



**CHANDIGARH  
GROUP OF COLLEGES**

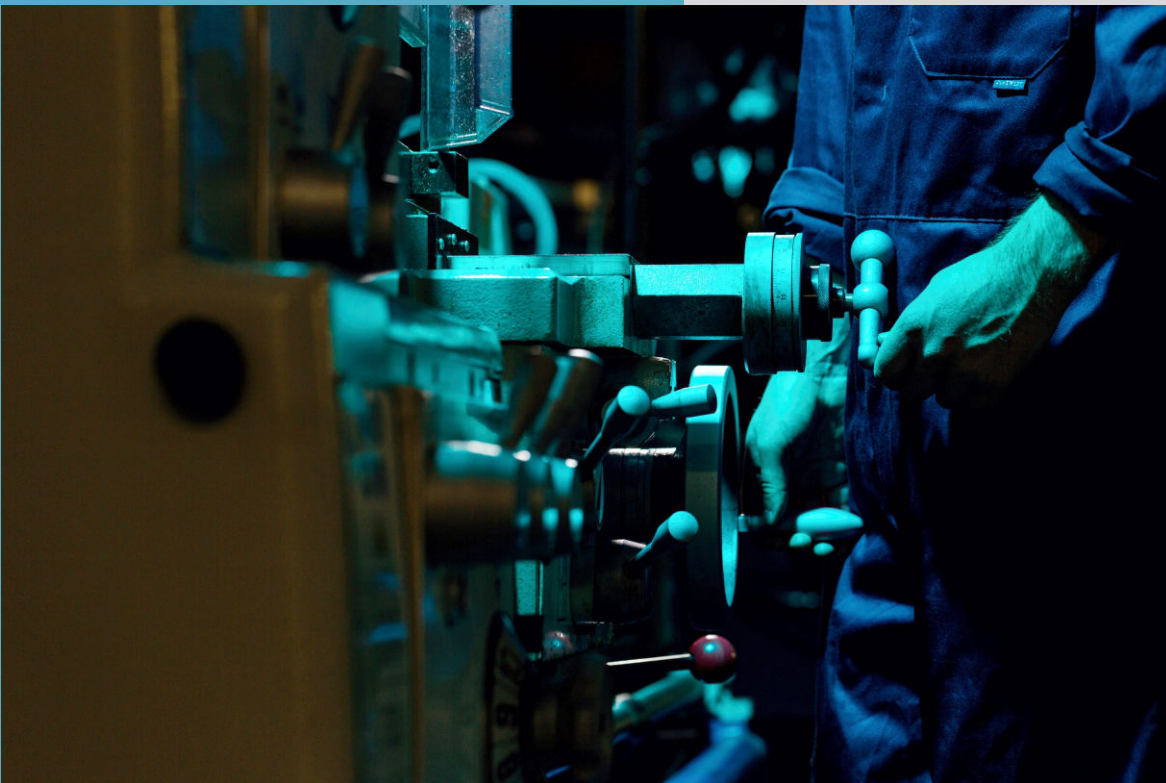
Building Careers. **Transforming Lives.**

# The Communique

Newsmagazine | Volume-18

*An Institution of Excellence*

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### ***Vision of the Chandigarh Engineering College***

To become a leading institute of the country for providing quality technical education in a research based environment for developing competent professionals and successful entrepreneurs.

### ***Mission of the Chandigarh Engineering College***

- 1.** To provide state of the art infrastructure and engage proficient faculty for enhancing the teaching learning process to deliver quality education.
- 2.** To give a conducive environment for utilizing the research abilities to attain new learning for solving industrial problems and societal issues.
- 3.** To collaborate with prominent industries for establishing advanced labs and using their expertise to give contemporary industry exposure to the students and faculty.
- 4.** To cater opportunities for global exposure through association with foreign universities.
- 5.** To extend choice based career options for students in campus placements, entrepreneurship and higher studies through career development program.





**Dr. P.N.Hrisheeksha B.E., M.Tech., Ph.D.,(IIT Roorkee)  
Campus Director**

Chandigarh Engineering College is committed to accomplish greatness in technical, management, pharmacy education & research and evaluates the achievement and initiative of its projects utilizing the best expectations of value, development, and visibility. We will probably be the most favoured selection of students, faculty and industries and to be in the top in every discipline of engineering, management, and pharmacy. Our aim is to accomplish worldwide administration in human development and greatness in instruction. Our targets of conferring proficient education, joined with encouraging imaginative speculation, use of information, instilling proficient morals and cognizance to social obligations, are being met at CEC in an incorporated structure. We wish to energize and encourage research exercises and coordinate it with the instructing learning measure. We put stock in deep rooted learning and preparing prompting advantages of the society.

I'm certain that with the coordinated endeavours of team CEC, the group will scale up to the more noteworthy statures of greatness in the years to come. CEC, plays a vital role in producing world-class engineers, pharmacist and management professionals required to meet the demands of the fast-changing global society. Our vision is impacting society through globally skilled technologists with the essential target to give quality education through long haul esteem creation. We are committed to ensuring quality education. Aside from educational plan based examinations, the accentuation is made on the advancement of imaginative driven tasks, cooperation with businesses, delicate ability and character improvement, co-curricular and extra-curricular exercises.

Our basic beliefs of information, character, greatness, uprightness, straightforwardness, quality, collaboration, execution with enthusiasm, trust, consistent and understudy driven learning are on the whole firmly coordinated into our scholastic projects. We have more than 21000 Alumni who involve pined for positions both in India and abroad and are a wellspring of pride and motivation to us. Being an innovator in the industry is our shared objective. We intend to grow existing projects and advance industry significant ventures, R and D and consultancy to increase the general expectation just as to overcome any barrier between scholastics and industry necessities. With greatness in training and examination exercises, we mean to make the group noticeable universally.





## **Dr. Sukhpreet Kaur**

### **Professor And Head, Department of CSE**

Serving as the Head of the Computer Science & Engineering Department, Dr. Sukhpreet kaur is a young, innovative and diligent academician. She stands strong with a PhD. in the sphere of Digital Image Processing coupled with fifteen years of teaching experience. Along with performing her duties as a HOD, She is also fully committed to teaching. Being such an active part of academia, She keeps pace with research and development also.

With each passing year, CSE gets to evolve manifolds. Our expertise and competence have been strengthened with every stride made. Aiming at providing the best to the students, we regularly update our curriculum in association with IKGPTU, Jalandhar. We believe that the present time demands more practical knowledge than theoretical. Adhering to the minute's demands, we provide training, seminars, workshops, guest lecturers as well as special sessions on exclusive areas.

Besides the aforementioned objectives, our PG and UG programs assist the students to become fluent in communication, problem-solving and leading the teams so that they become competent in working on eminent positions. Placements and industrial exposures support each other and believing so, we incessantly arrange industrial training & visits. The more the students know about the working of the industry, the better they'll become.

At CEC, teachers and faculty have always lifted working spirits, and have planned to do the same in the future too. Fortunately, we have bagged many positions and titles countrywide. Giving testimony to our legacy, we have accomplishments such as being the only Private institute getting accreditation for five consecutive years by NBA!

Students-who have put equal efforts-have always been cooperative. They have always participated actively. Without a trace of doubt, our teachers have painstakingly helped us reach heights. Our teachers, too, are highly intelligent as they include National and International awardees. The consortium of students and teachers has maintained an active research group that carries out collaborative and interdisciplinary research.

All in all, CSE acts as a harbour of excellence. The more we thrive, the stronger we become.



### **Editor's Quill**

The college magazine is in your hands. It is a mirror that reflects the multifarious activities of the college. I'm exceptionally appreciative to all members of the editorial team, HODs, all my colleagues, students and the college management for their staggering support and collaboration in raising this news magazine for our readers.

The main aim of education is to evolve a national pattern that inculcates a sense of discipline, patriotism, hard work and punctuality. The young minds in our college are trained properly so as to look upon life as a magnificent opportunity for the attainment of perfection. Our students should realize that the teachers work hard in the classes for all- round development of their students. Students are the future citizens of our country and at CEC they are imparted training in India's best tradition and culture. I also want to advice the students to develop a rational and scientific outlook in life so as to bring about a social change. I want to impress upon our dear students that success in life is attained by determination. Success entirely depends upon systematic work, adequate preparation and patience. I wish the students all the best in life.

Once again, through this magazine I would like to convey my thanks to all for their unstinted cooperation.

**Inderjot Kaur**

**Editor**

## **RANKING & AWARDS 2020**

### **1. NIRF Ranking 2020**

1. Chandigarh Engineering College is placed in Rank based of 201-250.
2. Position with only private institutes in Punjab : 1<sup>st</sup> Rank

#### **In Punjab**

1. Position including all institutes and universities (Government +Private): 9<sup>th</sup> Rank
2. Position with only institutes (Government +Private): 3<sup>rd</sup> Rank
3. Position with only private universities & institutes: 5<sup>th</sup> Rank
4. Position with only private institutes: 1<sup>st</sup> Rank

#### **North India: (Punjab, Chandigarh, Delhi, Haryana, Himachal, Jammu and Kashmir, Rajasthan, Uttar Pradesh, Uttrakhand)**

1. Position including all institutes and universities (Government +Private): 48<sup>th</sup> Rank
2. Position with only institutes (Government + Private): 17<sup>th</sup> Rank
3. Position with only private universities & institutes: 17<sup>th</sup> Rank
4. Position with only private institutes: 2<sup>nd</sup> Rank

### **2. THE WEEK-Hansa Research Survey 2020**

- 9<sup>th</sup> in Private Engineering colleges North Zone
- 53<sup>rd</sup> Rank in Private colleges across the country
- 82<sup>nd</sup> Rank in Engineering Colleges all over India
- 3<sup>rd</sup> in state of Punjab
- 1<sup>st</sup> in state of Punjab (If considered only Colleges not Universities)

### **3. Outlook survey report**

- 67<sup>th</sup> among top 110 private institutes in India
- 4<sup>th</sup> among private institute among Punjab including (University institutes)
- 1<sup>st</sup> among private colleges in Punjab (excluding university's institutes)

### **4. Survey conducted by India Today in association with MDRA), 2020**

- 19<sup>th</sup> Rank in Private Institutes and Universities in North India
- 3<sup>rd</sup> Rank in Private Colleges in Punjab
- 6<sup>th</sup> Rank in Private Colleges and Universities in Punjab
- 85<sup>th</sup> Rank across country (Overall India)

### **5. Dataquest Tech School survey, 2020**

- 3<sup>rd</sup> In Punjab in Top 100 T-Schools (Overall) – Government and Private
- 2<sup>nd</sup> in Punjab in Top T-Schools (Private)
- 49<sup>th</sup> rank in Top T-Schools (Private)
- 60<sup>th</sup> rank in Top 100 T-Schools (Overall) – Government and Private

## **Dr Parveen Singla of ECE department received National Innovative Educator Award 2020**

Where our students never fail to surprise us with their achievements, our faculty is no different! Their outstanding contributions for the college and students are abundant and thus, our faculty member Dr. Parveen Singla, Professor in Electronics and Communication Department of Chandigarh Engineering College, Landran has been conferred with National Innovative Educator Award 2020 for his contribution in organizing innovative events for the students.

Institute of Organized Research (I2OR) is an International Institute for Research and Development that confers these awards to promote various domains related to Education and Research around the globe to make it easily accessible to the persons who exhibit exceptional performance in the respective award categories.



## **Dr. Priyanka Kaushal conferred with "Best Researcher Award"**

Dr. Priyanka Kaushal (Faculty in Mathematics), Applied Sciences Department received "Best Researcher Award" in Mathematics during Universal Innovators Leadership Awards (UILA -2021) in the category of 2<sup>nd</sup> UILA-2021 award. The UILA Awards was organized at Shaheed Sukhdev College of Business Studies, New Delhi, India in association with National Institute of Technology Patna and University of Valladolid, Spain.



**2ND UNIVERSAL INOVATOR LEADERSHIP AWARDS(UILA 2021)**  
 in association with  
**International Conference on Innovative Computing & Communication**  
**20th February, 2021**

**"BEST RESEARCHER AWARD" IN MATHEMATICS**

**Dr. Priyanka Kaushal**  
 Associate Professor  
 Applied Sciences  
 department  
 Chandigarh  
 Engineering College,  
 Landran  
 (Mohali), Punjab.

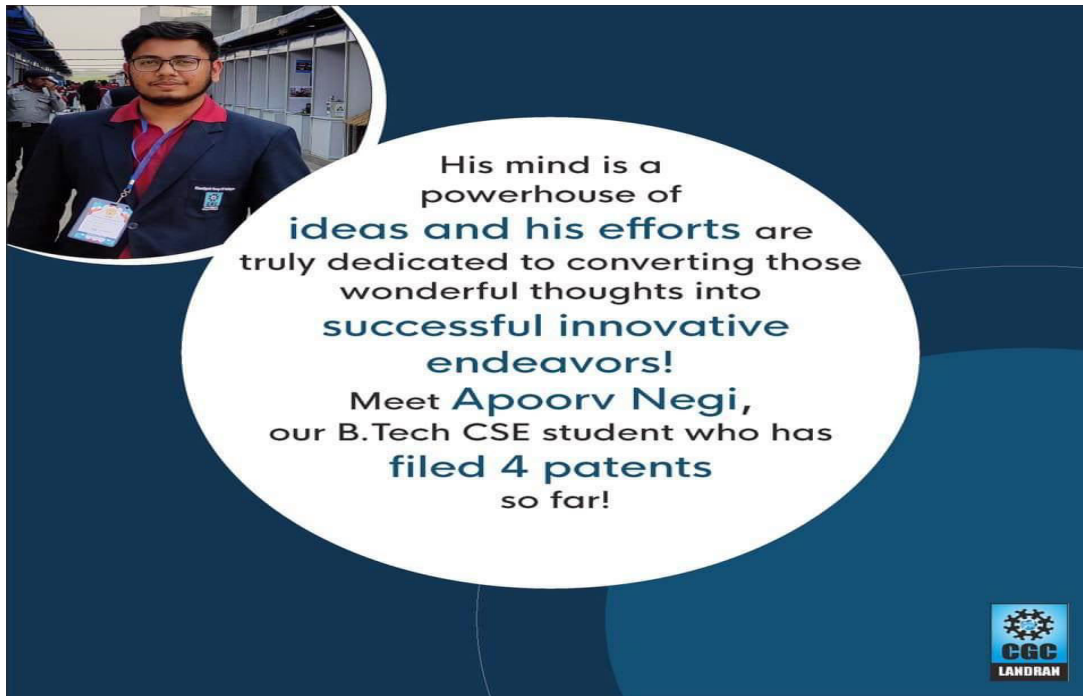



## **B.Tech Computer Science student filed four patents**

The enthusiasm to change a thought into a striking development is the thing that makes an individual unique in relation to the others. At CGC Landran, students are spurred to channelize their contemplations into efficiency and that is the means by which they effectively think of amazing consequences of innovativeness. Apoorva Negi of CSE department has filed 4 patents with his astounding knowledge and difficult work. The list is given below:

- IoT Enabled Temperature and Humidity Reporting System
- Live Emotion Recognition-based Feedback Report Creation Software
- SuperVision: Pedestrian Detection and Automatic Braking System for ABS Vehicles
- Hand-Held, Battery Operated Optical Character Reader with Built-In Controller Module for Thermal Printing Assistance





## IEEE YESIST12 Competition on Innovation Challenge

Innovation Challenge was an international project competition established by the Institute of Electrical and Electronics Engineers (IEEE), Madras Section and IEEE Education Society to encourage the participants to come up with innovative ideas for the Social and Humanitarian issues. YESIST12 acts as a platform to bridge the gap between the engineers and their visionaries to contribute to society with innovations. The competition gave chance to many regions like Africa and Asia to show up their inherent potential to pave the way for the invention. 16 teams participated in the final round from different countries, including 5 teams from Chandigarh Group of Colleges. The team of students from CBSA, MBA department, Ms. Bhavna, Ms. Tanu and Ms. Riddhi (3rd semester) won 2nd prize of US\$ 250.



## Development Student Club organized Google Cloud Program

Development Student Club of CGC in collaboration with Google Cloud Program organized Cloud Engineering Track from 03.10.2020 to 05.11.2020 at Chandigarh Engineering College, Landran. Ms. Aanchal of CSE department completed Cloud Engineering Track in 30 Days of Google Cloud Program for which she received certificate and Google Schwags (goodies).



## Expert talk on “Artificial Intelligence using Design Thinking”

The Institutional & Industry Interface cell of Electronics & Communication Engineering Department of Chandigarh Engineering College, Landran organized an expert talk on Artificial Intelligence using Design Thinking by All Soft Solutions Private limited, a training partner of IBM on 06.11.2020 virtually via webex mode for the students of 5<sup>th</sup> Semester. The talk gave a major openness to all the students about the venture on which IBM is working presently utilizing the design thinking. The Lecture was given by Er. IshaanVaid of All soft solutions private limited, a business partner of IBM on the topic Artificial Intelligence using design thinking. The speaker clarified how MOOC, really expounds on actualizing AI applications, and its value taking, as a career. The total work process and how to actualize configuration thinking on AI projects were examined and shown by the speaker. The utilization of design thinking by sympathizing with the client, by creating numerous thoughts in meetings to generate new ideas, prototyping, and afterward testing those thoughts were discussed about in the talk. Further the discussion on main phases of the process i.e. Empathize, define, ideate, prototype and testing were explained in detail. The address covered the work process introduced by IBM for AI projects in advances like Data collection, exploratory analysis, Transformation & Modeling, testing mode and what are the prerequisites for all of them. The Students had the option to know Basic and advance information on Artificial Intelligence using design thinking.

The screenshot displays a Zoom meeting interface. The main window shows a presentation slide titled "Artificial Intelligence" with a blue header and a blue robot icon. The slide content includes a definition of AI: "AI gives ability to the machines to sensibly think for themselves without the help of humans. AI is demonstrated when a task, formerly performed by human beings and thought of as requiring the ability to learn, ask, reason and solve problems, can now be done by a machine alone." It also states: "AI integrated into our everyday lives with personal assistants like Siri, Alexa and Google AI Assistant are all popular applications we use to conduct everyday tasks of our lives. With the evolution of AI, the demand for engineers and computer scientists is high now market". Below the text is a diagram showing a flow from "Mobile Development" to "Web Application", "Mobile application", "Cloud Application", "IoT", "Security", and "Blockchain". Each stage has associated technologies listed: Mobile Development (Mobile application, Web application), Web Application (Mobile application, Web application, Cloud Computing), Mobile application (Mobile application, Web application, Cloud Computing), Cloud Application (Mobile application, Web application, Cloud Computing, Embedded Analytics), IoT (Data Applications, Transactions), Security (Data Applications, Transactions), and Blockchain (Data Applications, Transactions). The bottom of the slide mentions "IBM Career Education" and "Innovative Business Network Connect".

On the right side of the Zoom window, a "Participants (10)" list is visible, including names like Parna Sharma, Pankaj Sharma, Pooja Sharma, Rajul Gidde, Raja Kishorendra Raj, Ranjendra Kumar, Rishi, Rishabh, Rishi Saini, Ritika Sharma, Rounak Singh, Sachin Kumar, and Vidhan Thakur. At the bottom of the Zoom window, the host "ISHAN VAID (host)" is visible in a video feed, along with controls for mute, video, chat, and a red 'X' button.

## Slogan Writing Competition

A “Slogan Writing Competition” was organized on the occasion of World AIDS Day on 1<sup>st</sup>December, 2020 to build awareness about this fatal disease. This competition provided a platform to showcase their creative side towards a social cause. 63 slogans were received which showed students enthusiasm.

Winners of the competition were:

**Ms.Palpreet Kaur 1st position**

**Ms.AnshikaSaxena 2nd position**

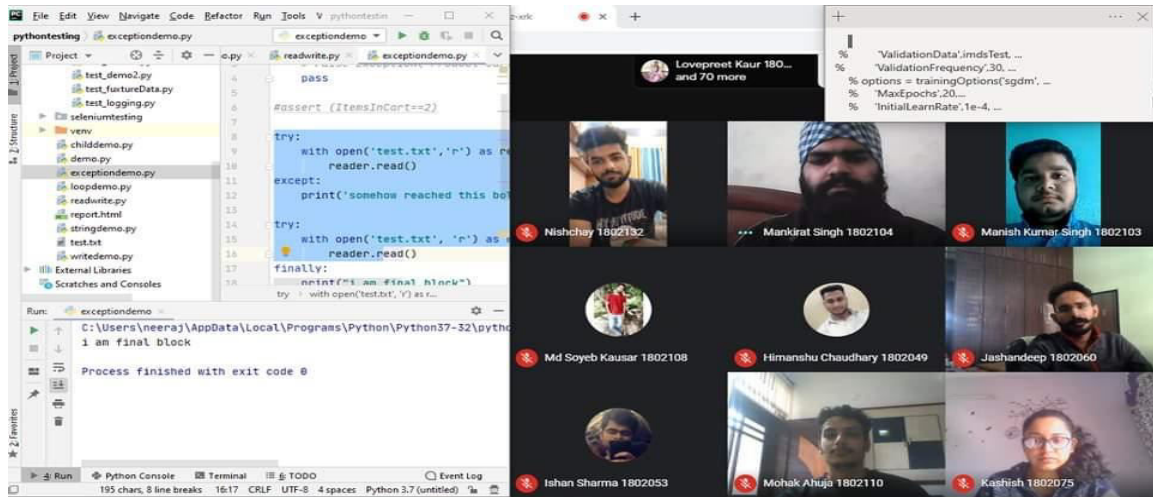
**Ms.Dhriti 3rd position**



## Workshop on Python Programming

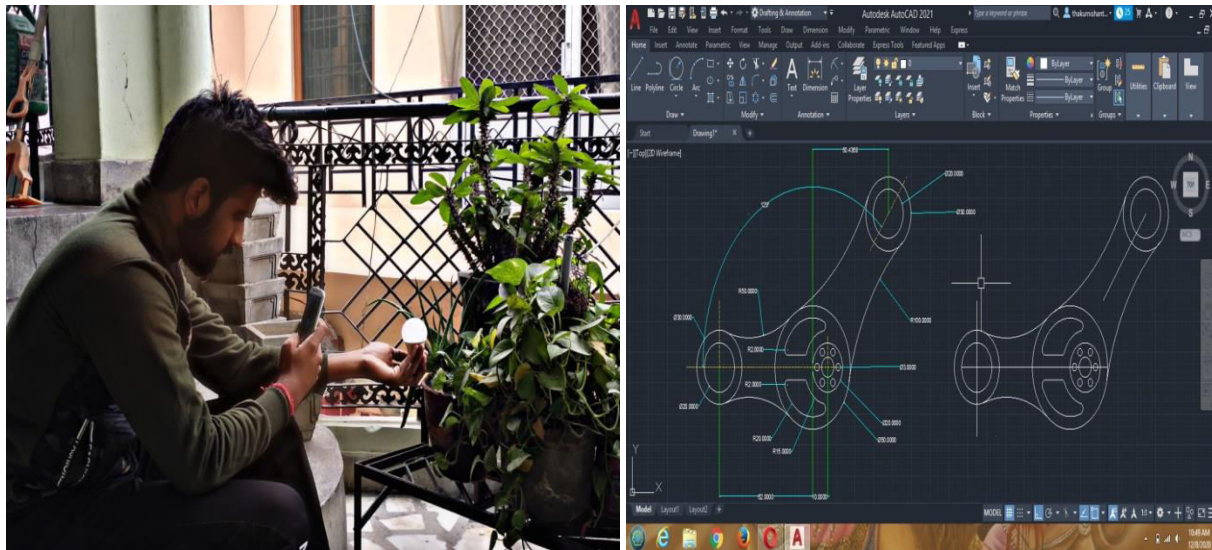
Computer Science Department organized Workshop on Python Programming on 2<sup>nd</sup> December, 2020. Mr. Farman, a Python Developer having an experience of six years as a Software Developer and Trainer started the session giving a brief knowledge about Python technology covering topics like Libraries in python and Basic programming skills. More than 400 students attended the discussion with full enthusiasm. The session was conducted for the students of the 5th semester and it was very captivating session. Students got active involvement in the workshop and they additionally found out about the most recent advancements in Python programming.





## Tech TRIO 2k20

TechTRIO 2k20...instilling love for Technology was organized by Mechnorobs Club of Mechanical Engineering Department of CEC, Landran on 08<sup>th</sup>December 2020. It gave a splendid platform to the students to exhibit their talent and explore their potential by participating in technical and non-technical events. The event commenced on a happy note at 9:00 am and the students enthusiastically participated in the event. All the participants were awarded e-certificates as a motivating factor to add credits to their skills and knowledge.





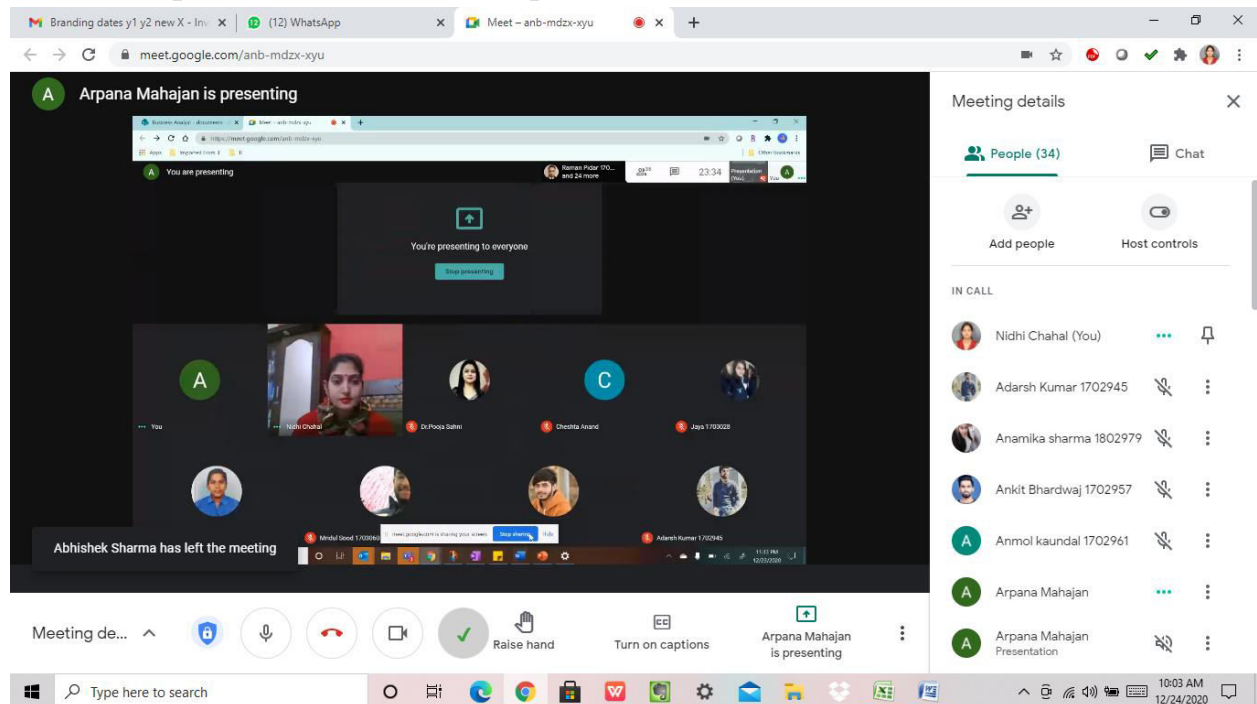
## Seminar on “Food Vybe Technology”

Electronics and Communication Department organized a seminar on “Food Vybe technology on 24<sup>th</sup> December 2020. Ms. Arpana Mahajan, CEO “Food Vybe” conducted a seminar (online) for 7<sup>th</sup> semester students to make them aware about food technology, restaurant dealing tools and internship opportunities.

The Seminar covered the following topics:

- Food Vybe Technology
- Internship Opportunity
- Mentoring Guidance
- Career Guidance
- On-Job training, Hands on

Around 40 students partook in the seminar. Students likewise associated with the featured expert and raised various questions.



## Our Alumni Our Pride

Peer motivation is one of the most effective ways to encourage students. The accomplishments of the peers help students to set their goals and work diligently to achieve them. CSE department organized Peer Mentoring Session wherein our B.Tech CSE Alumnus interacted with the engineering students on various aspects of his own college and professional life, shared tips to excel at placement drives and inspired them to work hard for their dreams.

**Encouraging Alumni-Student  
Engagement to Promote  
Professional Development!**

Peer Mentoring Session

Talk delivered by:

**Vishal Singh**

B.Tech CSE

Batch: 2014-2018

Working with Amazon WebServices



An Initiative  
by CRC  
Department



## Best Teacher Awards



Dr. Priyanka Kaushal



Dr. Pooja Singhal



Dr. Mohit Srivastava



Ms. Ripple Sahni



Ms. Lofty Sahi



Mr. Harjot Singh

### **Dr. Priyanka Kaushal delivered an Invited Talk on “Machine Learning Aspects for Beginners”**

Rajkiya Engineering College, Mainpuri, U.P. organized one week online Faculty Development Program on “Institutional Enrichment vis-à-vis skill development” to give an openness to novel thoughts and advancement in Institutional enhancement and expertise. The speakers of the FDP were from IITs, NITs and regarded establishments. Dr. Priyanka Kaushal, Faculty in Mathematics, conveyed an Invited Talk as Speaker in this online Faculty Development Program at Rajkiya Engineering College, Mainpuri (UP).



## CYBERWAR

What is a cyber war? Cyber war is a kind of war which is done usually in terms of microprocessors, telecommunications and even more importantly software algorithms both in the offence and as well as in defence roles. Its conflict zone or we can say area is usually not confined to any territorial area, as it is a part of technological involvement so its arena is totally based on virtual reality. Technology has grown at a much faster rate in the past two-three decades that we can be the new slaves in the new world order if we ignore it. It has revolutionized the world; it has brought the information battle into action the small and the big fights into picture through virtual reality engines at whichever rank it was required.

Now the time is such that a country would never fight a war where two armies need to come on a battlefield, instead war would be fought through cyberspace, computer bugs, viruses designed to paralyze enemy in order to bring him to his knees without firing a shot.

There are many accompanying revolutions which have increased the status of the technological world like the Micro-Electronic Mechanical Systems (MEMS), Unmanned Aerial Vehicles (UAV's), microprocessors, miniaturized trans receivers, the GPS's and many more. The process has still some distance to go and also the pitfalls must be avoided. The only way to protect the world from increasing technological impact is the coordination that could be managed between the human intelligence and growth of technology.

**--Saieesh Revoo(ECE-A1)**

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Transforming Lives.*



**CHANDIGARH  
GROUP OF COLLEGES**

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**Campus: Landran, Mohali, Sector 112, Landran Greater Mohali, Punjab-140307 (INDIA)**

**Admissions Helpline: +91-95921-04444, +91-95921-14444, +91-95921-24444**

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