



**CHANDIGARH  
GROUP OF COLLEGES**

Building Careers. **Transforming Lives.**

## The Communique

Newsmagazine | Volume-15

*An Institution of Excellence*



## VISION

*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

- 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.*

## EDITORIAL TEAM

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**Tarun Gautam : Student Graphic Designer (Applied Sciences-CSE)**

## NATIONAL SCIENCE DAY 2020 CELEBRATED

The Department of Applied Sciences, Chandigarh Engineering College celebrated National Science Day on 28th of February, 2020 to mark the discovery of the 'Raman Effect' by Indian physicist CV Raman.

Dr. Rajesh Kumari, Scientist G., TBRL, DRDO was invited to be the Chief Guest and Dr. Suman Singh, Principal Scientist CSIO was the Guest of Honor. Prof. Mark R Noll from the US was also invited as a special guest on this occasion.

A variety of both technical and non-technical events were held to engage the students not only of the Chandigarh Group of Colleges but also the students who had come from other reputed colleges of the northern region. The students displayed their innovative scientific models in the fields of Biotechnology, Chemistry, Computer Applications, I.T, Electrical Engineering and Electronics, Life Sciences, Mathematics, Mechanical Engineering, Pharmacy and Physics. The dignitaries and judges who were taken around the gallery of projects greatly appreciated the novel ideas and scientific temper of the students. Events like poster-making, declamation, science quiz competitions were also held. The winner students were awarded cash prizes along-with certificates and trophies.

An array of cultural activities which included fashion show (Fashience), Bhangra (Virsa), Skit (Science behind Superstitions), Mime (Chandrayan), Fusion of Music and Bhangra (Virsa) added further glamour to the celebrations. The program ended with a vote of thanks by Dr Lakhwinder Singh Head, Department, Applied Sciences, Chandigarh Engineering College of the Chandigarh Group of Colleges, Landran.



# DEPARTMENT EVENTS

## Entrepreneurship Awareness Camp



IEDC cell of CEC, Landran has organized an Entrepreneurship Awareness Camp (EAC) from 12-14 Feb 2020. The objective of the camp was to create awareness among S&T students to opt Entrepreneurship as a career.

The program consisted of 12 sessions of one hour each in which the students learnt how to open a new Enterprise (Business), to arrange funds and to market the product. They also got a chance to interact with an entrepreneur through an Industrial visit.

## IEDC cell organized Entrepreneurship Awareness Camp(EAC)

IEDC cell of CEC, Landran organized an Entrepreneurship Awareness Camp (EAC) from 29-31 Jan 2020 at seminar hall of Block-1. The program comprised of 12 sessions; each of one hour duration. In the program students learnt how to open a new Enterprise (Business), how to arrange funds, how to market the product and also got a chance to interact with an entrepreneur through an Industrial visit. The camp was sponsored by EDII, Gandhinagar and NSTEDB under DST-NIMAT project.



## EXPERT LECTURE ON “ELECTROMAGNETIC PROPERTIES OF MATERIALS”



The Department of Applied Sciences invited Professor Puneet Sharma from the School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala to deliver an expert lecture on the subject “Electromagnetic Properties of Materials” to the B. Tech (ME) students on 24th January, 2020. A total of 150 students of B.Tech (ME) along with their faculty attended the lecture. Dr Sharma elaborated upon the various aspects of the properties of electromagnetic materials. The students gained immense knowledge from the lecture.

# DEPARTMENT EVENTS

## Household Survey in Village Maujpur



The Unnat Bharat Abhiyan is a flagship program of the Ministry of Human Resource Development with the vision to involve professional and higher educational institutions for the transformational change in rural development. The students and staff members of Chandigarh Engineering College actively participated in the social cause. A team of 9 students from Computer Science and Engineering department conducted a door to door survey in the village Maujpur to know about the problems like unemployment, water logging and sanitation problems and

many other issues being faced by the residents. The GOI's initiative along with institutions helps to evolve appropriate solutions for accelerating sustainable growth.



## EXPERT TALK ON MACHINE LEARNING



The Department of CSE invited Dr Sarabjeet Singh from the University Institute of Engineering and Technology (UEIT), Panjab University, Chandigarh to deliver a lecture on the topic Machine Learning to the its students and faculty on 12th February 2020. Machine Learning is an application of artificial intelligence that provides systems the ability to automatically learn and improve from experience without being programmed and is used to unlock corporate and customer data in an efficient way. The lecture was followed by an interactive session with Dr Singh.

## Workshop on "NATIONAL PROGRAM ON TECHNOLOGY ENHANCED LEARNING" Held

NPTEL is an initiative by MHRD, Govt. of India which strives to enhance the quality of Engineering and Science education in the country by developing content for undergraduate and post graduate curricula using video and web based courses. The Department of Mechanical organized a workshop in association with the E-Learning center, IIT Roorkee, which was attended by over 110 faculty members from across the region.

Prof Inderdeep Singh from IIT Roorkee who was the Guest of Honor briefed the faculty members about the various aspects of technology enhanced learning which proved to be of great benefit for the faculty.



# DEPARTMENT EVENTS

## “A Roadmap for summer Internships” A Seminar Powered by INTERNSHALA



The Department of Computer Science and Engineering organised an one day seminar on “A road map for summer internships” to showcase the various benefits of internships to our students and giving them the an opportunity of integrating a career development program into an existing curriculum. The seminar was delivered by Ms. Lakshita Sejwal (CSE Deptt.) regarding skill enhancement, career development and using internships to bag their dream job. The students learned how internships can help them acquire skills like team building, communication and self-confidence, which is difficult to learn in a classroom.

The department of Computer Science and Engineering in collaboration with IIT Kanpur organised Smart Hacks 2020 to help the students boost their coding skills. The winner of the competition will be shortlisted for a full day Hackathon in IIT Kanpur. This gave the students a platform to showcase their coding skills and explore more in this field.

## SMART HACKS 2020



## TREE PLANTATION DRIVE



The entire world today is focused on restoring our natural resources and environment and with the same motto, the department of Computer Science and Engineering organized a tree plantation drive on 5th of march in a nearby village Maujpur along with the Gram Panchayat. The students-most of who were the NSS volunteers planted around 200 saplings in a single day. The local people were also made aware how plantations can help us contain the world wide problems like weather change and global warming.

## NITTTR Sponsored ICT based Short Term Course On “Research Oriented Project Work”

The Department of Information Technology organised a short term course on “Research Oriented Project Work” from 24th February to 28th February. The course was beneficial for the faculty members of all the engineering departments. The itinerary included sessions delivered by various Professors from NITTTR Chandigarh. In the 4 day long course various case studies related to Research Oriented Project Work were given to the participants which were successfully completed by the faculty members of the College.

## ACHIEVEMENTS

### DR.VINAY BHATIA & DR.PARVEEN SINGLA HONOURED WITH PRESTIGIOUS INTERNATIONAL AWARDS

Dr. Vinay Bhatia, Professor & Head Electronics & Communication and Dr. Parveen Singla, Associate Professors, Electronics & Communication, Chandigarh Engineering College received the best ESN INDIA-SL International Awards in Sri Lanka on 7th February, 2020.

Dr. Bhatia was honored with the award in the category of ‘Best Head of Department’ in appreciation and recognition of his outstanding performance in teaching, research and publications whereas Dr. Singla received the award in the category of ‘Best Technical Event organizer’ for his outstanding performance in organizing large number of technical events for the students during the year 2019-20.



## SPECIAL EVENTS

### NITTTR Sponsored Short Term Course (STC) On “Digital System Design” through ICT



ECE Department has organized a Short Term Course (STC) On “Digital System Design” through ICT Sponsored by NITTTR from 20th Jan 2020 to 24th Jan 2020 in Signal & System lab (1st floor of Block 1).

This program was intended to provide the participants a common platform to share the knowledge, experience in the areas of Digital design and VLSI. It also gave an opportunity to interact with eminent personalities working in these areas. Experts from renowned institutes like SCL, IIT Ropar, CSIO and NITTTR Chandigarh imparted knowl-

edge on topics like Memories Design, Digital Systems in IOTs, Low Power Memory Design and FSM Designing. This STC was attended by faculty of Engineering from CEC, Landran.

At the end of the program, the participants were able to understand the advanced research synthesis tools such as VHDL and their applications along with different opportunities available for further research work.

### CSE Department faculty addressed Gram Sabha at village Maujpur

A group of faculty members and students of Computer Science and Engineering visited Maujpur, a village adopted by Chandigarh Engineering College under Unnat Bharat Abhiyan mission of centre Govt. Mr. Suresh Kataria Asstt. Professor addressed the gram sabha conducted by village Panchayat. People were informed about objective of Unnat Bharat Abhiyan i.e. Rural Development.

CGC has taken responsibility to contribute in the mission of Unnat Bharat Abhiyan to work with the people of rural India in identifying development challenges and evolving suitable solutions for attaining sustainable growth. Student volunteers explained about various Centre Govt. schemes to local people so that can take advantage of these schemes effectively. People were made aware about the survey to be conducted in village by college students and faculties to understand need of village and their problems.

Information regarding professional courses like science, engineering, medical field, technology and management was provided.



## Expert Talk organized by CSE Department, Chandigarh Engineering College

### Event Objective

The department of Computer Science & Engineering, CEC organized an Expert Talk by Alumni & Industrial Expert with an objective to provide real time exposure with industrial life to the 2nd and 3rd year students.

### Expert Details

#### Expert 1:

- Name: Mr. Ashish Jalota (2006 Passout) – Alumni Talk
- Designation : MD
- Organization: ANSH Infotech, Ludhiana
- Total Experience: 14 years

#### Expert 2:

- Name: Mr. Anshu Aneja (Industrial Talk)
- Designation : CEO
- Organization: ANSH Infotech, Ludhiana
- Total Experience: 16+ years

### About profile of Expert:

1) Mr. Ashish Jalota , Batch – 2006 passout, working as a successful Entrepreneur having his own venture at Ludhiana named “Ansh Infotech” as Managing Director.

His area of interest is working with different projects and achieve new targets in his field. They also provide international certification to students like TCS, Microsoft, oracle, HP and many more as they have links with big MNCs internationally.

2) Mr Anshu Aneja working with Ansh Infotech as CEO is dealing with data science and Big Data applications and also building various projects given by MNCs.

### About the Event:

Alumni Talk for aspiring students to enlighten them about cracking the job interview in a creative manner and what challenges they have to face while joining MNCs and industry exposure. Prime objective of the expert talk is to make the students aware about the current corporate scenario and overview them about the journey from student to professional.

### The details of the event are as follows:

1. Date, time, venue of the event. : 4/3/20 at 11.00 am, Block 3, Seminar Hall.
2. Strength of Students: 96
3. Usefulness: Interaction with the CSE Students to strengthen the bond between Alma Mater and Alumni.

It was a good experience, students were able to know what kind of environment adopted by the companies. Also brief overviews of type of IT solutions provided by the company were enlightened. Experts have also shared importance of NBA at student level and how students are going to get benefits from it.

Expert Talk seems to be very informative and a good learning experience for the students. Students were well mannered and disciplined throughout the talk.

### Expert 1st Views:

He narrated that He is overwhelmed to come back to college. He shared his memories how he got campus placement in 2006 and also how he has started his journey from cooperate world to Entrepreneur.

He gave tips to students that they should sit in every campus drive and keep on grooming their skills. He talked on the topic of AWS Cloud Computing and explained to students that “out of the box thinking” is the key ingredient to success in today’s scenario. He stressed that we have to focus on innovation to be successful in different areas of professional life.

He has also demonstrated a live Prototype which they have developed for Irrigation purposes for PAU using Artificial Intelligence technique Alexa , how it works on cloud and how signals are transmitted and fetched over internet using cloud computing.

As per his review Audience was interactive and were very responsive. They have learned about the new technology trends in the IT industry.

### Expert 2nd Views:

He guide the audience about what is the today’s scenario IT organizations are opting for selecting the cream from the crowd. He also guides about that there are many misconceptions present in students mind that only those student who are good in coding can have their placements in IT Companies, there are many more fields which a student can opt except from coding in an IT Company like ethical hacking, testing and many more.

He told the students about the importance of Data Science and how Big Data is in demand these days due to the advancement of technologies and how research work is going on at these scenarios.

As per her review Audience was very good and supportive and very keen to learn. They were adaptive in nature and focused towards their career goals. Moreover, students are updated with various emerging technical aspects and equipped with core fundamentals

### Event Outcome:

In this talk, the students learned about the working environment of different IT companies and various Career Opportunities in IT industry.

Industrial Visit	EVENT OUTCOMES	PO & PSO MAPPING
EO1	Provides opportunity for active/interactive learning experiences in-class as well outside the classroom environment.	PO4, PO7, PSO3
EO2	Bridge the gap between theoretical learning and practical learning in a real-life environment	PO5, PO11, PSO1
EO3	The students explored about the working environment and various Career Opportunities in IT industry	PO8,PO9, PO10,PO12, PSO3

### Scope of Improvement:

Scope of improvement is that hands on experience should also be provided.

# INDUSTRIAL EVENTS

## Industrial Visit to Infosys Technologies Limited

Department of Information Technology, under the guidance of Dr. Shashi Bhushan, Head of Department and Campus Connect coordinator Ms. Heena Wadhwa, along with Ms. Astha Gupta and Ms. Sharanjit Kaur organized Industrial visit to Infosys campus IT Park, Chandigarh for the 6th sem students on 30.01.2020.

The objective behind the visit was to make students well versed with the corporate work culture and the latest technology trends that companies are working upon these days. Mr. Atul Jain (Head, Learning experience team, Infosys) and Mr. Snehil addressed the students, interacted with them and introduced the term "Big Data". He also introduced the students about the term BI (Business Intelligence) and explained the working of the Power BI tool with hands-on experience. The concept of virtual storage (cloud) was also very well explained along with the whole process of storage of data. At the end of the session few questions were put up in front of the students to analyze that up to what extent they have gained the information. After a technical session, students were taken to Infosys campus where they visited every section of and got familiarized with the real type of working process and atmosphere.



## Industrial visit to Shri Bala ji Iron and Steel Industries

The Department of Applied Sciences organised an industrial visit to the Balaji Iron and Steel for the first year ME students on 25th January, 2020. Balaji is one of the leading industries in the field of hot rolling iron and manufacturing of steel products. The students were exposed to the various shop floor manufacturing processes and also learnt about the hazards at such a work place and safety measures required for the workers.



## INDUSTRIAL VISIT TO CHEEMA BOILERS



Overcoming the inertia to use theoretical knowledge for practical applications is most important and for the same an industrial visit was organised for the students of Applied Sciences to Cheema Boilers, one of the leading industries in field boilers manufacturing. An informative session was conducted to explain the functioning of the company by its managers. Thereafter students visited the whole plant and learnt about the working in depth. The students experienced the realities of the shop floor, which in itself was a rare exposure.

# INDUSTRIAL EVENTS

## An Industrial visit to “Wonder System India Pvt. Ltd.”, Mohali

The Department of Electronics and Communication Engineering, under the coordination of Dr. Deepak Dadwal and Ms. Shalini Sharma, organised an industrial visit to an internationally acclaimed organisation named Wonder System India Pvt. Ltd. , Mohali on 25th January, 2020 for the students with an aim to give greater clarity about important management concepts, as students practically experience how these concepts are put into action. This industrial visit helped to provide maximum technical exposure to the students about various training programmes like Industrial automation, PLCs and SCADA etc.. and equipments. The staff of the company was very cooperative and students learned about the practical challenges that organisations face in the business world.



## Industrial Visit to Amber Power Solutions, Mohali

As a part of academic curriculum, the Department of Applied Sciences of the Chandigarh Engineering College organized an industrial visit for the students of IT-B to Amber Power Solutions, Mohali on 18th January,2020. Amber Power Solutions is a leading supplier of online UPS systems in the north region.

The main objective of the visit was to provide an insight to the students about the technological work environment of an IT based industry. The students were apprised about the development solutions related to online live projects and latest coding technologies like Angular and Databases followed by an interactive session on various issues. The visit proved to be a great learning experience for the students.



## Industrial Visit to Oceana Tech, Mohali



Applied Science Department of Chandigarh Engineering College had organized an Industrial Visit to Oceana Tech, Phase 8A, Mohali on 29th February 2020 for B.Tech 1st semester Information Technology students of section A. This Industrial visit laid an emphasis on importance of software development in today's engineering world.



# SPORTS



## APPLIED SCIENCES DEPARTMENT OF CEC LIFTS THE OVERALL TROPHY IN CGC ANNUAL ATHLETIC MEET

The 15th CGC Annual Athletic Meet comprising of events like races & relay races for men and women, shot put, discus throw, long jump, triple jump and javelin throw showed a very enthusiastic participation by the students as well as by the faculty of various colleges under CGC. Mr Prabhjot Singh a sports person of Olympic Games and Mr Amyjot Singh an international player were invited to be the Chief Guest and Guest of Honour respectively. Mr Rashpal Singh Dhaliwal Honourable President CGC graced the occasion with his esteemed presence.

The athletic event was held in a great spirit of competition among the participants from all the colleges under CGC. The students and faculty of the Department of Applied Sciences, CEC dominated the event by winning a spree of medals which included 5 Gold, 9 Silver and 4 Bronze medals in various events thereby paving its way to win the overall trophy of the Annual Athletic Meet.



The list of the medal winners from the Department of Applied Sciences is as given below –

### STUDENT CATEGORY

#### GOLD MEDAL WINNERS

Mohammad Karim Siddiqi  
Mohammad Juned  
Vivek Banerjee  
Meenakshi Devi

#### SILVER MEDAL WINNERS

Deepika Nepta,  
Meenakshi Devi,  
Vivek Banerjee  
Supradeep Nayak  
Aditya Parmar  
Pannu Sharma (ECE)

#### BRONZE MEDAL WINNERS

Mohammad Karim Siddiqi, Lovepreet



### FACULTY CATEGORY

#### GOLD MEDAL WINNERS

JEEWAN SINGH, Tug of War team comprising of Krishan Kant, Jasbir Singh, Kamaljit Singh, Dr Karanbir Singh, Dr Pardeep, Dr.Sandeep Khatkar, Ashok, Balinder, Sukhdeep Singh and Ravinder Singh

#### SILVER MEDAL WINNERS

Priyanka Gudwani, Disha

#### BRONZE MEDAL WINNERS

Amit Saini

# AN ONLINE ACTIVITIES REPORT

## EXCELSIOR CLUB ENGAGES STUDENTS ONLINE FOR CONDUCTING EXTRACURRICULAR ACTIVITIES AMID COVID 19 LOCKDOWN

Although the Covid-19 pandemic disrupted the regular education scenario all over the country, the Excelsior Club of the Department of Applied Sciences switched on to the online mode for conducting extracurricular activities for the students from 3rd April to 14th April 2020. This was done to keep the students safe, motivated, and directed towards their goals during this critical period of the lockdown.

The Excelsior Club aims to improve the communication skills, creativity, knowledge, critical thinking and instill self-confidence besides exploring hidden talents among students. A variety of activities like essay writing, story writing, poetry writing, slogan writing, debate competition, art competition, quiz competition and creating a Tik-Tok video in line with these objectives were therefore held via various online platforms like skype, zoom, email or WhatsApp.

The enthusiastic participation by the students in all the events was highly appreciated by the college authorities.

### The Excelsior Club Applied Science Department



### Being Creative Competition

#### Drawing/Sketching



#### Poetry Competition

बड़े शब्दों की बात है  
कम केंच तेरे साथ है ॥  
सिंह लिंगी तो एक ही सिंह मिलि है  
बस क ही तेरे साथ है ॥

साथ दे , तो साथ मिले  
आरा न दे , तो कोई आरा नही ॥  
सानो तो सगवान की साथ तेरे  
सा सानो तो सगवान की कुद नही ॥

इंसान की उमरिगत ही वही कमाल है  
दिव्य , सुखमाल , शिर , रीति अब तो इंसान  
तो ये धर्म का झंडा लटका के कसो छुटते है  
जब हा अपने भारत देश ने सारे बहन की लप  
रहते हैं ॥

बड़े शब्दों की बात है  
कम केंच तेरे साथ है ॥  
सिंह लिंगी तो एक ही सिंह मिलि है  
बस क ही तेरे साथ है ॥

Applied  
Science  
Department

#### Poetry Competition

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Transforming Lives.*



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