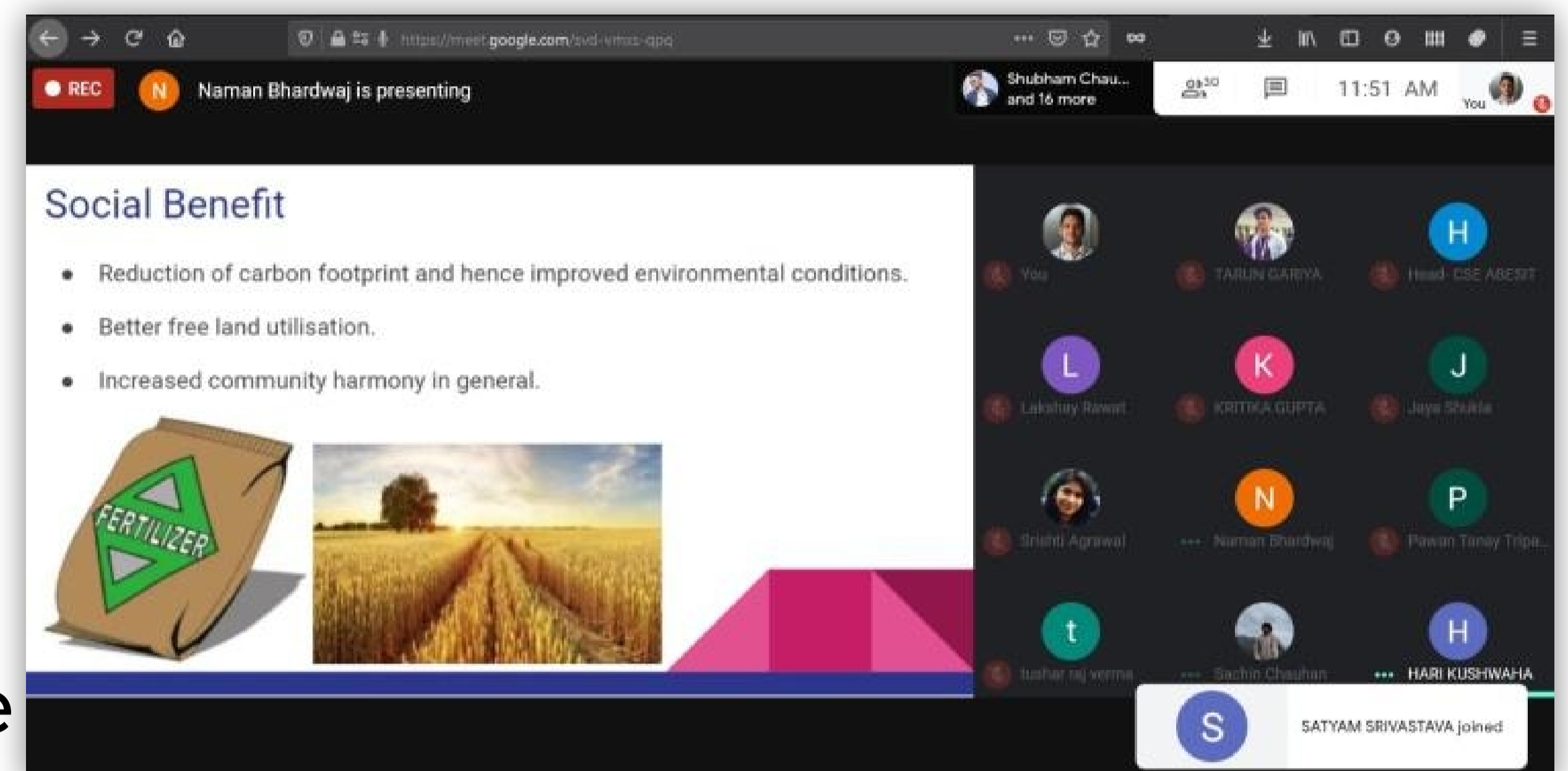
Samadhan Event: for 2nd and 3rd year students organised by 4th year students

- The Department of Computer Science & Engineering
- successfully organized the Project Idea Presentation
- Competition "Samadhaan- 2020" on 19.09.2020.
- **Participants:** 26 Teams from 2nd Year and 3rd Year
- **After First Round Shortlisted Teams:** 14
- **Alumni as Judges:** 1. Tushar Raj Verma - Batch 2016-20,
2. Srishti Agarwal - Batch 2016-2020 and
3. Amit Verma - Batch 2012-2016
- **Platform :** Google Meet.
- **Judgement Parameters:** Uniqueness (10), Practicability (10), Economic Benefit (10), Social Benefit (10), Scope of Scalability(5), Implementation(5).
- **Outcome of the Event :** Students got exposure analysing the real life problems that are yet to be solved and require technological solutions. This will be helpful in building up the solutions for various social problems.



2B or not 2B: No. of participants:162

- Competitive Programming Solo Contest "2B || !2B" (i.e., To Be Or Not To Be) was organised under the CodeChef Campus Chapter of ABESIT Omega_one on 30.08.2020.
- Students needed to solve advanced Data Structure and Algorithm problems within a specific time limit in various competitions.
- This Event will supplement in placement activity as well. The fundamental and advanced concepts of competitive programming can be improved through MCQ practice.



Paper Publication

R. Khan, Piyush Shrivastava, Aashna Kapoor, Aditi Tiwari, Abhyudaya Mittal, “**Social Media Analysis With AI: Sentiment Analysis Techniques For The Analysis Of Twitter Covid-19 Data**” Journal Of Critical Reviews, ISSN-2394-5125, Vol 7, Issue 09, 2020.

Nipun Tyagi, Nikita Chauhan, Ayushi Sigal and R. Khan, “**SANJYOT – We Save Life Using Big Data - Apache Spark**” EAI Endorsed Transactions on Cloud Systems, 16 October 2020, DOI:10.4108/eai.16-10-2020.166660

Jatin Sharma, Kartikay Sharma, Kaustubh Garg, Avinash Kumar Sharma published a paper “**Product Recommendation System a Comprehensive Review**” ICCRDA 2020, IOP Conf. Series: Materials Science and Engineering, DOI:10.1088/1757-899X/1022/1/012021.

G. K. Rahul published a paper “**Weather Forecasting Using Artificial Neural Networks**”, 8th IEEE International Conference on Reliability, Infocom Technologies and Optimisation (ICRITO-2020) Amity University, Noida, 15 Sep 2020, DOI:10.1109/ICRITO48877.2020.9197993.

R. Khan, A. Qahmash, M. R. Hussain, “**Automatic Testing for Web Application Using HP-ALM Tool**” International Journal of Engineering Research and Technology, ISSN 0974-3154, Vol 13, Issue 12 , PP 4662-466, Scopus Indexed.

R. Khan, A. Qahmash, M. R. Hussain, “**Soak Testing of Web Applications Based on Automatic Test Cases**” International Journal of Engineering Research and Technology, ISSN 0974-3154, Vol 13, Issue 12, pp 4746-4750, Scopus Indexed.

Achievements of Faculty Members Department of CSE

Dr. Rizwan Khan chaired a session on 18th, 19th & 20 September 2020 in virtual mode. He also conducted a special session on Artificial Intelligence and Nature-Inspired Algorithm in 4th International Conference on Intelligent Computing and Communication (ICICC-2020), at Dayananda Sagar University, Bengaluru, India.

Dr. Rizwan Khan chaired a session on 24th Oct 2020 in virtual mode. He also conducted a special session on Emerging Trends in Artificial Intelligence and Optimization in 1st International Conference on Computational Research and Data Analytics (ICCRDA-2020).

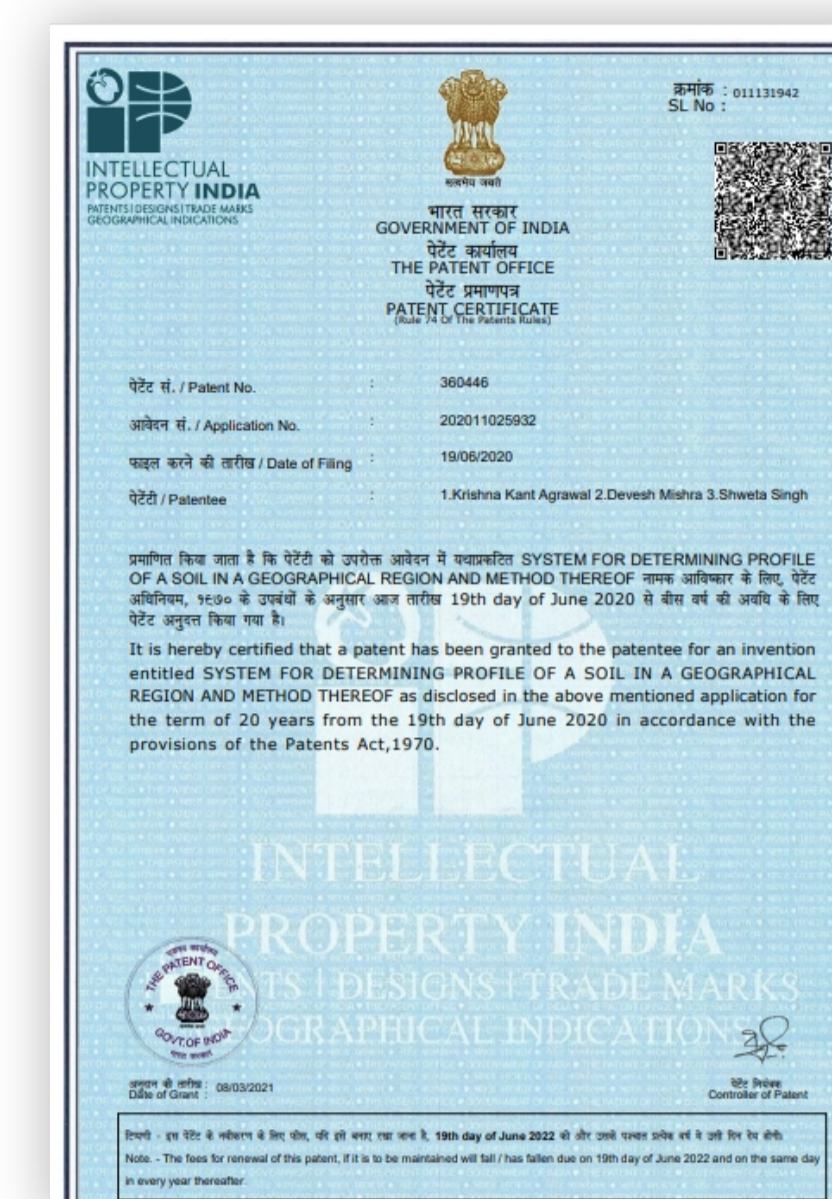
Dr. Rizwan Khan chaired a Session on 25th – 27th Dec 2020 in virtual mode. He also conducted a special session on Emerging Trends in Artificial Intelligence with Machine Learning and Nature-Inspired Algorithms in 5th International Conference on Soft Computing: Theories and Applications (SoCTA2020).

Mr. Avinash Kumar Sharma chaired a Session on 24th Oct 2020 in virtual mode. He also conducted a special session on Computational Research and Data Analytics (ICCRDA-2020), in 1st International Conference .

Congratulations!!!!

Patent Granted:

A Patent has been granted to Dr. K. K. Agrawal for his invention titled “System for Determining Profile of a Soil in Geographical Region and Method” for the term of 20 years from the 19th day of June 2020 in accordance with the provision of the Patents Act, 1970.



Patents Filed:

1. **Name of Applicant:** Mr. Satya Prakash Yadav

Name of Inventor: Mr. Satya Prakash Yadav and Dr. Rizwan Khan

Title of the invention: An Efficient Machine Learning And Feature Extraction System For Medical Image Recognition, Application No. 201911040532A, Publication Date: 18/10/2019.

2. **Name of Applicant:** Dr. Rizwan Khan and Mr. Satya Prakash Yadav

Name of Inventor: Dr. Rizwan Khan and Mr. Satya Prakash Yadav

Title of the invention: Automatic Test Data Generation For Machine Learning Using Hybrid Genetic Algorithm, Application No.2019110494222A, Publication Date: 20/12/2019.

Book Chapter:

A. Gupta, "Decision Procedures" Book Chapter published in book **Distributed Artificial Intelligence: A Modern Approach** under CRC Press, December 2020.

N. Dhingra, M. Gupta, N. Bhati, P Kumari, R. Khan, "Instantiating description of organizational structures" Book Chapter published book **Distributed Artificial Intelligence: A Modern Approach** under CRC Press, December 2020.

A. Seem, A. K. Chauhan, R. Khan, S. P. Yadav, "Distributed Artificial Intelligence for Document Retrieval" book Chapter published book **Distributed Artificial Intelligence: A Modern Approach** under CRC Press, December 2020.

N. Tyagi, N. Chauhan, A. Singhal, J. Ojha, R. Khan, "Big Data and Deep Learning Analytics" Book Chapter published book **Deep Learning and Big IoT Data: Concepts and Applications** under CRC Press, December 2020.

Faculty Development Program

1. Dr. Rizwan Khan attended five days Faculty Development Program on “Machine Learning” from 28.7.2020 to 01.08.2020, Department of Computer Science & Engineering, Maharishi Markandeshwar Engineering College, Maharishi Markandeshwar (Deemed to be University), Mullana, Ambala.

2. Dr. K.K. Agarwal attended one week Faculty Development Program on Cyber Security, 07.09.2020-12.09.2020, organized by Supraja Technologies.

3. **Mr. Upendra Kumar Tiwari** attended one week Faculty Development Program " Artificial Intelligence using Python" from 14.9.2020 to 19.9.2020 on Brainovision Solutions India Pvt. Ltd. & National Youth Council of India.
4. **Mr. Upendra Kumar Tiwari** attended one week Faculty Development Program on Cyber Security, 07.09.2020-12.09.2020, organized by Supraja Technologies.
5. **Mr. K.B. Dubey** attended one week Faculty Development Program on Cyber Security, 07.09.2020-12.09.2020, organized by Supraja Technologies.
6. **Dr. Rizwan Khan** attended a workshop on "A Path of Data Mining with Big Data" on 07.07.2020, Sagar Group of Institutions, Bhopal.
7. **Mr. Avinash Sharma** attended one week Faculty Development Program on Cyber Security, 07.09.2020-12.09.2020, organized by Supraja Technologies.
8. **Ms. Archana Sharma** attended one week Faculty Development Program on Cyber Security, 07.09.2020-12.09.2020, organized by Supraja Technologies.
9. **Mr. Sanjeev Kumar** attended one week Faculty Development Program on Cyber Security, 07.09.2020-12.09.2020, organized by Supraja Technologies.
10. **Mr. Raj Kumar** attended one week Faculty Development Program on Cyber Security, 07.09.2020-12.09.2020, organized by Supraja Technologies.
11. **Ms. Jaya Shukla** attended one week Faculty Development Program on Cyber Security, 07.09.2020-12.09.2020, organized by Supraja Technologies.
12. **Ms. Aishwarya Gupta** attended one week Faculty Development Program on Cyber Security, 07.09.2020-12.09.2020, organized by Supraja Technologies.
13. **Mr. Govind Kumar Rahul** attended one week Faculty Development Program on Cyber Security, 07.09.2020-12.09.2020, organized by Supraja Technologies.
14. **Mr. Megh Singhal** attended one week Faculty Development Program on Cyber Security, 07.09.2020-12.09.2020, organized by Supraja Technologies.
15. **Ms. Priyanka Gupta** attended one week Faculty Development Program on Cyber Security, 07.09.2020-12.09.2020, organized by Supraja Technologies.
16. **Ms. Jyoti Thakur** attended one week Faculty Development Program on Cyber Security, 07.09.2020-12.09.2020, organized by Supraja Technologies.
17. **Ms. Swati Singh** attended one week Faculty Development Program Program on Cyber Security, 07.09.2020-12.09.2020, organized by Supraja Technologies.
18. **Ms. Aishwarya Gupta** attended one week Faculty development Program on Machine Learning and Its Applications using Python, 29.06.2020-03.07.2020, organized by AKGEC, Ghaziabad in Collaboration with Consilio Intelligence Research Lab Noida.
19. **Ms. Aishwarya Gupta** attended one week Faculty development Program on , Machine Learning and Deep Learning Applications using Python, 26.08.2020-31.08.2020, organized by IMS, Ghaziabad.

Alumni Interaction

An Expert Session organised by Alumni

1. Name : Mr. Aishwarya Vaibhav (Software Engineer, StepSetGo)

Batch: 2014-2018

Topic: Expert Talk on JavaScript, Node.js and Databases

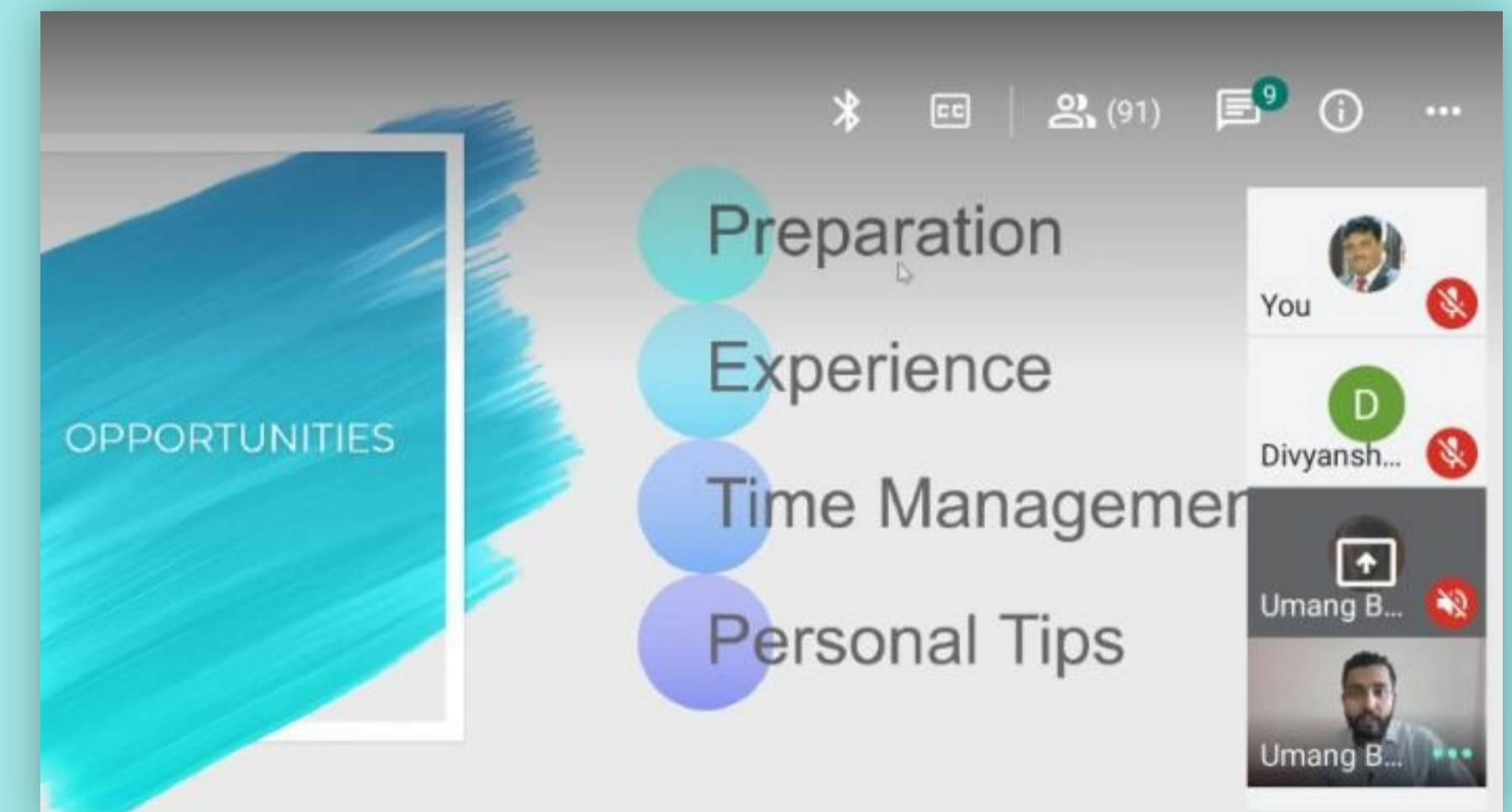
Date: 03 October 2020

2. Name : Mr. Umang Bhatnagar (Pilot)

Batch: 2012-2016

Topic: Experience-Opportunities-Rewards | "4 years of non-stop efforts until you make yourself proud"

Date: 06 October 2020 .



3. Name : Mr. Pranjal Kumar Singh, Software Engineer (Gemini Solution)

Batch: 2014-2018

Date: 28 September 2020

Topic: Motivational Lecture

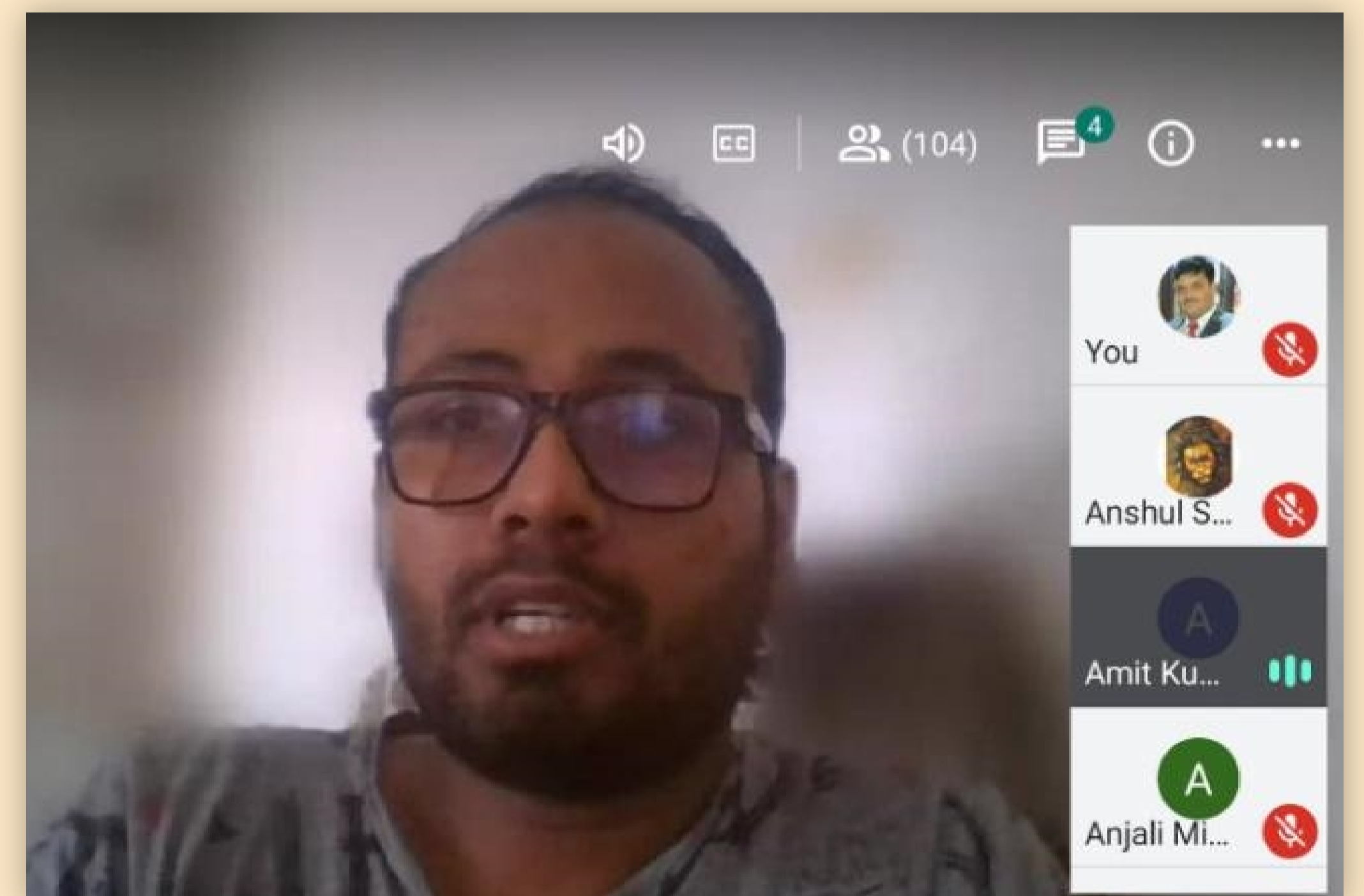
4. Name : Mr. Amit Verma, Software Engineer (Paytm Noida)

Batch: 2012-2016

Date: 30 September 2020

Topic: Motivational Lecture

He motivated students to participate in live project development competitions to keep themselves updated so that they contribute in solving real world problems.



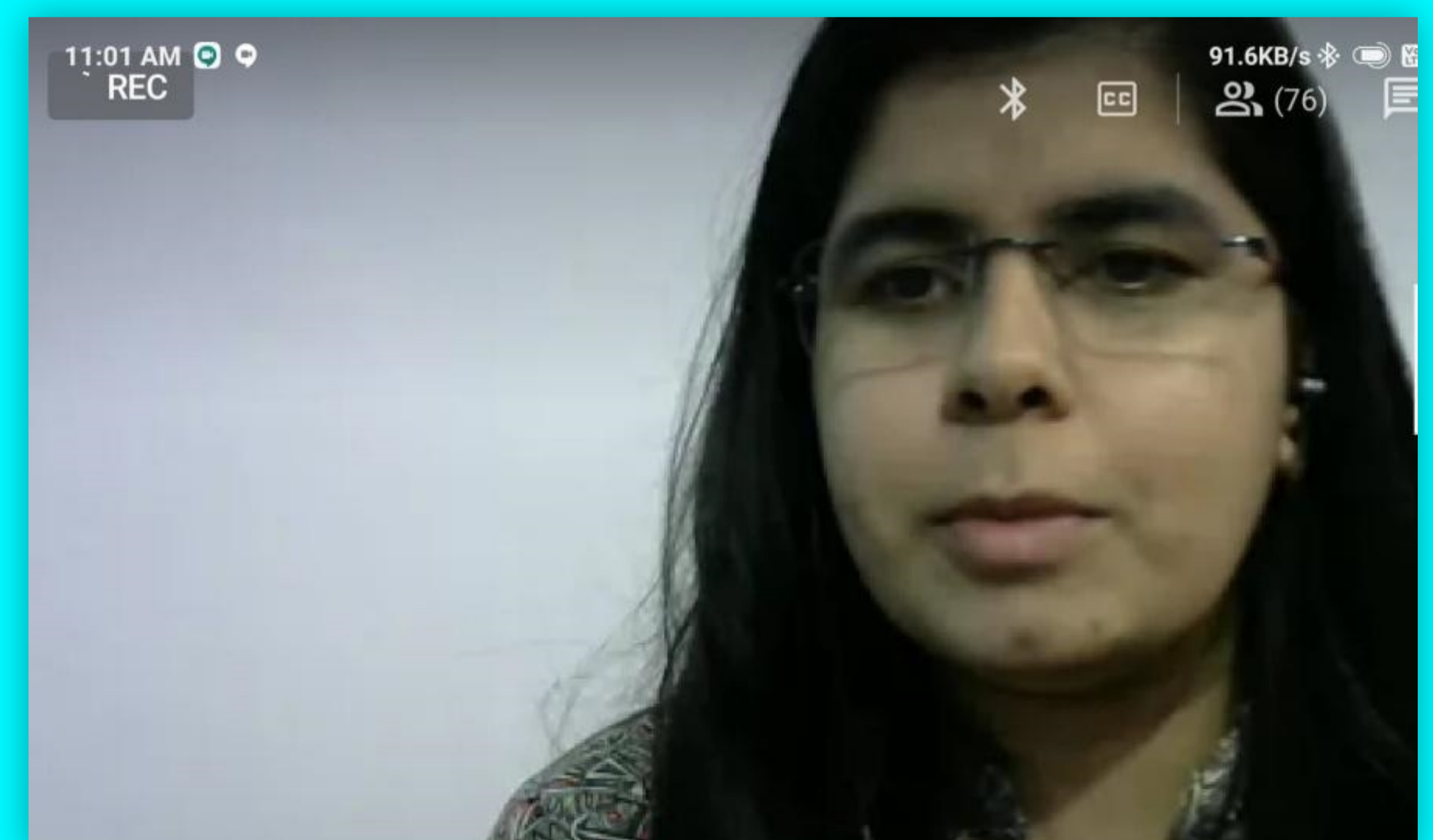
5. Name : Ms. Priyanka Chaudhary (Senior Associate, Smalt and Beryl)

Batch: 2014-2018

Date: 15 October 2020

Topic: Campus to Corporate: Creating Opportunities

She explained the ways to create various opportunities to enhance students career through curricular & extra-curricular activities.



Corporate Resource Centre (CRC)

The Corporate Resource Centre plays a significant role round the year to maintain high placement statistics over the years to bridge the gap between the stringent competition in the industry and academia. With adequate training and support, students enhance their skills and understand how to showcase their abilities in the best possible way. The CRC organizes various training programs to enhance the skill sets of students like Mock Interviews, Group Discussions, Communication Skills Workshop etc. In the current semester (7th Sem.) approx., 35 companies approached for placement; out of them 56 students got placed in various Companies.

