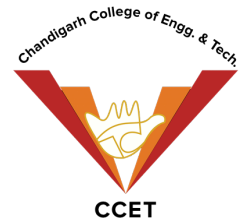


# FINERPRINT

CHANDIGARH COLLEGE OF ENGINEERING & TECHNOLOGY



## PRINCIPAL'S MESSAGE

In our everyday life and in every sphere of our life the influence of technology is becoming so pervasive, it gets indispensable to keep up with this fast changing world. The students have reiterated their efforts in extracurricular and academics activities in synchronization with the industry requirements to make sure that the students prove themselves to be skilled and adept. The perfect platform that makes a learning environment ideal is calm, well-disciplined and orderly learning environment; purposeful and stimulating teaching. We believe that hard work with discipline and proper guidance is a guarantee to excellence and we work dedicatedly to achieve the same. I commend institute publication cell for publishing the new issue of the college newsletter. I encourage not only our students but our Faculties too, to hone their skills and yearn for innovation.



Dr. M. S. Gujral  
Principal  
CCET (Degree Wing), Chandigarh

## NEWSLETTER HIGHLIGHTS

A Message from the Principal

National Service Scheme

Institution's Innovation Council

ECE Department

CIVIL Department

Mechanical Department

CSE Department

CCET ACM Student Chapter

Electoral Literacy Club

# National Service Scheme

The volunteers of the NSS, CCET (Degree Wing) organized various events. Looking at the present scenario of the pandemic, the programmes were conducted through online mode. The following events were organized during session (January-June 2021):



Celebrating 72nd Republic Day on January 26, 2021.



Jal Shakti Abhiyan on April 9, 2021



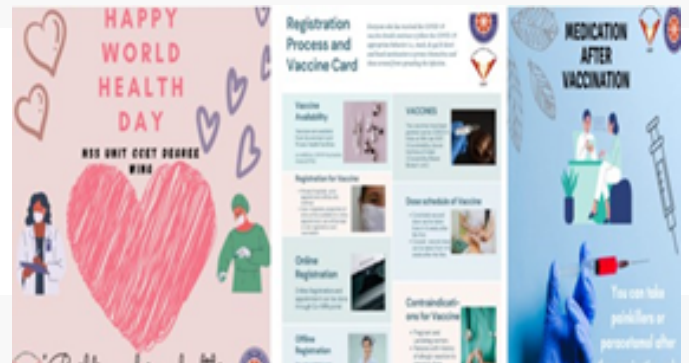
International Women's Day on March 8, 2021



Pride month celebrations on June, 2021.



Azadi Ka Amrit Mahotsav on March 12, 2021



World Health Day on April 7, 2021



Earth Day on April 22, 2021



10 Day Yoga workshop 11th - 20th May 2021.



# **Institution's Innovation Council**

Institute Innovation cell (IIC) of CCET(Degree Wing) organized several online session for students :

- 1.IIC of CCET organized the session on “Successful Start-up founders” on 6<sup>th</sup> February, 2021 for the CCET students, faculty and staff in ONLINE mode. The speaker of the session was Ayushmn Sikka, associate in private equity at Brain & Company. He is an alumnus of CCET and has pursued MBA from NMIMS Mumbai.
- 2.IIC of CCET organized the session on “How to plan for Start-up and legal & Ethical Steps” on 10<sup>th</sup> February, 2021 for the CCET students, faculty and staff in ONLINE mode. The speaker of the session was Mr. Vikas Mishra. He is a successful entrepreneur, founder of 360degree Digital Marketing Agency, Vapi, Gujarat.
- 3.IIC of CCET organized the session on “Workshop on Intellectual Property Rights and IP management for Start-ups” on 30<sup>th</sup> March, 2021 for the CCET students, faculty and staff in ONLINE mode. The speaker of the session was Er. Amardev Singh who has 11 plus years’ experience in Training, Teaching and Research.
- 4.IIC of CCET organized the session on “Implementation of New Education Policy” on 30<sup>th</sup> April, 2021 for the CCET students, faculty and staff in ONLINE mode. The speaker of the session was Dr. Guduru VNSR Ratnakara Rao, Principal, Sri Vasavi Engineering College, he has been a senior member of Indian Society for Technical Education and The Institution of Engineers (India).
- 5.IIC of CCET organized the session on “Building an Innovative Product Fit for Marketing” on 21<sup>st</sup> May, 2021 for the CCET students, faculty and staff in ONLINE mode. The speaker of the session was Utkarsh Khandelwal, alumnus of CCET and founder of Rootworkz Learning, an ed-tech start-up focused in providing SaaS based learning management platform to education institutions.
- 6.IIC of CCET organized the session on “Role of Intellectual Property Rights” on 14<sup>th</sup> July, 2021 for the CCET students, faculty and staff in ONLINE mode. The speaker of the session was Dr. Dinesh Sharma, Innovation Ambassador (IIC Cell).
- 7.IIC of CCET organized the session on “Accelerators/ Incubation-Opportunities for Students and Faculties - Early-Stage Entrepreneurs” on 19<sup>th</sup> June, 2021 for the CCET students, faculty and staff in ONLINE mode. The speaker of the session was Gaurav Kumar, Founder Director and Promoter of Magma Research and Consultancy Services, Ambala.
- 8.Students attended the session on “Why IP is important in academia?” by MoE's Innovation Cell on April 26, 2021 from 03:00 PM to 04:00 PM broadcasted on YOUTUBE. The speaker of the session was Dr. Abhay Jere, Chief Innovation Officer, MoE’s Innovation Cell and Dr. Mohit Gambhir, Innovation Director, MoE’s Innovation Cell.
- 9.IIC CCET organised a webinar on “Lean Start-up & Minimum Viable Product/Business”- Boot Camp/ Mentoring Session” on June 19, 2021 from 12:30 PM to 2:30 PM. The guest speaker was Ms. Deepali Singh, the Chief Executive Officer of InternMart.com. She has extensive experience in building and fostering the growth of platform-based businesses. Started as the core team member of Naukri.com, built 99acers and Firstnaukri.com before moving onto her successful entrepreneurial journey. She also has a vast experience in Sales, Business Development, Product Development and Marketing roles including last 12 years at a senior business leadership position.
- 10.As a part of IIC program, MoE’s Innovation Cell (MIC) had organised an online leadership talk on the topic, “From your Ph.D. / Master’s Thesis to a Start- Up” was organised on 23<sup>rd</sup> April 2021 at 11:00 AM by Dr. Anand Deshpande, the founder Chairman and Managing Director of Persistent Systems which was attended by IIC CCET students.
- 11.Students of Institute Innovation Cell of CCET attended the National Webinar on Research, Innovation and Ranking on August 11, 2021 form 10.30AM to 1:30 PM broadcasted on YOUTUBE. The first panel discussion was on the topic “Ensuring Excellence and Relevance in Research”. The second panel discussion was on “Building Innovation & Entrepreneurial Ecosystem”.

# ECE DEPARTMENT

## Faculty Achievements

- Department of ECE organised a workshop on “Latest Technology Trends in Industry specifically covering Machine Learning” through Ducat for the students. The workshop was held in online mode on 24<sup>th</sup> July, 2021 from 04:00 P.M to 06:00 P.M and was coordinated by Dr. Parvinder Kaur.
- Dr Shilpa Jindal gave a webinar talk on “Innovation through Technology: Solution to Societal Needs” on May 14, 2021 at the Centre of Excellence for Research & Innovation (CERI), CT Institute of Engineering, Management & Technology under the umbrella of CT Group of Institutions, Jalandhar Punjab, India.

## Student's Achievements

Our student Guruvnayak Singh Budhwar of ECE 2<sup>th</sup> year,



- selected by the Korean Cultural Centre under their Open call as a Category A artist.
- He currently has his online exhibition “Belle du Jour” where he has shared 26 works of surreal art.
- His exhibition aims to help bring out the repressed emotions and turmoil of the pandemic era.

# CIVIL ENGINEERING DEPARTMENT

## Department Achievements

- Prof. Rajesh Kumar published a patent titled “A system of a modular automatic car parking system for a city marketplace” in the Patent Office Journal No. 10/2021 dated 05/03/2021.
- Mr. Roopesh Vashist (3<sup>th</sup> year Civil student) qualified the pre-finals of UltraTech IndiaNext Stimulus, a Pan-India digital quiz competition in March 2021.
- Several students got admission in IIT Delhi, IIT Roorkee, IIT Kanpur, IIT Bombay, and also from many abroad universities namely Texas A & M University, Purdue University for pursuing M.Tech. and M.S. Mr. Harshul Sharma has joined the Texas A & M University for pursuing the M.S. program.
- Anil Kumar published a research paper on “Scour protection around bridge pier and two-piers-in-tandem arrangement” in the ISH Journal of Hydraulic Engineering, Taylor & Francis (Scopus Indexed, IF = 1.993).

## Workshop/STC organized/Attended

- Anil Kumar chaired two sessions in the 1<sup>st</sup> International Conference on Construction Materials and Environment (ICCME2021) held at JUIT Waknaghat, HP in association with Springer during June 3-4, 2021.
- Poonam and Karuna Sharma participated and successfully completed the 5-day online FDP on the theme “Inculcating Universal Human Values in Technical Education” organized by All India Council for Technical Education (AICTE) from May 31, 2021 to June 4, 2021.
- Poonam and Anil Kumar competed in a one-month long Faculty Induction Programme organized by HP University, Shimla from 12-08-2021 to 10-09-2021.
- Arfat Ahmed attended and successfully completed 5-day FDP-SI UHV Online Workshop organized by the AICTE during 2<sup>nd</sup>- 6<sup>th</sup> August, 2021.

## Faculty Acheivements

### • Dr. Jatinder Madan

#### • Ongoing DST Chandigarh sponsored project:

An interdisciplinary DST Chandigarh sponsored project titled Design and development of an automatic modular car parking system for the city of Chandigarh is ongoing in the department of mechanical engineering (Project Investigators: Dr. Jatinder Madan, Co-PIs, Dr. Rajesh Kumar, Dr D S Saini, Dr. Sunil K Singh)

#### • Patents

- 1.Madan, Manpreet Singh, Himanshu Bisht, Yashdeep Singh, Prashant Prakash, Saganpreet, 2021. Water cleaning and unwanted waste separator apparatus. Design Application Number 341839-001, dated 03-04-2021. (Submitted)
- 2.Vivek Sharma, Jatinder Madan, 2021. A heavy duty low force stapler gun. Heavy duty low effort mechanical stapler” has been filed (Application No. 202111012066, dated 21-03-2021)
- 3.Jatinder Madan, Sunil K Singh, D S Saini, Rajesh Kumar, 2021. A system of a modular automatic car parking system for a city marketplace. (Application No.202111008572 A, Publication of the patent office, the patent office journal no. 10/2021 dated 05/03/2021)

#### • Book chapters

Singh P.P., Madan J., Singh H. (2021) Economically Sustainable Configuration Selection in Reconfigurable Manufacturing System. In: Singh H., Singh Cheema P.P., Garg P. (eds) Sustainable Development Through Engineering Innovations. Lecture Notes in Civil Engineering, vol 113. Springer, Singapore. [https://doi.org/10.1007/978-981-15-9554-7\\_40](https://doi.org/10.1007/978-981-15-9554-7_40)

#### • Session Chair

Session Chair, Technical Session No. 3, 2<sup>nd</sup> International Conference on Aspects of Materials Science and Engineering (ICAMSE2020), 5-6 March, 2021, University Institute of Engineering and Technology, Panjab University, Chandigarh. (March 5th 2021, 2.00 am to 3.40 pm)

#### • Expert talks delivered

- 1.CAD in 3D printing: AICTE/ISTE Sponsored Induction/Refresher Program on Advance Materials and Processes for Sustainable intelligent Manufacturing (Phase - III), Mechanical Engineering Department, DAVIET, Jalandhar, June 07-12, 2021.
- 2.CAD modelling and 3D printing: a practice based interaction with 10+2 students Government Model Senior Secondary School, Sector 19 C, Chandigarh, Feb. 14, 2021.

### • Vinod Chauhan

successfully completed 5-day online FDP on the theme “Inculcating Universal Human Values in Technical Education” organized by All India Council for Technical Education(AICTE) from 31 May, 2021 to 4 June, 2021

### • Dr. Vettivel SC

Undergone Innovation ambassador training (Advance level) conducted by MoE’s Innovation Cell and AICTE from 30<sup>th</sup> June to 30<sup>th</sup> July 2021.

## Publications

- “Influence of Nanoparticles on Thermal, Mechanical and 3D Analysis of Hybrid Bamboo/Glass Fibre-Reinforced Polymer Composites”, Transactions of the Indian Institute of Metals, Vol. 74(1), pp. 179-193 (SCI, Springer).
- “A Novel Image Processing Technique for Analyzing Wear Worn Surface Roughness and Corrosion Behavior of Sintered Mg/B 4 C Composites”, Transactions of the Indian Institute of Metals, Vol. 74(1), pp. 51-68 (SCI, Springer).
- “Optimization of tribology parameters of AZ91D magnesium alloy in dry sliding condition using response surface methodology and genetic algorithm”, Bull. Pol. Ac.: Tech 69 (1), e135835, pp. 1-8. (SCI, Polish Academy of Sciences)
- “Effect of SiO<sub>2</sub> flux on the depth of penetration, microstructure, texture and mechanical behavior of AA6063 T6 aluminum alloy using activated TIG welding”,Bull. Pol. Ac.: Tech 69 (1), e136215, pp. 1-8. (SCI, Polish Academy of Sciences).

# CSE DEPARTMENT

## Department Achievements

- Dr. Ankit Gupta and Dr. Sarabjeet Singh attended a webinar on the STC Data Analytics and Visualization using R Programming from March 22 to March 26, 2021.
- The Department of Computer Science and Engineering, CCET (Degree Wing) Chandigarh, in association with AICTE-ATAL academy, organised an online FDP on "IoT with AI" to train the faculty/research scholars from July 12 to July 16, 2021.
- Dr. Sarabjeet Singh of CSE department published 4 works in International Journals.
- Dr. Amit Chhabra of CSE department had his work published in International Conferences.
- Dr. Varun Gupta of CSE department had his work (SCI) published in international journals.

## CCET ACM STUDENT CHAPTER

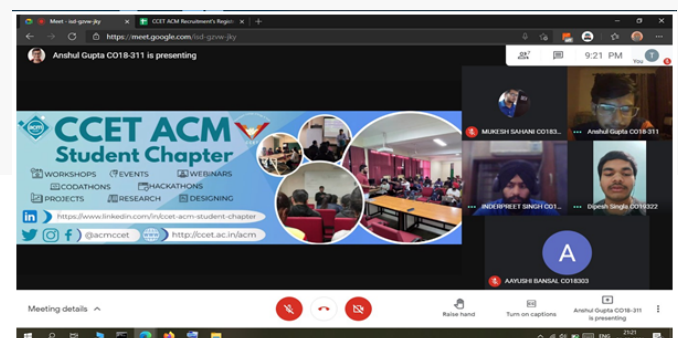
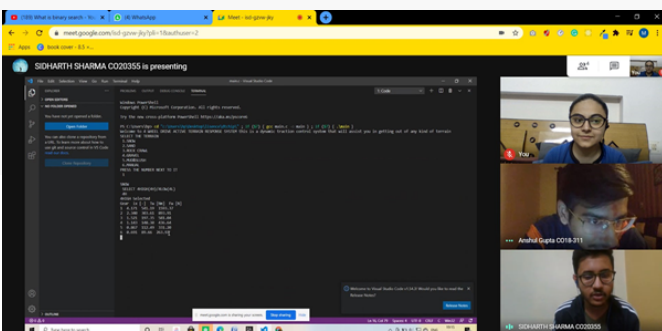
CCET ACM Student Chapter,(CASC) was established on September 18, 2015, and it will be completing its 6 years in the upcoming September. The total number of members presently stands close to 164. Over the years, CASC has been growing and involving more tech enthusiasts who share their experience and knowledge of their domain with other budding technocrats.

- **Launch of Digital Outlet, the Chapter's Magazine**

The inaugural issue of CCET ACM Student Chapter's magazine titled Digital Outlet was launched and distributed virtually that will cover information of all of ACM activities, student as well as professional articles, and competitions.



- CCET ACM Student Chapter enthusiastically conducted online recruitment for executive members and induction from March 07 - April 02, 2021. Freshmen and Sophomores were introduced to the working and goals of the CCET ACM Student Chapter.



- **Meet your mentors and Launch of Newly Deployed Website, hosted by Anshul Gupta**

The young minds of the CCET ACM Student Chapter organized a tech meetup in April to inspire and encourage individuals to come and utilize the key benefits of the ACM global platform. This event was a great medium for all the participants to interact with the faculty mentors, top industry leaders, and the existing and outgoing student teams of the CCET ACM Student Chapter.

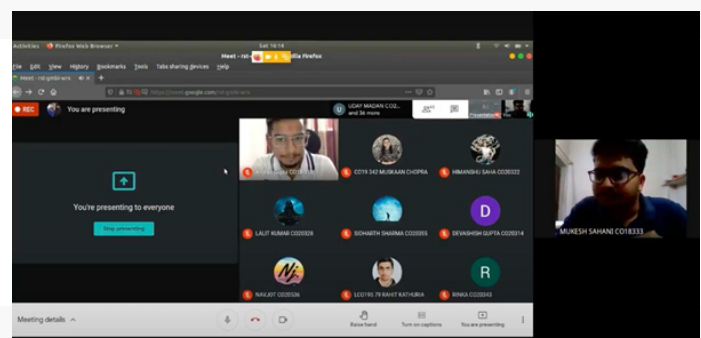
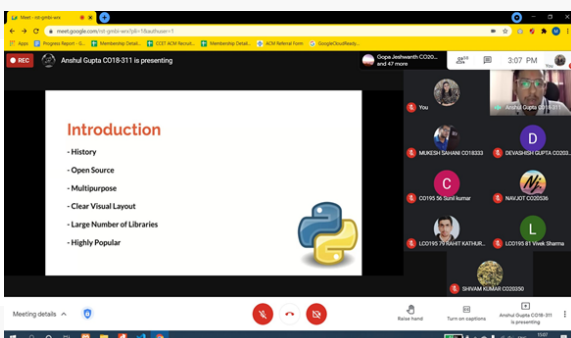




- Logo Designing in Adobe Illustrator was hosted by Maninder Singh(CO18332) and Muskaan Chopra(CO19342) on April 18, 2021 to understand the importance of logo designing in present times besides focusing on the real-time workspace and tools in Adobe Illustrator.
- Virtual Meet 2021 was conducted by CASC Team on Apr 18, 2021 to focus on the workings and duties of the members.
- For a new visual identity that will better identify the Chapter, CCET ACM Student Chapter organized a logo design competition. The new logo so judged by industry experts will be used on the CASC website or any other activities the Chapter is involved in. The purpose of this contest was to design a logo that reflects the values of CASC. The winning contestant received: Winner Certificate and An ACM t-shirt. The Runner-up contestant received the Runner-up Certificate and An ACM Pen. 22 students participated in the competition out of which the following prevailed;

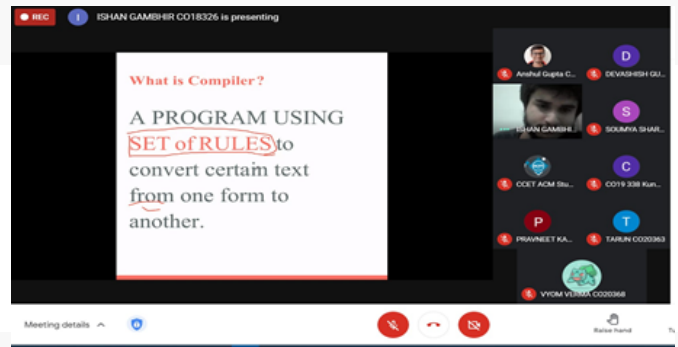
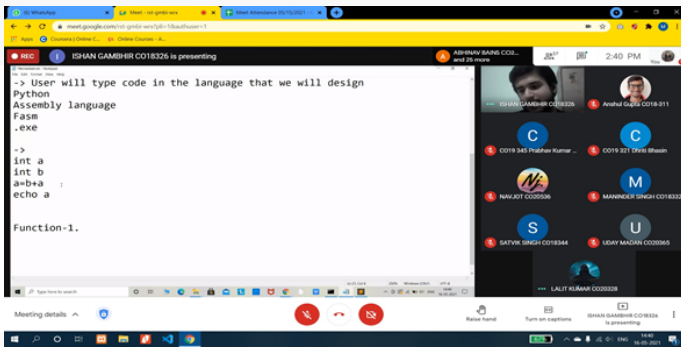


- CCET ACM Student Chapter organized a session and a hands-on for "Python Fundamentals" on April 24, 2021 in which the participants were to be guided towards the fundamentals of Python Programming including the advanced concepts that are necessary for Project Development.





- ACM hosted a two-day webinar on 'Making a Programming Language' from May 15 to May 16, 2021.



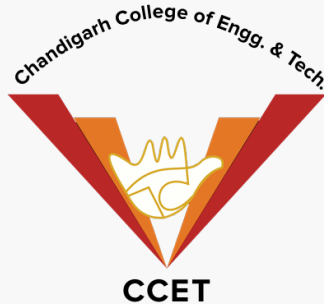
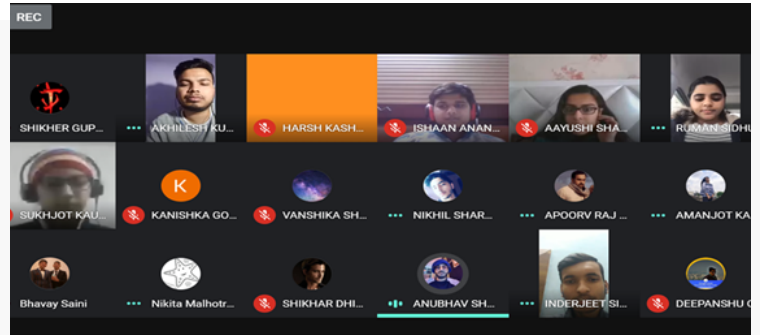
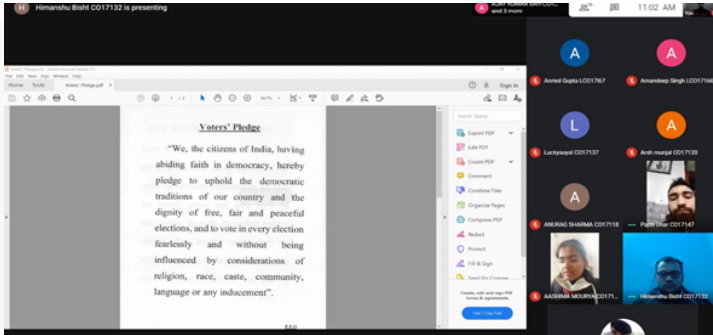
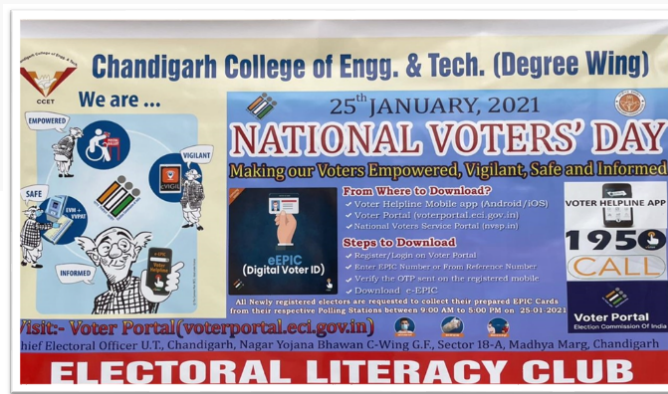
- The current ACM team led by Anshul Gupta(CO18311) has delivered excellent achievements with their researches being accepted in national and international journals and conferences.

## ELECTORAL LITERACY CLUB

The Electoral Literacy Club (ELC) of CCET (Degree Wing), Sector 26, Chandigarh celebrated the National Voter's day on 25.01.2021. This celebration meet took place in our college premises (In front of B - Block). The faculty, staff and ELC members participated in the event. The students who could not able to take part through offline have participated through online mode. The sole motive of taking pledge helped to revive the values and importance of voting in everyone's mind and register the newly eligible students in the electoral roll. The event has been arranged by Dr. S.C. Vettivel, Nodal Officer, ELC, CCET (Degree Wing), Sector 26, Chandigarh.







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Principal : Dr. M. S. Gujral  
 Published by : Institute Publication Cell  
 Incharge : Dr. Varun Gupta  
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