



**CHANDIGARH  
ENGINEERING COLLEGE**

Building Careers. Transforming Lives.

# The COMMUNIQUE 3RD ISSUE



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# Content

06 ECE & ME

10 Editorial

22 Gallery

16 Success Stories

Unsung Heroes 28

04 CEC in Limelight

08 HR Placement Tips

18 Best Teacher Awards

24 Sports News

Applied Sciences 20

30 Recognized Publications by Faculty

26 THE TEAM

31 CEC Rankings

14 CSE & IT

# CEC

Recaptures **SIIP**  
Award 2016

SIIP Award is an initiative of SEED (Society for Educational and Entrepreneurship Development) meant to recognize the contribution made by an institute in bridging gaps between the Institutes and the Industries. CEC was selected for this prestigious award on the basis of its institutional performance and established linkages with various top industries enabling a large number of young professionals coming out of CEC to fit directly into the systems of the industry.

Dr. B Pattnaik, Director Principal CEC received this award on behalf of the institute at the SIIP 2016 conference held on 21st July 2016 at New Delhi. It is worth mentioning that CEC Landran was the proud recipient of the same award in 2015 as well.



# CGC

Hosts International  
Wiki Conference  
India - 2016

The International Wiki Conference India-2016 was held from 5th to 7th August at CGC. The three day conference was a joint initiative of CGC and the US based-Wikimedia Foundation. The main objective of this conference was to provide a common platform for all Wikimedians in India to meet and share their views, discuss challenges and to exchange useful information. Over 240 Wikimedia delegates from across the world participated in various technical workshops organized by Wikipedia India in association with the Internet and Society of India. Led by Wikimedia Foundation executive Director Katherine Mehar along with her team of experts from the foundation and Dr. Amit Verma Prof. & Head CSE CEC explored possibilities during the conference for the promotion of the spirit among students to contribute toward the Wikipedia Education Program. The experts also deliberated to solve the diverse linguistic problems in computing among computer users of India.



# B STARTERS

The IEDC-CEC (Innovative Entrepreneur Development Cell) jointly with CBSA organized a workshop 'B-Starters' with an aim to develop entrepreneurship skills among the young and aspiring students. The event was conducted by means of a competition which provided a platform for the students to display their highly innovative technical projects. A total of over 90 students competed brilliantly in a war of ideas. A team of eminent Judges selected the top 5 teams on the basis of the potential of their innovative ideas. Each team was awarded a cash prize of Rs. 1 lakh. This initiative of IEDC is in line with its mission to develop institutional mechanism to create entrepreneurial culture in academic institutions to foster growth of innovation and entrepreneurship among the faculty and the students.

## ETHICS AT WORKPLACE

A guest lecture on "Spirituality and Ethics in a Workplace" was organized by Institute Industry Interaction Cell (IIIC) of ECE department on 1st July, 2016 in Auditorium. The Chief Guest of the event was Dr. Maitreyee Dutta, HOD ECE, NITTTR Chandigarh. The lecture was given by Mr. Sushil Kumar Likhi, member of Christian Science Board of Lectureship. He introduced the crowd with the concept of how ideas can be converted into reality and how it can be molded into source of supply. The event was attended by 10 delegates of Christian Science Board, B.Tech Students of 6th and 7th Semester, M.Tech Students of 2nd Semester, Director, Principal and faculty members

## Automobile Workshop on "Overhauling of S.I and C.I Engines"

Mechanical Engineering Department organized a Workshop on "Overhauling of S.I and C.I Engines" in collaboration with Society of Automotive Engineers (SAE) from 23-9-2016 to 24-9-2016. Modern industrial trends such as Antilock Braking System (ABS), Common Rail Distributed Injection (CRD-I), Digital Twin Spark Ignition (DTS-I), Pollution Standard norms like EURO-1, EURO-2, EURO-3 were discussed. Mr. Aman Bhatia, outlet head Mahindra and Mahindra conducted the session for two days.

## ECE 'TATVA' – 2016 -A Spectacular Entertainment

The most awaited Techno-cultural fest of ECE Department was held from 7th to 9th September 2016. Organized by the Tech Communication Professional Society, the Fest showcased competitions among various Technical and Non-Technical events with a quirky twist along with a cultural delight for the audience.

TATVA signifies 'Aspect of Reality' with its motive to let one discover oneself and push oneself to the next level so as to formulate out of box ideas. The guests of honor for the evening included Singer Charandeep Singh, Social Activist Harman Virk and Wing Commander RS Jassal.

A Silent Act, Fashion Show on the theme 'Stop Violence Against Women, Western Dance, Singing, and Bhangra were the main attractions of the evening. Charandeep Singh enthralled the crowd with his latest hit numbers.

# TEDx CGC MOHALI

An independent TED (Technology, Entertainment, Design) conference was held on 10th July, 2016 in Chandigarh Group of Colleges with the idea to "illuminate the world". The event was organized by the 87 students from different colleges of Chandigarh and supported by the staff and administration of the CGC.

The event saw prominent people such as Alexander James, Lifestyle Coach and a Dating Expert,

Nick Bowditch, former marketing head at Facebook and Twitter for Asia-Pacific region, Harsh Bharwani, a Lifestyle Coach and Vice President of Jetking Infotrain, Raul V Rodriguez, a forensic and body language expert and many other renowned people taking part and patronizing the theme of the event, "Change could be brought through ideas and through the means of a discussion with a speaker who could provoke thoughts among the audience."

The chief guest was Dr. Swaran Singh, professor and chairperson of School of International Studies, Jawaharlal Nehru University, New Delhi

# AVTA

# HRUST

## Engineers Day Celebrated by ME Students

The Mechnorob Club of the Department of Mechanical Engineering organized the event 'Thust -2016' on 15th September 2016 to celebrate Engineers Day.

Dr. MP Poonia, Director NITTTR was invited to be the Chief Guest along with Dr. Kuldeep Singh Dhindsa, an internationally renowned academician and Scientist as the guest of honour on this occasion. A variety of Technical, Non Technical and Cultural Events were held on this occasion.



## Skill Development Programme for Laboratory Staff

The Research & Innovation Centre in association with Electronic Project Club of ECE Department organized the Skill Development Programme for Laboratory Staff from 30th August, 2016 to 03rd September, 2016. The lecture session was delivered by Dr. P.S. Mundra. The programme was organized with an aim to enhance the skills of Laboratory Staff through discussions and practical sessions on topics like Power Supply Designing Issues, Circuit Simulation using Multisim Software, Operating System, PC Hardware, Basics of Networking and DSP based concepts.



## Students of ME win Robo Soccer at IIT Delhi

In August, 2 students from Mechanical Engineering participated in Robo-Soccer event. 80 teams were participating in this event but our students perform exceptionally well and our students Caleb and Gursagar Singh (5th Sem) bagged 3rd position at IIT Delhi. This was the proud moment for all the CGCIAN'S.



## Industrial Visit by ECE Students

The Department of ECE took the students of 5th semester for an educational visit to PCL (Punjab Communication Ltd) Mohali one of the major Telecom Industries of India. PCL is a leading manufacturer and supplier of Telecommunication/ and IT equipments and solutions in India. It caters to the vast telecommunication networking and broadband needs of major companies in the country.

The main objective of this industrial visit was to expose the budding electronic engineers to the various technical processes involved in the manufacturing of various equipments. The engineers of PCL also addressed the

## Credibility

HR managers see credibility as the most important quality in a new hire. One must ensure high moral and ethical values.

## Competence

Competency is much sought for HR as well as for you. You need to be good at what you do. Tenacity is a must. It benefits you as an employee. It is the most desired skill in a candidate.

## Flexibility

Workplace is always dynamic. One must meet deadlines and aim to be achieved can change instantly. Employees need to adapt quickly to the situation without compromising on quality.

## Focus

Being focused is a very important skill. Only a focused employee is able to think through difficult situations wisely.

## Innovative

Being innovative is one skill that helps in differentiating skills for selection when choice is between two equally good candidates. Creativity and innovation will set you apart from the crowd and will help you get your dream job.

# CAREER OPTIONS

## AFTER

## CSE

There are many many options you can have, but the option you choose should be based on your:

1. **INTEREST** (try to think that will it still be interesting to work on your choice of field after 3-4 years) because at times it happens that at first glance things may seem interesting but after you get inside you start getting bored!

2. **GROWTH Opportunity** : How much you will be able to grow yourself overall and also how can you positively contribute in your choice of field.

After Graduating In Computer Science you can go for

M.Tech Degree  
MBA  
Civil Services and Other Govt. Jobs..

or work in various Top notch companies (Like Microsoft, Cisco, IBM Etc) in various Roles (whichever interests you, and some of the job title will require certain minimum experience as well)

you can work as a **PROGRAMMER** -a computer programmer designs specific programs for his/her employer to do specified tasks.

As a **Software Engineer** - Software engineers are not programmers, rather they are developers of complex solutions to a variety of important applications in almost all economic sectors.

As a **SYSTEM ANALYST** (Google it).

As a **System Tester And Debugger**.



Also apart from working in those **TYPICAL** Software companies you can work in interdisciplinary fields like in aerospace or defense industry as well - developing software to Drive the **AVIONICS**.

You can also work in **ELECTRONICS** Field Working as a Programmer for **EMBEDDED SYSTEMS**.

Actually there are many more fields (both Interdisciplinary and related to your field) like : **ARTIFICIAL INTELLIGENCE, COGNITIVE SCIENCE, COMPUTER GRAPHICS, COMPUTER NETWORKS, NEURAL NETWORKS** (This one is related to Artificial Intelligence and Robotics.), **ROBOTICS**.

Finally, i would like to say **COMPUTER SCIENCE** is a huge field and its **APPLICATIONS** Are also Very Huge, i would rather say Very Wide and varied.

It can be used in developing websites like this one - Quora and can also be applied in the field of Psychology (Just think how ; ) ).

anything you name it computer science can be applied.

It all depends on you, how you would like to use you knowledge and Creativity.

All the best.

# Editorial



**Dr. B Pattnaik**  
Director Principal  
CEC  
Editor in Chief

Dear Readers

Each quarterly issue of this Newsmagazine serves as a milestone that not only marks the growth chart of our institution but also unfolds our imagination and gives shape to our thoughts.

I am happy to note that this magazine has now truly turned into an initiative by the students which has given an opportunity to the students to unleash their wide spectrum of creative skills ranging from writing to editing and even designing the magazine. The Magazine also reflects the values and the quality of institution itself. There are many proud moments during the quarter under report. The college has added another feather in its cap by winning SIIP Award consecutively for the second time for its outstanding efforts for matching the capabilities of the students with the requirements of various reputed industries enabling them to get priority in employment. The CEC also had the distinction of hosting the prestigious Wikimedia International Conference India 2016 at CGC Campus which drew worldwide attention. It is heartening to note that the innovative projects selected during the current year by IEDC in its most competitive B Starter Program with an aim to foster entrepreneurship capabilities among the students proved to be a great success. This certainly reflects the creative talents and unconventional thoughts of the students. Besides these achievements, the college also focused on extracurricular activities by way of organizing techno cultural events and other programs for the benefit of the students.

While I appreciate the efforts of the whole editorial team for making this newsletter a student magazine, our earnest endeavor should be to make the coming up issues more useful, meaningful and interesting for the readers.

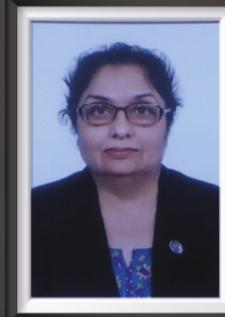
IT can potentially be used in every sector of the economy today. Its influence on our economy is being felt by every sector of growth. The talent pool of computer engineers is easing in quantitatively as well as qualitatively.

Giving a major fillip to economy in India the software industry in India is going to grow by leaps and bounds in the near future.

Average online purchases in India are expected to increase by 78% this year on the back of attractive deals .

Around 55 million consumers purchased online in 2015 and the number is expected to grow to 80 million this year with better logistics, broadband and Internet-ready devices, it said.

Not only corporate but even small business houses are today using softwares for their comfort and to bring efficiency to work. This is opening up a new growth channel for the software graduates in the country.



**Satvinder Bakshi**  
Assistant Professor  
Applied Sciences  
Editor

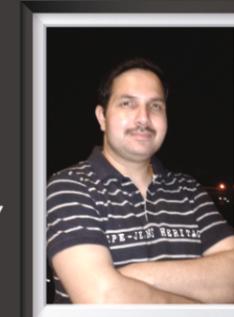
Dear Readers

The third issue of the CEC newsletter 'Communique' being released today is very special to me. Based on the concept 'By the students & For the students', the ownership of this college magazine is finally in the hands of the students themselves. This could only be made possible as the students responded positively to our efforts to secure their participation in this endeavor. A dedicated team of ten student editors has been set up to carry out various creative jobs required for bringing out this magazine like layout, designing, content writing and editing etc besides motivating fellow students to contribute towards the magazine by way of providing articles or write ups of relevance. The other more significant role to be played by this group is to explore the hidden skills and talents of students and to bring them out in open through the medium of this magazine.

The main idea behind encouraging students to play a proactive role in this exercise is to provide them with a suitable platform and an opportunity where they can work as a cohesive team with an aim to enable them to sharpen their creative skills, boost self confidence among them and further to enhance their knowledge and capabilities to meet the fast growing competitive and challenging environment not only in the field of engineering but other domains as well to fit into the requirements of big companies that recruit across the globe.

I am sure this issue of the newsmagazine will offer a fresh flavor of change and a new beginning to all future issues to be released on a quarterly basis. I am thankful to all associated with this magazine for their continued cooperation and support. For any suggestions or feedback you are most welcome.

Wishing you all a happy reading.



**Krishan Kant**  
Assistant  
Professor  
Applied Sciences  
Editor



Since the day I set foot on the CGC campus, there was something rather different in the air around. For someone coming from Mumbai, the atmosphere didn't seem alien at all. Having spent four fruitful years in this campus, I can proudly look back and say that I made the right decision in joining this college. Chandigarh Engineering College did not just help me earn my Bachelors in Technology degree, it also improved me as a human being at the end of four years. Metaphorically, the college was nothing less than a potter, working tirelessly to make a fine pot out of coarse clay. The teachers, the support staff, the management, the students, placement office, etc were just brilliant in what they did. This institution stands out from the others primarily because every tier up to the management is in a constant endeavor to improve.

The importance of placements, studies, co-curricular activities and attendance is emphasized from the first year itself. The curriculum helps students maintain a pretty decent balance between theoretical subjects and their practical aspects and each student gets his fair share of time and access to the labs. There are multiple clubs which organize different events. These events start from the class level and take you to the national and international level. Come third year, the placement office begins the Training and Placement Program which relentlessly works in fine tuning with every student for the placement process. In my opinion, this program is absolutely essential in preparing industry-ready individuals who are skilled not only technically, but are also equally competent in maneuvering through the ever changing and ever dynamic corporate culture tide. It buffers your transition from college to corporate and makes it way more comfortable. The fourth year holds a host of opportunities for students with companies visiting the campus.

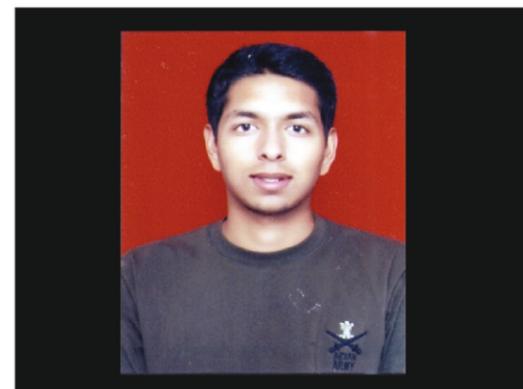
'Campus placements are important because there is a definite advantage to a fresher applying from college over a fresher applying off-campus. Taking campus placements seriously is essential if you want a job. I was placed in two companies from the campus - Panasonic and Mu Sigma. Both of these had great offers with a good salary packet and other benefits. The secret to cracking these drives is nothing; there should be a want to get a job driven by a will to work in the direction shown by the college TPP program.

From what I have realized, in the end, a lot is up to the student : how he desires to wage his way through these four years. A student in his right mind shall never favor college policies but it is up to him to take these in his stride and work towards his betterment. There is ample opportunity at every step, provided the student is willing to step out of his room and look beyond. Aspirations and Ambitions need to be driven and fueled by hard work in the right direction.

If you as a student feel the constant paucity of time, versus a workload which keeps on increasing.....You are heading in the right direction!'

## ATAMVIR Shares His Success Story

# MY SUCCESS STORY



"When you lose, you never lose the lesson"-This was once said to me by my Physics teacher in +2 class and this quote has always inspired me a lot. Failures and success go hand in hand and the time spent in college is the biggest lesson that life teaches us.

I took admission in ECE branch of Chandigarh Group of Colleges in August 2013. Stepping into college life is a big transformation in one's life. I was elected as Class Representative in the very first week of 1st semester. It was the first responsibility on my shoulders. As for every new student in college, the concept of MSTs, 75% attendance, 32 pages long answer sheet, PTU exam pattern was entirely different for me. I still remember the nervousness before my 1st semester result and I was really overwhelmed when I came to know that I got the highest percentage in it. I have always believed that actions speak louder than words. Again in 2nd semester I got 91% in PTU examination. According to me it is a myth that students who perform well in exams are bookworms. I have never been a bookworm and have really participated in a lot of extra-curricular activities. Like all other students in college, I study a few weeks before my tests and exams. The most important thing to me in these four years in CGC was CANSAT-2016. The six months spent on this international project cum competition were the most valuable six months of my degree. CANSAT not only gave me an opportunity of going to US for the first time but also inculcated leadership qualities in me and helped me to bring out my 1st patent. CGC always encourages students to think out of the box and our worthy management of CGC has always been a constant support for my team-"TEAM TRBO" in terms of guidance as well as financially. I am extremely thankful to my teachers who have always believed in me

and invested their time and energy. I was able to get placed in renowned MNC "Sapient Technologies". CGC has offered me innumerable opportunities and platforms and has transformed me into an entirely different person.

## Jashan's Success Story



A group of three students of Mechanical branch of CEC have launched an interesting series of light and comic music videos on you tube channel under the banner **Sardar Productions** popularly known as **SS Productions**.

Satinderjit Singh who is the founder of this channel had a passion in making videos right from his school days but after entering CGC he took his hobby to a higher level. Sarvjot Singh and Gurchetan Singh also joined him as Music editor and Manager respectively.

The videos became very popular after one of the videos, "A Day of a Mechanical Engineering Student" became a hit and crossed a record number of 4 lacs viewers on the you tube. The performance of these students was also applauded on the Teachers Day. The group is also in the process of developing a video on the theme "Startup India, Stand up India" on the occasion of Parivartan 2016. CEC is proud of these students and wish them success in their future endeavours.



BEST TEACHER



CGC celebrated Teachers' Day on 6th September 2016 to appreciate the outstanding performance of selected teachers from all the colleges under its group and to honor them with awards for their special contributions in the field of education. CGC celebrates this day every year with an aim to encourage and motivate the faculty to put up their best efforts for teaching their students so as to ensure a bright career for them. The brief profile of the teachers who received the Best Teacher Awards is given below.

CSE

Bharti Chhabra, M.Tech in Computer Science has over seven years of teaching experience. She is a professionally skilled teacher as reflected by nearly 100% success rate in academics for her MTech and BTech students. She is also playing the role of a coordinator for ERP related activities of the CSE department as well as for guiding the MTech students for research related projects. In addition to these duties she also handles all the SAP related communications of the college and helps in maintaining the library of the department.



ME

Farman Khan, M.Tech in Mechanical Engineering has a teaching experience of over five years and has achieved excellent results in academics for his students. He has been instrumental in developing researching skills among the students which helped them in accomplishing one major research project successfully under his guidance. Besides teaching, he also worked as a Counselor in the Admission cell of the college, ERP Coordinator for his department and contributed as a Career Fair Coordinator in "Parivartan," the annual event of the college.



IT

Heena Wadhwa, M.Tech in Computer Science and Engineering teaches the subjects of Advanced Database Management System & Research Methodology to the M.Tech students and Software Project Management to the B.Tech students. She is a very efficient teacher who has achieved almost 100% academic results for her students. One of her B.Tech student was also placed in the merit list. Besides teaching capabilities, she has also undertaken a number of other responsibilities. She is the Departmental Coordinator for the Campus Connect Program and also conducted two FDPs sponsored by NITTTR Chandigarh.



App. Sci.

Ms. Satvinder Bakshi MA (English) MEd possesses a long experience of over 24 years in the field of education. She has a great passion for teaching English & Communication Skills. Besides achieving almost 100% results in academics for her students, she also prepares them for placements by working towards enhancing their personality and instilling self confidence in them. She also holds many other key positions which include editorship of the CEC newsmagazine, Coordinator In charge of the Student Welfare Committee CEC and Excelsior Club, Applied Sciences. She also contributed significantly as a Faculty coordinator in MUN 2016 held by the Department of International Affairs. She was also awarded "Gold Partnership Award" by Infosys Campus Connect for bridging the gap between the Campus and the Company.



ECE

Preeti Bansal has a rich teaching experience of thirteen years in the field of education. She has a great aptitude for teaching and has been able to create strong technical skills among her students. Besides achieving remarkable academic results for her students, she has also contributed significantly as a Coordinator of QEEE (Quality Enhancement in Engineering Education) and DSIR (Department of Scientific and Industrial Research).

# APPLIED SCIENCES

## FRESHERS PARTY 2k16



CEC organized a grand party to extend a warm welcome to the 1st year students who joined the college on 27th August 2016. This event popularly known as FRESHERS PARTY provided the new students an opportunity to mix up with the seniors and open up to exhibit their talent by staging a variety of cultural programs comprising of singing, dancing, skit and above all the most exciting FASHION SHOW. A panel of judges declared Harsh deep Singh, the winner of Mr. Fresher CEC-2016 and Nodita as Miss Fresher CEC-2016.

Besides these glorious titles, other interesting competitions like Best dressed Student, Best Turban, Best Smile and Best Walk were also held which were highly enjoyed by the audience. The winners of Fashion Show and all other titles were awarded with trophies.



## Physics and Chemistry of graphene-metal contacts at nanoscale

Gagandeep Kaur is working as an Asst. prof. in Physics at CEC Landran in the Department of Applied Sciences. She has more than 12 years of teaching experience. Her research interest includes Physics and chemistry of grapheme-metal contacts at nanoscale. She has presented 10 research papers in various national and International conferences on structures and energetics of graphe-meental contacts. Major publications include paper on "Theoretical investigation of structures and energetics of sodium adatom and its dimer on graphene: DFT study" published in Physica E with impact factor of 2.0 and "Structures and energetics of lithium adatom and its dimer on graphene—a DFT study" published in Applied surface Science with impact factor of 2.982. She has also presented paper on "Density Functional Study of Sodium Adatom and its Dimer Adsorbed on Graphene" at NANOSMAT-2014 held at RICE University, Houston, USA. The calculated adsorption energies suggest that clustering of Na atoms is energetically favorable. Na<sub>2</sub> binds very weakly as compared to other alkali metals due to its closed valence electron shell. Obviously, these observations are related to the atomic radius and ionization potential of the alkali atom in question, which affect both the adatom-adatom and adatom-surface interactions. This work can serve as a basis for future theoretical studies and experiments like rechargeable sodium-ion batteries (SIBs) involving adsorption of small clusters of sodium on graphene or other carbon substrates.



An Expert lecture was organized by Applied Sciences Department, Chandigarh Engineering College, on "Innovation and Futuristic Trends in Nano-Technology" on 5th September 2016. The guest speaker was Dr. N.K Verma, a renowned Professor in Physics at Thapar University, Patiala with his vast experience in the field of Physics. He enhanced the knowledge of the students by making them aware about Emerging field of Nano-Science & Nano-Technology. 413 Students Attended the lecture.

## EXUBERANCE 2k16

EXUBERANCE 2k16 was organized in a grand way by students of the AMERICAN CHEMICAL SOCIETY on September 28, 2016. As part of this techno-cultural fest, back-to-back competitions were conducted in the Applied Sciences of Chandigarh Engineering College. Over the day, events such as splitsvilla, group debate, scavenger hunt, tug of war, robo soccer, fastest fingers first and many saw enthusiastic participation from 538 + students. The judges for the event were faculty members of the college.

The fest was inaugurated by Guramanpreet Singh, Deputy DFO. "This fest is a boiling pot with new chemical reactions," he jokingly remarked. Continuing on a more serious note he noted that ACS was a forum for students to nurture their talents.

The day saw exuberant students participate in a myriad of competitions. Students from all the college exhibited their talents. Competition was stiff and judges had a difficult time choosing winners. "The competitions helped foster friendly relations between students of different branches and interests," remarked Arshdeep Kaur, faculty coordinator of ACS. After that, Prizes were awarded to all the winners of various events.



## DEBATE COMPETITION

The Department of Applied Sciences under the banner of Excelsior Club organized a debate competition for the students on the topic "Google is Spoiling Creativity and the Ability to Think." A total of 60 students participated in the first round out of which 22 were selected to participate in the final round.

It was a tough war of words in which the students spoke with great confidence and put forth brilliant arguments defending their stand. The students who spoke "For the motion" stressed on the point that Google is responsible for killing the creativity among students as Google is the easy way out and people have stopped putting pressure on their brains. The participants who argued "Against the Motion" spoke vehemently that Google increases a person's knowledge as it is overloaded with information.

The conclusion derived out of the discussion was that "Something that was created for the benefit of people should be used in a way that it works as a blessing for us and if not done in the right way might work as a curse.

The highlight of the debate was the rebuttal round in which the participants were asked questions by the judges and the audience. The debate competition came alive as a volley of questions were asked to the participants.

The Director Principal CEC applauded the efforts of the students and remarked that such events go a long way in boosting the confidence of the students in public speaking. The winners were awarded with trophies by the Director principal CEC.



**IGNITE** — Jay Mehta M.E.

Everything happens for a cause  
Do something great to get ap-  
plause

The more you sweat  
The better you can get

Enjoy every moment of life  
Never get worried of strife

The dreams you see  
Are like a shady tree  
Fulfil them as soon as possible  
Speed up like a jet which is un-  
stoppable

Whenever negative thought arise  
Just think about sunrise  
Always think and do positive  
Which makes you supportive and  
operative

**Forbidden**

**Love** — Shufana Shabir  
Banday C.S.E

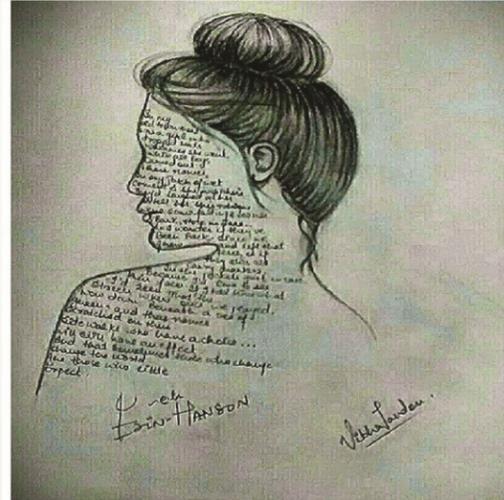
I own up how much scared I am  
Too scared to break the silence of secrets  
You demand an explanation of dreams  
So, let's speak of profanity and deeds  
I fear you might delude my poor expectations  
I fear you might hide, breaking reverie of my  
dreams;

Death, now my dark one is chasing me  
And hiding from me ( chasing and hiding from  
me?!)  
On seeing me left with resentments  
On seeing berserk agony in me  
The mystic grave should wait for now  
While I make bonfire of the forbidden love

Your choke hold doesn't kill me yet  
But it's writhing something deep inside me  
There's a hold, a clutch on my mind  
You forgot to relinquish before you left  
Death, ever since your grasp spoke the truth  
I've been talking about the taboos of love and  
death

**Free** — Himesh chopra C.S.E

Its been years since I came on this  
pale blue dot  
Everything to me they taught  
days became months, months into  
years  
everything I had except freedom  
Couldn't decide what went wrong  
I did to be deemed  
These chain these shackles these  
cage cannot hold  
Born to fly  
Will fly alone  
With the wings spanned longest  
I flew  
Away from the cell to change this  
another planet's hell  
I flew over the wells  
Across the waters to tell how it is to  
perch upon a tree  
How it is  
To be FREE.



Beautiful Paintings by Vibha Tandon  
5th Semester  
C.S.E.



Beautiful Campus Click



PTU Inter College Chess Tournament was held at Bhutta College, Ludhiana on 13<sup>th</sup> and 14<sup>th</sup> September 2016 in which colleges from various regions of Punjab participated. CEC sent two teams in the tournament. Three series were played in one day and the students gave a tough competition to other colleges.

The Girls team comprising of Laveena, Anima, Garima, Princedeeep and Swati bagged the second place winning the silver medal.

The Boys team Sahil, Sumit, Gursimran, Ravinder from CEC and Ferry from CGC COE bagged the third place winning a bronze.

## Chess



## Swimming

CEC college swimming team consisting of two players participated in the PTU Inter College Swimming tournament held at GNDEC Ludhiana. Our College team won the overall Second Place (Three Gold, Three Silver and One Bronze medals) in this tournament. Maninder Singh was the star performer in all the different tournament events. He won three gold and three silver medals. Ashish Kumar won a bronze in 100 M Butterfly event.

# SPORTS @CEC



Chandigarh Engineering College Badminton (Men and Women) teams consisting of 13 players 5 Boys and 4 Girls (CEC) and 4 Girls (CCP) participated in the PTU Inter college Badminton tournament held at DAVIT, Jalandhar. Our College CEC Badminton (Women) team won the 3rd place in this tournament defeating CCP team in bronze medal match.

## Badminton

## HANDBALL

CEC Handball (Men & Women) teams consisting of 22 players (12 Boys and 10 Girls) participated in the PTU Inter college Handball tournament held at IET Bhaddal. Both boys and girls Handball team secured 1st Place and won the Gold Medal in this tournament. Boys team defeated DIPSIMT, Jalandhar in the keenly contested final match. The girls team won gold by defeating DIPSIMT, Jalandhar after defeating DAV, Jalandhar in the semis.



## BasketBall

CEC Basketball (Men & Women) teams consisting of 24 players 12 Boys & 12 Girls participated in the PTU Inter college Basketball tournament held at GNDEC, Ludhiana. Our College Basketball (Women) team won the first place in this tournament. The team defeated LCET, Katani Kalan in the final match.



# The Team



Dear Readers

"The Communique" is a combined initiative by teachers and students, covering every aspect of college life with keeping you up to date with all what's happening in it . The News Magazine's solely aim is to motivate and push ahead the budding artists. and writers Wishing you wholesome reading.

Gunagyam Sharma  
DESIGNER and Student Editorial[5th Sem]  
CSE Department

DESIGNER

Dear Readers

It is heartening to bring out the quarterly issue of the news magazine "The Communique". It reflects the students observations and experiences which they absorb with curious and eager receptivity. It not only showcases the students creativity but is a also a vehicle of sensitization exposing them to the powerful currents and waves of thoughts, feelings and actions which rise and fall around them all the time.

Aanchal Sharma  
Student Editor[3rd Sem]  
CSE Department

Dear Readers

You have in your hand "THE COMMUNIQUE", which is an initiative by the Students, for the Students. It captures the momentous moments of the CEC Family and provides a platform to the students to exhibit their work. In future editions, we expect more students to join the Editorial Team and contribute to the success story of THE COMMUNIQUE. We apologize for the shortcomings and hope you will cherish our efforts.

Aayushi Sharma  
Student Editor (3rd Sem)  
ECE Department



Dear Readers

This News magazine has given students an opportunity to portray their skills besides motivating them to come forward with their outstanding work and hidden talent in the areas other than academics. The students are very happy to get a chance like this and have responded very positively. I hope more and more students should come forward to contribute in this News magazine. I hope the readers find it informative and interesting. I extend my best wishes for a greater success.

Malvika Diwan  
Student Editor[3rd Sem]  
IT Department



Dear Readers

It is a great honour for me to be a part of college magazine. It has given me an opportunity to contribute something for the college by way of bringing in limelight the various events which took place in our department. I believe in kindness because I feel it is the kindness that makes you brave. I wish all the students best of luck for their upcoming PTU Exams.

Caleb Abraham  
Student Editor [5th Sem]  
ME Department



EDITORS



UNsung

# HEROES

## JYOTI SARUP KANYA ASRA *a true story of hope....*

I cannot even fathom how it might be to lose someone so close to you. Every time I would go to an orphanage I would bawl my eyes out thinking how could life be so cruel.

When you visit Jyoti Sarup Kanya Asra you have the same thoughts but as soon as you enter you hear voices so full of life that it makes your whole day light up. All these little girls gleaming with joy despite the heartbreaking experiences each of them had endured. This is nothing like an orphanage, it is like a happy cheerful family.

The founder, Dr.Harminder, who has been a guiding light for many since 1998 was born in a normal middle class but his childhood was snatched from him at a very early age. He lost his father at a very young age and the family duties fell upon his Uncle. Anytime he would try to act like a child the elders would look down upon him for not understanding the depth of the situation and the times that he did try to stand alongside the elders he was ridiculed for being too young. Later, he came across some young girls who had lost their parents and had nowhere to live. His childhood flashed before his eyes. He realised that he could relate to those girls on so many levels and couldn't let it happen to them. He took them under his roof and it was then he realised his purpose.

Now Jyoti Sarup Kanya Asra has over ninety girls under its roof, ranging from two-year infants to twenty-three years and the number is growing rapidly. The girls are provided education in established schools and colleges of Kharar, S.A.S Nagar and Chandigarh based on their mental ability and interests.

It is the effort of people like Sardar Darshan Singh that the society still is a place for the girl child. At Jyoti Sarup Kanya Asra they have made a start and need your help and support to bring joy into lives of many more Pooja, Rajni and Anu.

## Tech Dreamer

Hritik Chawla is a First Semester CSE student who is already working with the topmost brands in the country propagating their goods with the help of technology. Hritik carries a vision that the day is not far when most of the youth across the globe would buy their needs with the help of the net. Recently Hritik participated in the inauguration function of Honor 8 a new revolution in mobile technology. The well attended function held at New Delhi introduced the new technology of dual camera in mobiles. He introduced the product to the market with the help of his YOUTUBE CHANNEL –

[youtube.com/hritikchawla](https://www.youtube.com/hritikchawla)

He dreams of achieving great heights in future and with the advancement of technology and the initiatives of the government he feels that India soon is going to dominate the software and hardware markets in the globe.

## My Duty Towards Society

Krishan Kant one of the faculty members in Applied Sciences Department has to his credit much social work. He not only conducts regular Cleanliness Drives in the area where he resides and in his neighbouring areas but also provides free education to poor children.

Due to the cleanliness drives conducted recently in EWS Colony, Sector 38 West, EWS Colony, Sector 37 and in many other colonies people have started paying attention to personal hygiene. This has changed the lifestyle of many residents of these areas, he informed.

Education gives right direction to the life of an individual and it is essential that we provide opportunity to every individual to excel in life. Going by this motto he has been providing education and guidance to students. Many a students have gained from his motivational lectures. Free classes for needy students are conducted by him on a regular basis for the last many years.

## SHINING WITH STARS

Avantika Bector, student of CSE (3rd Year), is a professional model working in the Glamour Industry since March 2016. She is an integral part of College's Fashion show team and has represented college in various inter-college Fest Competitions. She has done photo shoots for various Catalogs, THE MIRROR Magazine, Mercedes Benz Chandigarh as well as poster shoots for jewellery and optical brands. She was also seen in two Punjabi songs i.e. BLACK ROSE along with singer Honey Sood and in ZINDAGI along with Stephen Martin. Her new song BREAKUP STAR along with Sippy Gill and Prabh Gill will be out soon. The entire CEC is proud of her accomplishments and we wish her best of luck for future.

## FACULTY RECOGNIZED PUBLICATIONS



**Use of Nanoparticle in material manufacturing**  
-Dr. Ajay Vasishth  
Professor and Head  
Applied Sciences

Nanotechnology today is being used by many manufacturers to develop products having better capabilities. These are also being used to lower their production costs.

Researchers at Purdue University have demonstrated a method called laser shock imprinting. This method produces nanoscale metallic shapes, which could potentially give them appealing optical and mechanical properties using a bench-top system.

This system produces the shapes that are cost-effectively and can be produced at a large scale. A major advantage of the shock-induced forming method is that it creates high-fidelity structures and sharply defined vertical features and corners.

In another study, Northwestern University researchers developed low-cost, high-resolution nanofabrication tool, which employs beam-pen lithography arrays to produce nanoscale structures. This tool enables users to quickly process substrates that are coated with photosensitive materials known as resists and create structures that cover the micro-, macro-, and nanoscales, all in a single experiment.

Materials fabrication and materials innovation are at the core of nanoscale science and engineering. Nanotechnology makes it possible to modify the materials' key structures at the nanoscale to obtain desired properties. Through nanotechnology, materials can be made lighter, stronger, more durable, more sieve-like, more reactive, better electrical conductors, etc.

More than 800 commercial products depend on nanoscale processes and materials. For instance, nanoscale additives used in polymer composite materials for tennis rackets, baseball bats, automobile bumpers, motorcycle helmets, power tool housings, and luggage can make them strong, lightweight, resilient, and long-lasting. Similarly, the use of nanoscale additives for surface treatments of fabrics makes the fabrics resistant to staining, wrinkling, and bacterial growth.



Investigating surface properties of cryogenically treated titanium alloys in powder mixed electric discharge machining

**Dr. Sanjeev Kumar**

Associate Professor  
Mechanical Engineering

Although electrical discharge machining is a metal removal process in form of debris, efforts have been made in this article to make use of this process as a surface treatment method. Effect of different process parameters and mechanism of material deposition also studied under this study. Powder mixed electric discharge machining (PMEDM) process has been used which helps in improving the surface properties. In this study, changes in surface properties of cryogenically treated titanium alloy after PMEDM process were investigated. Experimental results showed significant improvement in micro-hardness by 94.85%. Various studies, like scanning electron microscopy (SEM), energy-dispersive X-ray spectroscopy (EDX), and X-ray diffraction (XRD) were carried out to study the characteristics of the machined surface. After scanning the machined surface through XRD and EDX, the transfer of various elements from electrode material and powder mixed dielectric and their chemical compounds were observed. After screening the results, peak current was observed as the highly influential parameter that affected the micro-hardness as well as surface quality of the machined surface.

## CEC RANKING

# CEC Ranking

**Prime Time Research Media Private Limited (Global Education Excellence Awards, 2016)**

**"Most Innovative Engineering College in India"**

**DQ-CMR Best Technical Schools Survey 2016**

Rank: 11 in Top 25 Private Institutes 2016 (Established on or after year 2000)

Rank :09 in North Zone

Rank: 26 in Top 100 Private T-Schools 2016

**The Week - Best College Survey 2016**

1). 57 Rank in Top Pvt. Engineering College in India

2). 09 Rank in Top Pvt. Engineering College in North

**Chronicle 5th All India Engineering Survey 2016**

Rating A++

2nd Rank in top ten colleges in terms of Industry Interface

2nd Rank in top ten colleges in terms of Placement-2016

3rd Rank in top ten colleges in terms of Intellectual Capital-2016

3rd Rank in top ten college in terms of Academic Excellence-2016

**Careers360 Engineering Rating 2016**

**AAA+**

**INDIA TODAY - NIELSEN COLLEGE RANKING 2016**

**55 Rank**

**SEED (Sustainable Institute Industry Partnership & SIIP) 2016**

Sustainable Institute Industry Partnership (SIIP - 2016)

**Praxis Media-2016**

National Education Excellence Awards

**Chronicle (Civil Services Chronicle) 2016**

**A++**