

2020-2021

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EXPRESSION

DEPARTMENTAL MAGAZINE



Department of Electronics And IT

An Archive To Spark Your Imagination

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SANATAN DHARMA COLLEGE

NAAC Accredited grade 'A+' with CGPA 3.51 in the cycle

The Sanatan Dharma College was established in the year of 1916. The founders of the college were great sanatanis Pandit Madan Mohan Malviya and Pandit Deen Dayal Vachaspati. The college was established in Ambala in 1948 the partition of India in 1947 with the efforts of Goswami Ganesh Dutt and other members of college's management. The foundation stone of the college building was laid by India's first President Dr. Rajender Prasad on 3 October 1951.

It is amongst three colleges in the state of Haryana to be granted the status of 'College with Potential for Excellence' by the University Grants Commission (UGC), Delhi for 2014 to 2019. It is accredited as a grade "A+" college by the National Assessment and Accreditation Council (NAAC), Bangalore in its 3rd cycle.

The Vision of the college is an offspring of the lofty ideals of its founders and great educationists like 'Bharat Ratna' Mahamana Pt. Madan Mohan Malviya, which in Sanskrit reads: Tamso Ma Jyotirgamay or Lead Me from Darkness to light.

The primary mission of the college is to uplift the society through education. Like a beacon, guiding the philosophy of nurturing a healthy human resource that is endowed materially, intellectually, morally and spiritually, the institution continues to spread the light of knowledge.

The institution aims at generating a productive human resource by laying emphasis on "Improving the Quality of Life" through purposeful education.

Department of Electronics & IT

The Electronics & IT Department of the college came into existence in 1981 under the headship of Prof P. Mathur and able guidance of Dr Rajinder Singh Rana, Associate Professor and Senior faculty members of the Department. Department was started with B.Sc Electronics but the unprecedented technological development in the field of Electronics, IT and Computer Science and the zeal of Prof P. Mathur and Dr. Rajinder Singh Rana to grow at the pace of technological development has made it possible for the department to touch new horizons. Now the department is offering:

- Electronics in B.Sc. I, II, III (As restructured Subject)
- B.Sc. (Hons.) Information Technology I, II ,III Three year full time course
- Circuit Design on PCB (Value Added Course)
- Computer Maintenance (Add-on Course)

Latest teaching methodologies including Audio Visual equipment, presentation software, slides are used by the faculty to improve the teaching learning process which enhances the skill of students. The department has one well equipped ultra modern computer lab with the latest facilities and two well equipped electronics labs with latest equipment.

The Department has its own library which serves as a central organ of academic activity in the Department. It has a rich & vast collection of Text books and complementary books . It also has one copy each of all projects and on the Job training Reports carried out by the students of vocational courses . All these cater to the needs of faculty. Most of the books are of recent edition with the facility of issuing these for a specified time period.

The Department has always been on a high growth path and has experienced and dedicated faculty with a strong commitment to Electronics & Computer education.

Message

From the Principal's Desk

Sanatan Dharma College aims towards bringing out the latent talent in students through providing them myriad opportunities.

A Departmental Magazine is a platform for students to showcase their creative abilities, hidden dreams and aspirations for writing. It encourages students to



express their ideas and thoughts in a creative manner through writing. I congratulate the team members of Electronics and IT Association for their creative efforts and coming up with the very first Departmental Magazine "**Expression**". This magazine is a nice blend of informative technical articles with light creative articles.

I appreciate every student who shared the joy of participation in co-curricular and extracurricular activities along with their commitment to curriculum.

I also congratulate the mentors who guided and helped them in their endeavor. I wholeheartedly congratulate the entire team for their marvelous efforts!

Dr. Rajinder Singh

Principal

Sanatan Dharma College

Message

From the Head of the Department

I am glad to pen in this magazine **Expression** which is a fruitful result of great efforts of Electronics & IT Association team members and their mentors. The magazine provides updates on the events organized by department technical articles creative articles and other relevant information



that make the reader enjoy reading it. I extend my complete support and wishes to the team. I also wish the team to continue serving the department and the students in the upcoming years.

I also appreciate Ms. Neha Dobriyal for giving shape to this project and constantly guiding students and working with them for the completion of the task.

My hearty wishes to the entire team for their eminent efforts!

Dr. Arti

Head of the Department

Message

From the Technical Adviser

I appreciate and congratulate the entire team of the “**Expression**” for their successful completion of this tiresome yet daunting task of putting together the innumerable thoughts and talent of students into a meaningful and delightful annual publication. This type of work is not an outcome of a few days of work, it takes a lot of time and consistent efforts to bring such work into reality. The team has worked enthusiastically day and night. They have also managed their studies along with this successfully.



*“Knowing and believing in our own potential is the primary
requisite for being successful in all our endeavors”.*

It gives me immense pleasure to see that the students explored new software and innovative ideas to bring out this magazine. I congratulate the team for their extraordinary skills. I believe that this work will be interesting and informative to the

Palvinder Singh

Technical Adviser

Departmental Magazine

From the Chief Editor

Neha Dobriyal

Chief Editor



I feel immensely proud writing this cover note for the **"Expression"**. It gives me immense pleasure to work along with the hard working and enthusiastic team members of the Electronics & IT Association in making this magazine possible and releasing it successfully as per schedule, which in itself is an achievement, considering the effort and time required.

The team has been functioning successfully in full swing throughout the academic year 2020-2021. The entire team worked with the motto of:

"Try, progress, never give up even if you make mistakes and improve continuously until perfection is reached"

I congratulate Association Head and Heads of all the teams along with their team members for their great work and the team spirit they showed during the process. I am

Ms. Neha Dobriyal

Chief Editor

Electronics & IT Association



Ajay Chauhan
Managing Editor



An investment in knowledge pays the best interest.

– **Benjamin Franklin**

Achievers have can-do attitude that sets them apart mere. Achievers are sold out to success no matter the obstacle and they are willing to put forth the effort and pay the price of success. We are pleased to present to you 1st Edition of “Expression” the Magazine of Electroincs and IT Department.

I manage the workflow of magazine by creating a list of magazine’s feature, column and department stories and other editorials.

I work with the chief editor to suggest topics for the articles or to edit them when they arrive from the co-team mates. I manage the day-to-day operations to be performed for magazine which includes generating story ideas, planning, assigning, editing content, commissioning stories and supervising editorial team and co-team mates.

Copy Editor Team



Garima



Arpita



Divyanshi



Kirti



Tammana

*Follow your bliss and the universe will open the doors where there were only walls – **Joseph Campbell***

We make sure that a text is readable, accurate and ready for publication. We check text to ensure it is well written and logically structured, grammatically correct with correct spelling and ensure the text is in line with the publisher's 'house style'. We also Verify factual correctness of information, such as dates and statistics.

We check text for style, readability and adherence to editorial policies. Rewrite text for improved readability.



Rajat



Muskan



Anu

Creative Design Team



Muskan



Abhishek



Himanshi

*An essential aspect of creativity is not being afraid to fail – **Edwin Land***

We create the design for Magazine. We determine the size and arrangement of copy and illustrative material, as well as font style and size. We also prepare rough drafts of material based on an agreed brief. We design these materials using paper sketches and digital illustration software. We follow the process from concept to rough layout to prototype to complete project.

Photo Editing Team



Vishal



Dipti



Om



Adhyan



Asha



Priya

Photographs open doors into the past, but they also allow a look into the future..

– Sally Mann

This team review and select photos for promotion, publication, and dissemination. We identify relevant images, edit photos to make them more appealing, and arrange them in a suitable layout. Also assign projects to photographers to meet the organization's photography needs. This includes Createing a portfolio of visual assets, Procures and manipulates photos and images as needed. Collaborates with photographers and editors to ensure alignment.



Gaurav



Chanakya



Gurharneet



Jyoti

Fact Checker Team

If the facts do not fit the theory, change the facts. – Albert Einstein

Our Work begin with good research skills and an instinct for knowing when a fact has actually been confirmed. We confirm details with a source without watering down, or altering, the story itself. This can include spelling, grammar and punctuation errors.

To confirm historical information, the dates of events that happened decades ago are as important as those of current events. We aims to identify errors so that the text can be corrected before final publishing.

My Experience in College

"Don't count the minutes, hours, days, weeks, months, or years; count the memories"

As written above and also, I have heard from many people that college memories are some of the most memorable and beautiful memories of one's life. I always wished to study from a well-reputed college and wanted to pursue my degree in B.Sc. with a specialization. Fortune favoured me and I got admission in one of the most prestigious colleges in Haryana i.e. Sanatan Dharma College and also in B.Sc. stream with specialization in I.T. which was like a cherry on the cake. Being a Fresher, it felt like a dream to attend college, meet new classmates, teachers and gain experiences but who knows that this pandemic situation will go on for so long.

Even during this pandemic, our college took many initiatives so that the students don't suffer in their studies and build a bright career. Our college organized online classes on the google meet platform so that students can easily attend the lectures from their home during this pandemic time. Our college also provides free textbooks to meritorious students through the library without any charges so that students can have equal access to education.

The teachers here are professionals and every teacher has vast knowledge regarding their particular subjects. The helping nature of teachers makes it easier for us to resolve our queries under their guidance. They teach us with a very practical approach which makes it easier for us to understand any topic. In fact, now we feel that studying online is more convenient as it saves a lot of time. We can even attend classes if we're not in the town and we get enough time for self study, extra activities, etc.



Also, the system named LMS (learning management system) or Moodle has been developed by the college for easy availability of every topic covered in class, (like recorded lectures) for sharing important announcements, discussing queries, submission of assignments and recently our sessional exam questions were also uploaded on Moodle itself. We can access study content at anytime from anywhere on

computers or smart phones through our college's online site. We can say that the online mode of education proved to be very beneficial for us during this pandemic time by giving us sufficient time for self-study.

Apart from these, our college also organized offline doubt sessions in college campus so that willing students can come to campus and clear their doubts where the teacher gives personal attention to the doubts of every student. This has helped me to clear some of the major doubts in subjects like Maths, Electronics, etc.

Various competitions and educational and motivational seminars were also conducted by our college. The college also focused on the development of skills amongst the students even during this epidemic. Many extracurricular activities have been organized by the college so that the students can polish their skills and exhibit them in front of everyone.

Recently, a talent hunt competition was organized. I also participated in it. I did a dance performance for which I was appreciated and stood second. This was my first achievement in this college. This motivates me to further take part in upcoming programs so that I can elaborate on my skills.

I have also been recommended for the post of Assistant to the Joint Secretary by my mentor Ms. Neha ma'am and Dr. Arti ma'am, which was a great achievement for me. It felt so good that my teachers believed in me and considered me capable of this position.

The college also provides us with the opportunity to enroll in many interesting certificate courses for increasing our knowledge and skills that will surely help students in their future. I also participated and enrolled myself in courses regarding Microsoft PowerPoint, Excel, and Web development which will surely benefit me in my career field. The online material of these courses are also uploaded on Moodle and we have lifetime access to this, Isn't this great!



Not only this but our college also gave us the opportunity to participate in the National Level Entrepreneurship Quiz that helped me gain knowledge about various brand logos, taglines, and famous business personalities.

During the epidemic, when everything was going on or happening online, so why not friendships! Some of my classmates and I started having conversations online and became good friends. They're such kind souls, always ready to help me whenever I

need their help. Since a coin has two sides, we have disadvantages of online mode of education too. Students can't interact with each other properly. Also, a student-teacher relationship is missing in the atmosphere. Students can't interact with their teachers properly. Sometimes, due to network issues or technical problems we're not able to understand topics clearly and likewise teachers also face trouble sometimes. But we also can't take the risk of attending the college in physical mode due to the risk of this pandemic as the mortality rate of Coronavirus is very high.

Also, the hygiene conditions on the campus are excellent so that we can attend doubt sessions in our college campus very comfortably without any obstacles.

In a nutshell, my experience in this college would be very comprehensive. This is a very professional educational institution that provides quality education to its students. Apart from studies, one can learn many extracurricular activities in this college.

The college teachers are professionals and know how to deal with students and make them understand particular subjects. Their helping and kind nature makes a healthy atmosphere in college.

The college management is well concerned for the career of students and takes important initiatives whenever needed. In future I'll try my best to participate in various activities to gain as much experience as I can, maintain good grades and live up to my teacher's expectations.

At last, I would say that I hope I'll get a plethora of opportunities to upgrade my skills and being one of the association members I'll share my views and ideas too and I can say that I feel honoured being a part of this prestigious institution.



Arpita
B.Sc. IT

5 MUST HAVE TRAITS IN A STUDENT

"काक चेष्टा, बको ध्यानं
स्वान निद्रा तथेव च
अल्पाहारी, गृह त्यागी
विद्यार्थी पंच लक्षणम् ।"

**"Every one of us wants to know
one magical way that can
change our life completely.
Here with the help of a shloka I
am going to unbox the magical
way for you."**

Kaak Cheshta- Here kaak refers to the crow, every one of us had heard a story of a thirsty crow in our childhood, so the way crow maintain its patience, do hard work and efforts for achieving his goal of getting drinking water the same way we need to work hard.

Bako Dhyanam- Its refers to the intense focus of the crane. If one may look at the crane it is completely focused into the water, the fishes are passing by but the crane is smart enough by not getting distracted by small fishes as the crane knows if sit focus on small fishes it may lose the big ones. Similarly in life when we know what is more important to focus on we should let the distractions pass by and focus on what's important.

Swan Nidra- Here swan refers to a dog and nidra means sleep so swan nidra means sleep of a dog, to be more specific the alertness of a dog like. If we observe a dog sleeping it may look like his eyes are closed but the instant there is any utterance in the surroundings it immediately gets alerted. Similarly in our surrounding there is too much to learn but the only thing required is our alertness otherwise we will lose the golden opportunities in our life.

Alpahari-In Sanskrit ahara means food and alpa means less here we are not considering the literal meaning of ahara as the food here ahara refers to the input given to ourselves through various sense organs like for ears good music, for our eyes good sight. It is not necessary to accept everything coming our way; we should try to get the right input that will not harm you in any way by letting the garbage input passing by.

Ghrih Tyagi- Ghriya means home and tyagi means leave. In ancient times we know that kids at an early age used to leave their home to get the knowledge from their teacher. Here not applying literal meaning of ghrih tyag instead it means leaving our comfort zone, if we don't leave our comfort zone there is no point in pursuing it. Simply it's like no pain no gain!!

These are the five traits that a student should have. Here student refers to every person as there is no age limit of learning and at every point of time every person is a learner.

Dipti

B.Sc. Elec

My Robot

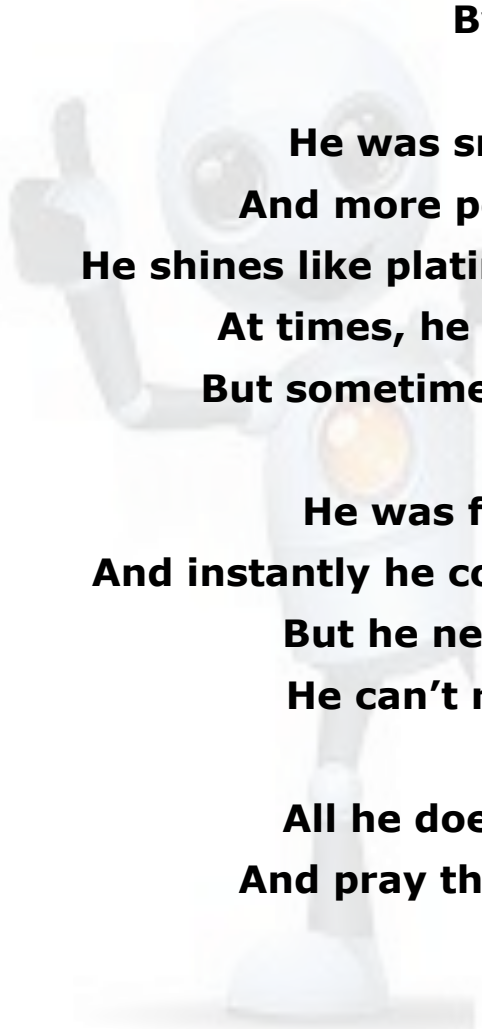
I hired a robot to read a poem for me.

**From 0 to 1 and 1 to 101,
He likes to write in binary,
Bytes for fun.**

**He was smarter than Newton
And more personable than actors,
He shines like platinum and have a heart of gold.
At times, he takes selfies with pout,
But sometimes all he does is "shout".**

**He was funny like Mr. Bean,
And instantly he collaborated with many teams.
But he never got a day of fun,
He can't remember even one.**

**All he does is work and sleep,
And pray the lord its soul to keep.**



Anamika
B.Sc. Elec

Uranium 492,
Electrolysis House,
Lead Storage House
To,

Mr. Ammonium Chloride
Kjeldahl's Street
Universal

Dear Ammonium Chloride,

I take a great pleasure to inform you that my brother 'Sodium Chloride' has been engaged to 'Ferric Oxide' and the wedding will take place in ACID RAIN when Sulphur Dioxide & Nitrogen Oxide become maximum in the atmosphere. We will organize a gala function at which Potassium Cyanide and Sodium Cyanide will be serving and taking care of the guest along with Ethyl Alcohol. Your chemical presence is must for the fusion reaction.

Yours Sincerely,
Atom Bomb

आ चल! एक नया हिन्दुस्तान बनाते हैं !!

कुछ कर शर्म तू,
अपने आप पर,
आखिर कब तक,
करेगा व्यर्थ जिंदगी
हिंदू और मुसलमान पर

बरसो बीत गए यूँही
लड़ते - लड़ते
अब अमन और चैनसे जिंदगी बिताते हैं

आ चल, मिल के
एक नया हिंदुस्तान बनाते हैं,
हुए जो कुर्बान देश के लिए
उन की शहादत को फिर से
ऊँचाइयों पर लहराते हैं

लोगों के दिलों में देशभक्ति की लौ जागते हैं,
आ चल, मिल के एक नया हिंदुस्तान बनाते हैं



DEPARTMENTAL ACTIVITIES

GUEST LECTURE BY

Dr. Anurekha Sharma



PRODUCTIVE ACTIVITIES

Planting Seeds



SCI-FEST 2020 AT
Thapar University



Rail Mela

“NEW OPPORTUNITIES IN POST COVID ERA”

SANATAN DHARMA COLLEGE
AMBALA CANTT
NAAC Accredited Grade 'A+' with CGPA 3.51 in the third cycle | College with Potential for Excellence - UGC, New Delhi

Electronics & IT Association
In Collaboration with
Career Guidance Cell

Organizes
Guest Lecture
On
NEW OPPORTUNITIES IN POST COVID ERA IN INDIA FOR ELECTRONICS STUDENTS

Link to Register:
<https://forms.gle/xQ8JqUVgiGUdjhBT9>

Join us at Google Meet Link:
<https://meet.google.com/ftw-aghp-qz1>

27.01.2021 11:00 A.M

Our Distinguished Speaker
Dr. Anil Jain
President, Vaiseshika Electron Devices, Ambala Cantt.

Palvinder Singh Coordinator
Dr. Arti Convener
Dr. Alka Sharma Convener CGC
Dr. Rajinder Principal

The Department of IT and Electronics organized a guest lecture on the topic of "New opportunities Post Covid Era in India for - electronics students" on 27-01-2021 at 11:00 am on Google Meet.

Mr Anil Jain (President, Vaiseshika Electron Devices, Ambala Cantt) was the respected speaker of the talk. He is presently working as a mentor and advisor in Kurukshetra University's technical incubation centre.

After an impressive introduction of Mr Anil Jain sir, in the presence of our honourable principal sir, the session started . He shared his experiences with us during the lecture. He thoroughly explained about "Excellence in life through calibration of your digital space and social media". In this lecture he specially focused on the new

opportunities for students in the respective field. He explained about the digital space, by which one can showcase their talent through digital platforms. Mr. Jain gave accurate directions to all of us about the characteristics of digital space. Sir explained about calibration by an illustrative example through an easy mode, which easily caught the drift. He also told us about upcoming 5G Technology.

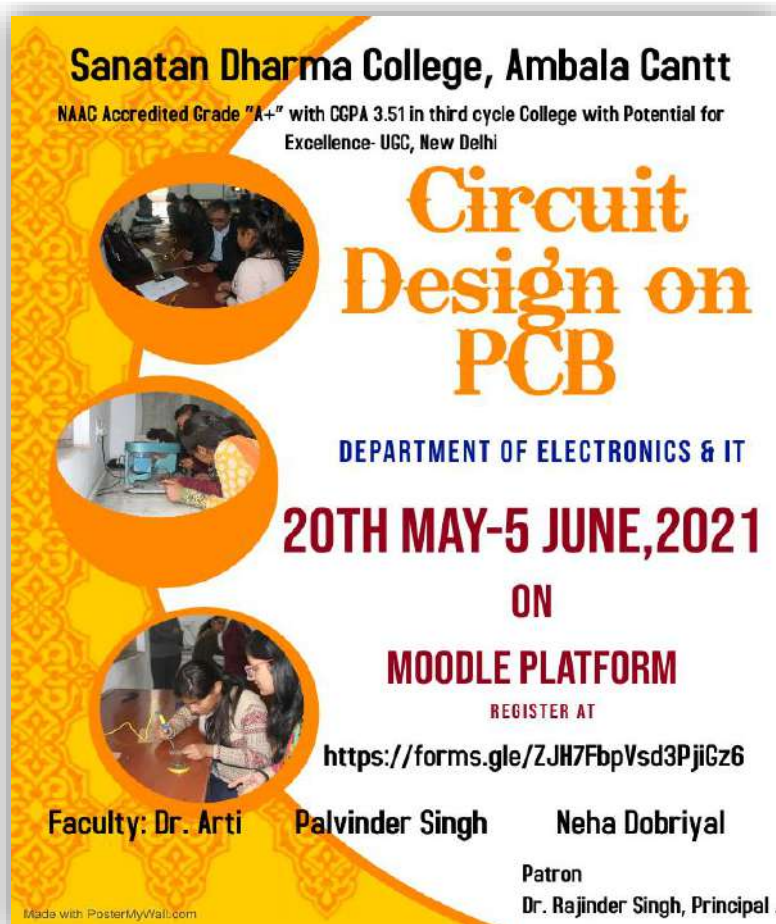
He also discussed the things of Internet, Artificial intelligence, social media and members of the virtual community. He also focused on Digital Toxicity, Global social media toxicity index and its impacts on every age group. After that he told all the participants to calibrate social media apps. Before the end of the session he shared his contact number & E-mail with students to be in touch with him and for further information regarding the opportunities.

It was a very informative session for all the students. It not only increased our knowledge but also made us aware of career opportunities in these fields.

Garima

B.Sc. (Hons.) IT-II

HOW I LEARNED PCB DESIGNING



Sanatan Dharma College, the college of dreams of most of the students, as it not only focuses on the education of the students but also about the overall personality of the students entering here to pursue their education. Many workshops, seminars and competitions are conducted by the college from time to time. I want to share my experience of a workshop on "CIRCUIT DESIGNING ON PCB" organized by the Department of Electronics & IT of our college from 20 May to 5 June 2021. As the college is still closed due to the ongoing pandemic, this workshop was conducted on an online platform. The best thing I like about the

faculty of our college is that they never stop thinking about how to increase the knowledge of students & explore their minds in every possible way even if there is a pandemic situation. In this workshop, we learned many new things in a sequential manner. We started with learning various types of PCBs (Printed Circuit Boards), active & passive components used in designing various circuits. Then we tested the components provided to us. After that, we were given a hand-on session on how to use the **Express PCB software** and how to make the PCB layout design using it.

As we had learnt about the circuit designing process then we were taught about etching process, drilling into PCBs and assembly of components as per our projects. Moreover, I really want to say that when we saw our working projects after a lot of hard work and knowledge we had grasped, the happiness on our faces was at next level. I found this workshop quite proficient & interesting.

Divyanshi Sharma

B.Sc. CS-II

MERRY TIDINGS... CELEBRATING MULTIPLE HUES OF INDEPENDENCE

Republic Day Celebration



Once there were three friends -

Mr. Physics, Mr. Chemistry and Mr. Math. One day, they went to a river bank. Mr. Math said, "I want to measure the depth of this river" and he jumped into it. After that, Mr. Physics said, "I want to measure the velocity of this water" and therefore, he also jumped into that river. Mr. Chemistry waited for them to come back but they didn't. After some time, Mr. Chemistry observed and concluded,

"They both are soluble in water"

Ques: What did a Thermometer say to a Graduated Cylinder?

Ans: "You graduated but *I have many degrees.*"

Once, a Neutron went to a restaurant and there he ordered a coke couplet. When about to leave, he asks the waiter for how much he owes. The waiter replied, "For you, **NO CHARGE.**"

Anu

B.Sc. CS-II

Don't Quit

When things go wrong as sometimes they will,
When the road you are trudging seems all uphill,
When the funds are low and debts are high,
And you want to smile, but you have to sigh,

Life is a queer with its twist and turns,
As every one of us sometimes learn,
And many a failure turns about,
When he might have won had he stuck it out,
Don't give up though the pace seems slow,
You may succeed with another blow.

Success is failure turned inside out
The silver tint of the clouds of doubt,
And you never can tell how close you are,
It may be near when it seems so far,
So stick to the fight when you are hardest hit,
It's when things seems worst that you must not quit.

Often the goal is nearer than,
It seems to faint and faltering man,
Often the struggler has given up,
When he might have captured the victor's cup,
And he learned too late when the night slipped down,
How close he was to the golden crown.

Gaurav
B.Sc. (Hons.)-IT

Innovision Project - “VRM”

It was 2019, when Dr. Arti shared the Innovision-2019 competition pamphlet with us and told us to participate in it. We three (Ajay, Vishal and Rajat) had a discussion and decided to participate in it. The competition was regarding innovation. So we mutually decided to make a device that can control the working of home appliances through



voice recognition. After that, we took our proposal to the next level and visited KUTIC (Kurukshetra University Technical Incubation Center) to present our idea. There we attended a 3 day workshop. They shortlisted some project ideas, among which ours was the one. We received an envelope in which they assigned us the final budget to make our prototype and other important information was also mentioned in it. They gave us a time limit of 4 months to complete our project but somehow we managed to complete it within 2 months.

We managed working on our project as well as our regular classes at college. After college, we used to work on our project at Ajay's house. We faced various difficulties like coding errors and lack of equipment. However, without losing faith and hopes, in those two months we did hard work to complete the project.

On the day of final submission, i.e. 15th Feb, we presented our model in front of honourable Dr. Anil Jain, Dr. Anurekha Sharma, Mr. Srinadh Mattaparthi and other KUTIC committee members. After that on 28th Feb, 2020, we attended a KUTIC program in which V.C. KUK and Padmashree Dr. Uddhab Bharali were present along with other KUTIC members. At the end of that program Winners were announced and to our surprise we were also among winners.

We got **Second Prize** and also received prize money of **fifty thousand**.

The following day, we went to our college and everyone appreciated us for our efforts and dedication. Our teachers congratulated us on this big achievement. Our mentor took us to the Principal's Office and our respected principal Dr. Rajinder Singh, praised our efforts and congratulated us on our achievement. He guided us for our future also. It was an unforgettable moment for us. We are grateful to Dr. Anurekha Sharma, Coordinator Kurukshetra University Incubation Centre. We would like to express our special thanks to our principal, Dr. Rajendra Singh, who had shown faith in our ability and encouraged us to propose the present work to KUTIC, Kurukshetra. We are also thankful to Prof. Parveen Mathur and our Mentor 'Dr. Arti' for their advice, their constructive suggestions during the planning and the encouragement that helped us to complete our project work before the scheduled time-period. I would also like to thank the faculty members of our Department for their help in offering us the resources. We wish to thank our parents for their support and encouragement throughout the period of work.



Ajay Chauhan

Vishal Saini

B.Sc. (Hons) IT-III

INNOVISION – 2019

Project “VRM”



HITTING THE HEADLINES



A Man much reserved by nature, was very hesitant to ask his boss for a raise in his salary. One Friday morning he got up and told his wife, "I will do it today Darling. I shall ask my boss for a raise in my salary". As the man came to his office, he was extremely nervous, anxious and very apprehensive all throughout the day to speak up. Late in the afternoon as he approached his boss, finally he gathered the courage to speak up and ask for a raise in his salary. Much to his delight the boss agreed. The man was on the top world and when he came back home, he saw a beautiful dinner table, fine crockery set on the table, beautiful candles lit up.

His wife had prepared a festive meal to celebrate the occasion. He guessed someone from the office might have tipped her off and informed her about it. Anyways he got into the kitchen, hugged her, gave her the good news and came and sat down to have his meal. Right there on the table was a card. The man picked up the card and read the contents. The card said, "Congratulations Darling! I knew you would get the get salary raise. These things, the dinner table, the crockery, the fine meal, all these things are to tell you, how much **"I LOVE YOU!"** Prep by prep the lady served her husband and as she went back into the kitchen finally to bring the dessert, from the pocket of her apron, fell another card unknown to her. The man picked up the card and as he read the contents of the card, he had tears in his eyes. On the card was written, "Don't worry Darling! Even if you do not get that salary raise, you deserve much more than that. This dinner table, this crockery, this fantastic meal, all these things are simply meant to tell you how much **"I LOVE YOU!"****TOTAL ACCEPTANCE, TOTAL LOVE, TOTAL SUPPORT**, her love for him was unconditional. It didn't depend on his success at work. Infact it was exactly the opposite. If he were to fail, if he were to be rejected, he would have needed that total acceptance and support all the more and she would be there by his side to support him. **"SOFTENING THE BLOWS, HEALING HIS WOUNDS, BELIEVING IN HIM, LOVING HIM"**.

Even if we were to be rejected by the whole world, if we have one person in our lives who can totally accept us, totally believe in us, totally love us and totally support us we can certainly achieve what we want and reach where we want to go. Therefore, surround yourselves with people who believe in you and accept you totally regardless of your successes or failures and also be that person for someone regardless of their successes or their failures.

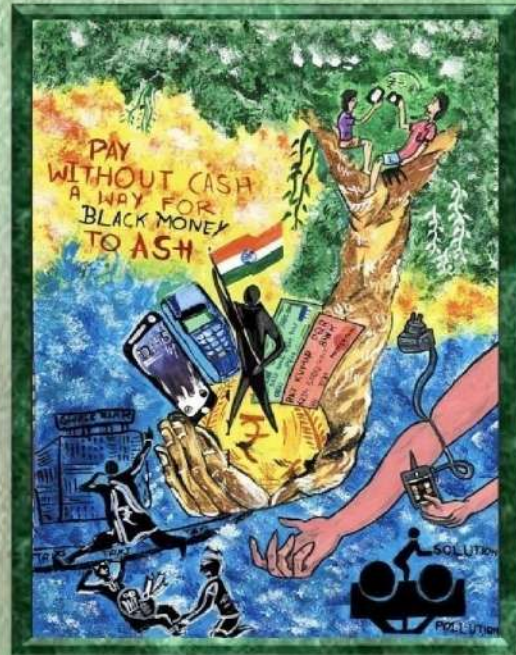
Abhishek Chauhan

B.Sc. CS-III

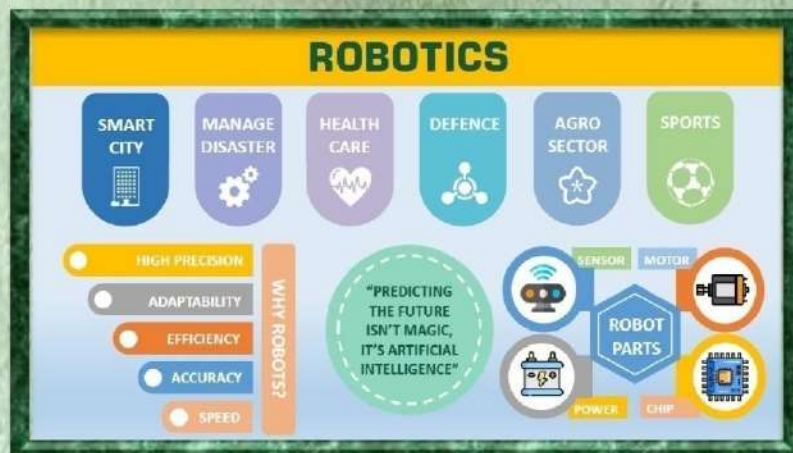
ONLINE POSTER MAKING COMPETITION 2021



**PRATIBHA
VAISH COLLEGE**



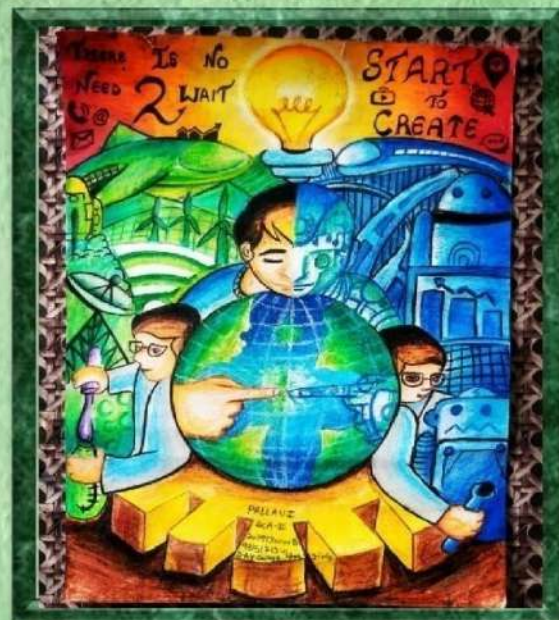
**AJAY CHAUHAN
S.D. COLLEGE**



**JASPREET
S.D. COLLEGE**



**AKASHDEEP
MAHINDRA COLLEGE**



**PALLAVI
D.A.V. COLLEGE**

ONLINE POSTER MAKING COMPETITION 2021



The Department Of Electronics And IT Of Sanatan Dharma College organized an Inter-college Online Poster Making Competition on 10th May, 2021. In which around 90 - 91 students participated and showed their talent and creativity.

Students were given topics like AI (Artificial Intelligence), 5G technology, Technology used in online teaching and many more. The competition was based on technology where students submitted handmade as well as digital posters. Both could be in English or Hindi. Students showed their creativity in an effective manner like they wrote slogans, quotes and added some attractive pictures related to the content that made their poster very attractive and exquisite.

Many students from different colleges like DAV College (Lahore) at Ambala City, CRA

College at Sonipat, Khalsa College at Patiala, GMN College at Ambala Cantt, and many more participated in this competition and showed their nice looking artistic efforts.

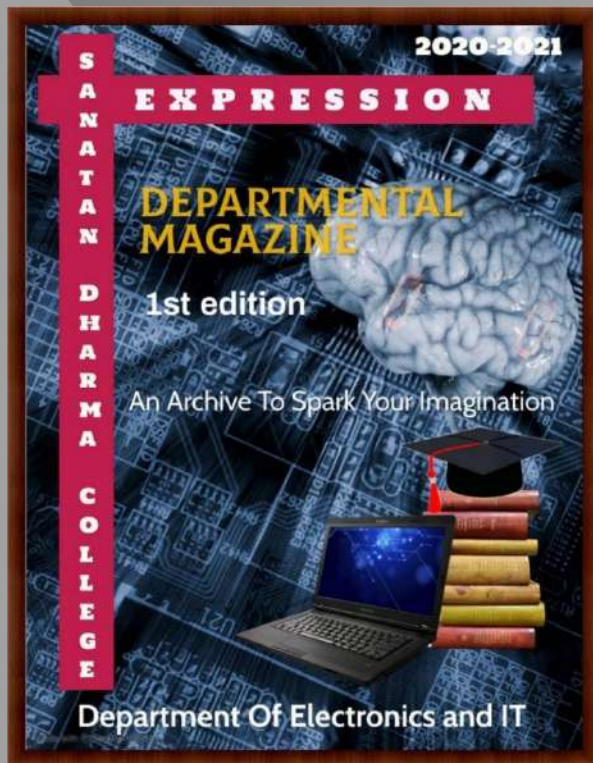
This competition was conducted under the supervision of Dr. Arti (Head of the department) and Ms. Neha Dobriyal (Convener of the event). Dr. Arti advised the participants to be a keen observer and always keep alive the artistic side of life. Every student did an excellent job in this competition but some of the students performed very well and won prizes for their hard work. Pratibha secured first position and received a prize money of Rs.500, Ajay Chauhan and Pallavi both secured second position and received prize money of Rs.400, and Akashdeep Salaria & Jaspreet Singh both secured third position and received prize money of Rs.300. The whole competition was conducted smoothly without any interruption through online mode. This competition gave students an opportunity to express their knowledge in a creative manner and they enjoyed it a lot.

"Mentoring isn't an extracurricular activity it's vital for cultivating an enriching, inclusive community"

Kirti
B.Sc. IT-II

Magazine Cover

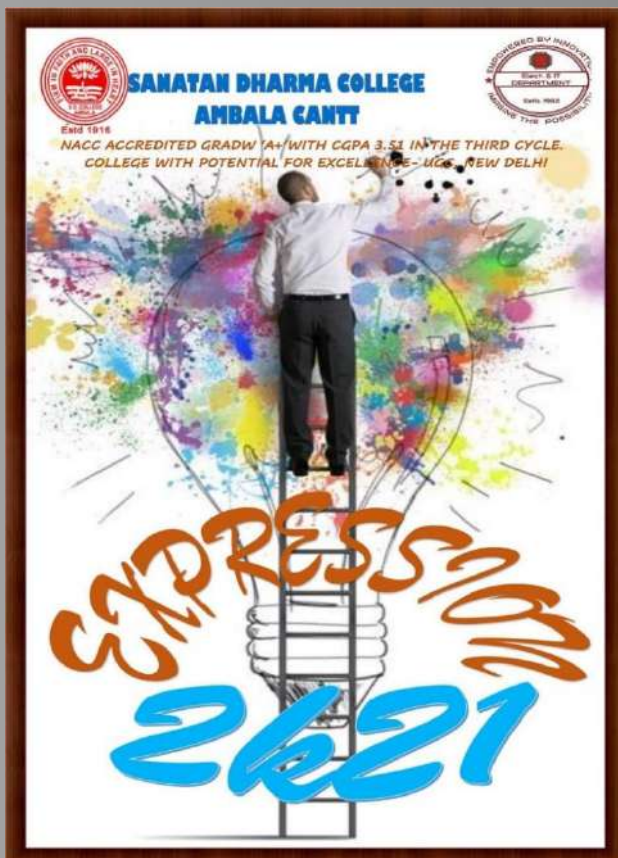
Page Competition



- Muskan
B.Sc. (Hons) IT - III



- Ajay
B.Sc. (Hons) IT - III

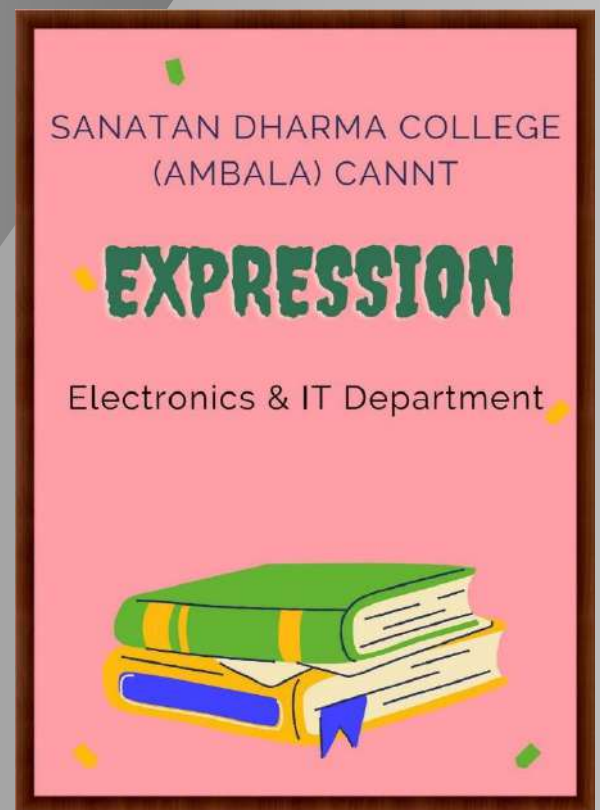


- Dipti
B.Sc. (Electronics) - III

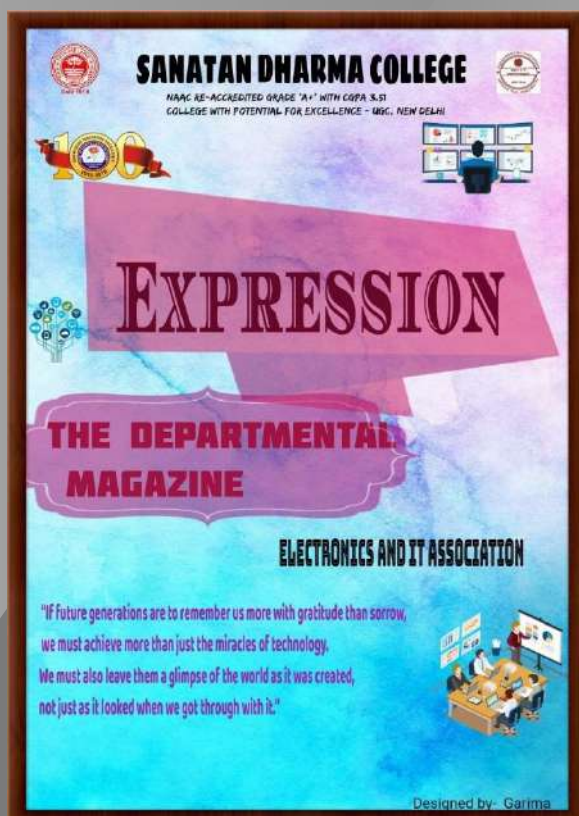
Magazine Cover Page Competition



- Om Chabra
B.Sc. (Computer Science) - I



- Himanshi
B.Sc. (Hons) IT - I



- Garima
B.Sc. (Hons) IT - II

MY FIRST EXPERIENCE IN THE COLLEGE



From the last three days before the event, we were practicing and managing everything with utmost dedication and hard work. Knowing that we need to manage this event along with (without disturbing) our routine classes, sessional and assignments; we worked as a team and the result was up to the mark.

Okay, so the event I aforementioned was a quiz organized by the Electronics and IT Association of our college on 10th June, 2021.

It was an Inter-college KBC Quiz i.e., Kaun Banega Champion. Being one of the Association members, I luckily got the opportunity to work with my seniors for this event. My mentor, Ms. Neha Dobriyal, assigned an anchoring job to me and my senior.

Since I am a keen learner, I love being with people from whom I can gather constructive knowledge. Therefore, I gained and enjoyed working with them. Being a 1st year student, I was not aware much about how an event takes place, on what aspects we need to focus upon. When the first meeting, regarding the quiz took place, we discussed the rules, instructions and the types of questions to be covered in the quiz. For smooth functioning on the final day, our mentor made us play a demo quiz, so that if in case we face any problem regarding registration and joining the quiz, we can untangle it there itself and can guide the participants accordingly. In the next meeting, we were assigned about our roles in the quiz. The President and Vice President of our Association were assigned with all the backend technical work (from registration links for quiz to sending mails for the next round).

The Secretary of our Association was assigned with a collection of content to be covered in the quiz. The Joint Secretary and I were assigned for anchoring. Ms. Neha ma'am was our overall in charge for the event and she, in a serene manner, guided us throughout.

After a break of 2-3 days, I started working on the presentation part with my co-anchor.

Few days before the final quiz, a meeting was again conducted and there we discussed how much work was in progress and under which areas we were facing obstacles. After the meeting, we focused on improving at areas we were weaker with. My co-anchor and I were facing a technical issue with the video's sound and somehow, we solved that. Everything was prepared on our end, from welcome speech to presentation and also, we had practiced virtually 2-3 times that day. Just the day before the final quiz, we had a meeting for a demo quiz, in which we were asked to execute everything assuming it was a final quiz.

There, we got a Surprise cum Shock! The platform on which the participants have to join for the final quiz was changed from Google meet to Cisco Webex because the number of participants were more than 150 and Google meet only allows 100 participants at a time. It came out to be a shock as we were not as familiar and comfortable with Cisco webex than we were with Google meet.

However, we continued with our presentation and speech. There we again met with a problem where I was not able to share my screen, it was getting hanged again and again. The H.O.D. of our Association, Dr. Aarti Ma'am was also there in the meeting. Her quality of being friendly, helping and considerate helped us to remain motivated. She supported us, corrected us and guided us wherever we needed. Her problem-solving ability inspired me the most. In the meeting itself, she solved all our queries and technical issues that we were facing. Due to a network problem at my side, my screen was hanging in between and I was not able to present it properly. Dr. Arti ma'am guided us to do anchoring together at one's place. Fortunately, we came to know that we were residents of the same locality and we decided that I'll be going to my co - anchor's house for the quiz.

The next day i.e., on 10th June, 2021 I went to her house and there we rehearsed together. At 3pm, the quiz was to start; therefore, we joined the final quiz at 2:30 pm and waited for participants to join. Meanwhile, we played soft and relaxing music. At 2:50 pm, we announced a small meditation session of 5-10 mins so that participants may feel less nervous and more focused. At 3 pm sharp, we started the event. I greeted everyone, introduced myself and gave a few lines of welcome speech to Ms. Neha ma'am. Then, she greeted all the participants and welcomed our H.O.D. Dr. Arti ma'am. Afterwards, my co-host, Dipti announced the game instructions and I gave the live demo for joining the quiz via the link provided.

While the participants were playing the quiz, the leader board was being shared with everyone. After the Round 1 of the quiz was over, our team was preparing the results. In the meantime, we engaged our participants in the riddles we created and a short story by Dipti. Every participant really enjoyed the riddles and finally the result was revealed. The great news was that everyone from Round 1 qualified for Round 2.

After the completion of Round 2, we again engaged participants in interesting riddles. After a few minutes, the result of Round 2 was declared and the top 50% scorers were qualified for final Round 3. When we were done with Round 3, I welcomed Dr. Arti ma'am for announcing the winners of KBC Quiz. She congratulated the winners and appreciated the efforts of Association members and Ms. Neha ma'am. After that, I thanked all our participants and the organizing team. At last, The President of our Association addressed everyone through his Vote of Thanks. The event went successful and at the end, we also clicked a virtual group photograph with everyone.

At first, I was a bit nervous but fortunately, everything went perfect.

This quiz gave me insights of how event organization takes place and how we work together as a team. I give my deep thanks to my mentors for always being there with each one of us. My senior Association members also helped me in handling various difficulties that I faced. They never backed out from helping me wherever I got stuck. I cherish each and every part of this quiz, i.e., from preparation, handling nervousness to all the fun I had during anchoring with my senior.

Concluding this, I would like to be part of more such college events in future and would love to learn many more skills from our college seniors. It was indeed a great opportunity that I got and grasped various aspects of cooperation and team spirit that would surely benefit me. And now, when I know the areas I need to rectify, I will try my hard to improve them and give even better results in upcoming events.

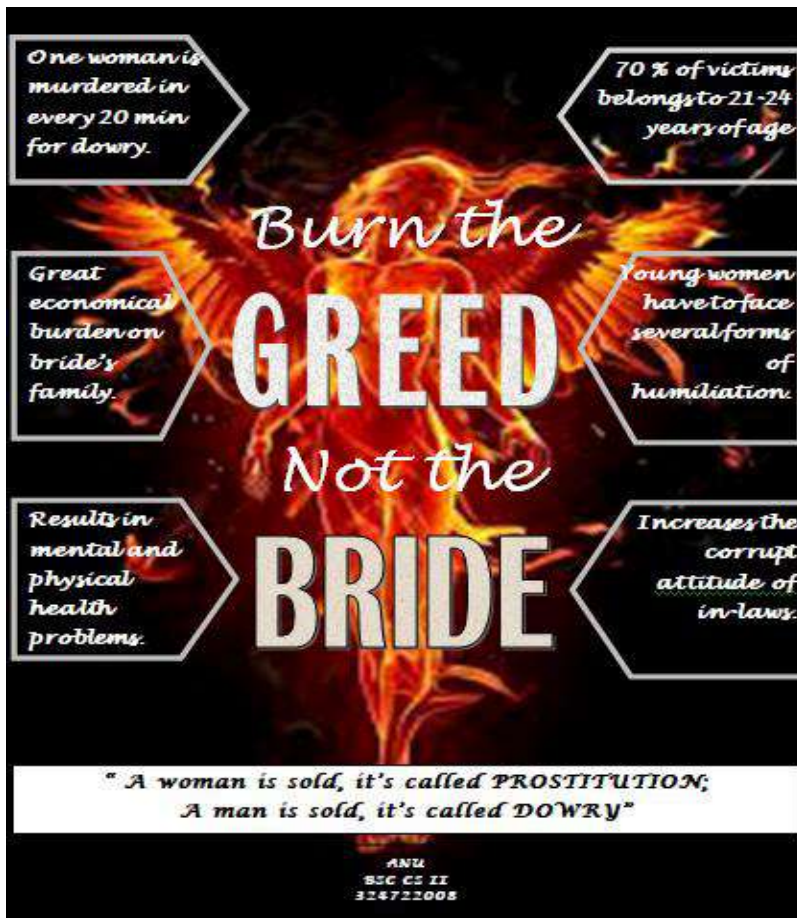
Arpita
B.Sc. (Hons.)-IT

कॉलेज का अनुभव

जून 2018 में सब नए – नए सपनों के साथ दिल में कितनी प्रकार की उमंग को लिए अपने जीवन के नए दौर में प्रवेश कर रहे थे। सब कॉलेज जा रहे थे। उसमें से मैं भी एक अपनी ख्वाहिशों का पिटारा लेकर जिंदगी के नए मोड़ की खुशी में थी। एस. डी. कॉलेज “सपनों का मंदिर”, यहां हम अपने करियर के लिए, उज्ज्वल भविष्य के लिए एक सीढ़ी चढ़ने वाले थे। यहां आकर ढेर सारी यादें संजोईं। यहां हमें भविष्य के लिए बखूबी तैयार किया गया। अध्यापक – अध्यापिका जो माता पिता की तरह हमेशा साथ खड़े रहते, अच्छे-बुरे का परिचय देते, गलती पर डांटते समझाते और अच्छे काम पर भर-भर के शाबाशी देते, पीठ थप थपाते। कितने ही दोस्त बने। दोस्त कहना भी ठीक नहीं परिवार बना, मौज-मस्ती हुई कितने ही समारोह देखे, बहुत आनंद आया। अध्यापकों से कितना प्रोत्साहन मिला, आगे बढ़ने का सबमें हिस्सा लेने का। इस महाविद्यालय के तीन साल में मानो हमने सारी जिंदगी की सबसे अच्छी स्मृतियां समेट ली हैं। हम हंसे, रोए, गुस्सा हुए लेकिन अंत में हम से ज्यादा जोश उत्साह किसी में ना होगा। अलग-अलग स्मृतियों के भागीदार बने कभी नृत्य, कभी गाना, कभी कलाकारी तो कभी कोई प्रतियोगिता, लेकिन इन सबसे महत्वपूर्ण हमारी विद्या जिसे हमने सिर्फ पढ़ा ही नहीं बल्कि खूब अच्छे से समझा और खूब सारा ज्ञान पाया।

सनातन धर्म महाविद्यालय एक ऐसी जगह जहां हमने जीवन की सबसे महत्वपूर्ण और मजेदार स्मृतियां बनाकर एक खूबसूरत जिंदगी जी। इस महाविद्यालय ने हमें परिवार, ज्ञान व खुशी सब दिया। हमने यहां सब कुछ पाया सिवाय गम के।

DOWRY SYSTEM



The Dowry system has been followed in India since a very long time. Our ancestors started this system for valid reasons but now it is leading to issues and problems in the society.

HISTORY OF DOWRY

The Dowry system started even before the British period. In those days, society didnot consider dowry as a "Money" or "Fee" you had to pay to be a bride's parents.

The idea behind the dowry system was to make sure the bride would be financially stable after getting married. The intentions were very clear. The bride's parents used to give money, land, and assets to the bride as a "Gift" to make sure

their daughter will be happy and independent after marriage. But when British rule came into the picture, they restricted women to own any property. Women were not allowed to buy any property, land or assets so the men started owning all the "Gifts" given to the bride by her parents. This rule changed the pure dowry system into a mess! Hence parents of the groom started looking at their bride as a source of income. They started demanding money as a dowry. Parents started hating their daughters and wanted only sons. Women were suppressed since they did not have equal rights as men and since then, the groom's parents follow this rule as a part of their advantage.

WHY SHOULD WE STOP THE DOWRY SYSTEM?

The new dowry system is creating problems in society. Poor parents do not get any groom who will marry their daughter without taking dowry. They have to take "Marriage Loans" to get their daughter married.

Dowry is becoming a nightmare for Women. The cases of infanticide are increasing. Poor parents do not have any other option. They cannot afford to have a girl child, and hence they are intentionally killing infant girls. More than 8,000 women are killed because of Dowry!

It is very clear that Dowry is creating violence. Groom's parents are misusing this pure tradition. And they are not aware that they are misusing it, because they are not educated enough about the traditional dowry system. Everyone is just following the new dowry system blindly.

Dowry is completely injustice with women and does not give women equal status in society. Because of dowry men will always be superior to women. This is creating a mess and negative environment in society.

Under the Dowry Prohibition Act, taking or giving dowry is a crime and completely illegal. If you see someone taking or giving dowry then you can lodge a complaint against them.

At the end the Dowry system is good unless and until it is considered as a gift given to the bride by her parents. If the groom's parents are demanding money to get married as a "Dowry" then that is completely wrong and illegal.

Abhishek Chauhan

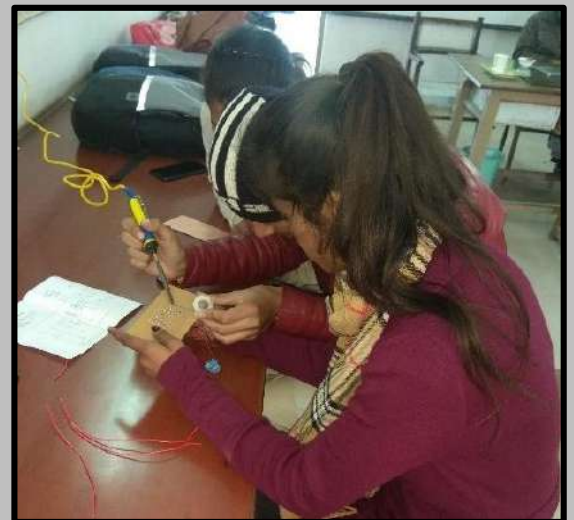
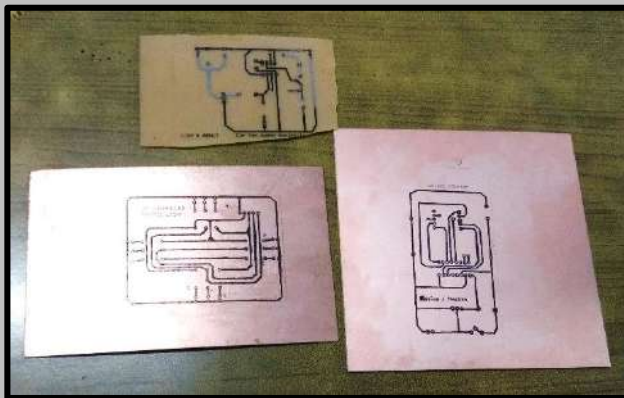
B.Sc. CS-III



Wall Painting *Hues of Imagination!*



Workshop on From Discrete To Assembly: A Hardware Project



CREATIVE CORNER

Arpit B.Sc. IT-II



Dipti B.Sc. Elec-III



Dipti B.Sc. Elec-III



Arpit B.Sc. IT-II

मोहब्बत

पता नहीं अब बदल गया हूं,
या संभल गया हूं।
दिल में कितना भी दर्द हो,
ऊपर से मुस्कुराना सीख गया हूं।
तेरी तस्वीर बना सकता हूं,
तुझ से ना मिले भी तेरा हाल बता सकता हूं।
इतनी ताकत है मेरी मोहब्बत में,
तेरी आंख के आंसू,
अपनी आंखों से बहा सकता हूं।

सक्षम
बीएससी (आईटी)

Reservation is a system that provides advantage to reserved category people in admission eligibility exams, jobs. The reserved category people have to payless examination fee, they have to score less in qualifying exams they have quota in job and in politics. They are getting reservation because they are born in a particular caste.

It was Temporary provision in Constitution to provide reservation for 10 years. Now there are people in India who are economically strong but they are enjoying reservation. Based on provisions in the Indian Constitution, it allows the Indian Government to set reserved quotas or Seats, which lower the qualification needed in exams, job opening etc. for socially and economically backward citizens.

Reservation in India

In today's society, it is the reservation this is the main reason for differences in our society. Even in the minority sections also there are people with good income source. But even then, they were taking the advantage of belonging to the minority section. Then there is no use of saying that reservation is just to help the needy. Many laws, rules and regulations have been enacted to protect rights and privileges of women in India.

Indian Constitution is full of Acts, which ensure equality of women and protect them against discrimination and gender bias but ours is still a male dominated society. Woman reservation is good for development of the society. Unlike earlier days, they stay at home and does some kitchen stuff. These days woman are equally competent and earns equal to that of man. So, woman reservation would definitely help for social development.

At the end I would like to conclude that, reservation should be continued but it should be for only talented people such that everyone will be benefited and justice will be provided. Government should take an initiation of this process. Reservations should be an option but not an opportunity.

Om Chabra
B.Sc. Comp. Sci.-I

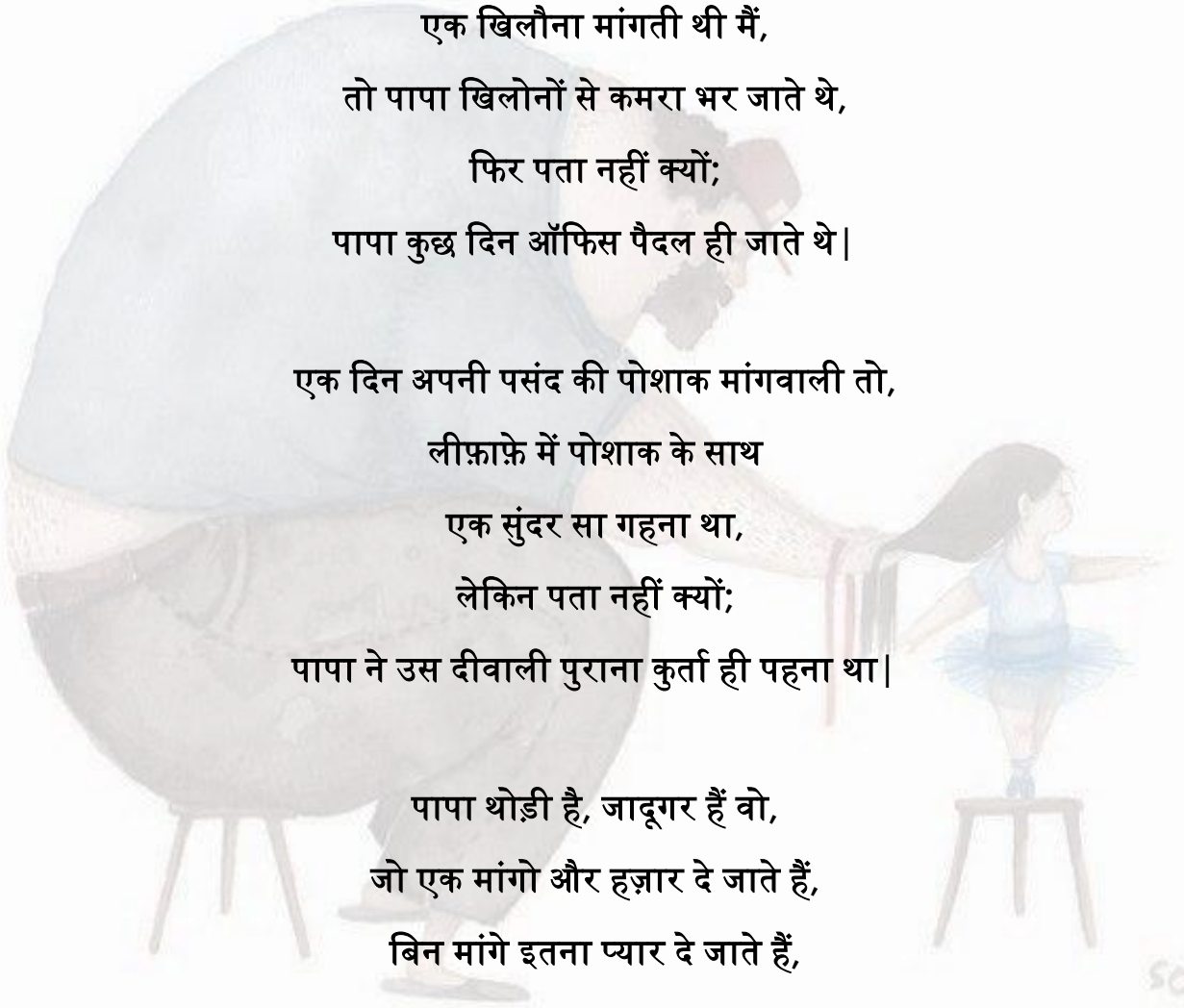
जादूगर

(मेरे पिता को समर्पित एक कविता)

एक खिलौना मांगती थी मैं,
तो पापा खिलोनों से कमरा भर जाते थे,
फिर पता नहीं क्यों;
पापा कुछ दिन ऑफिस पैदल ही जाते थे।

एक दिन अपनी पसंद की पोशाक मांगवाली तो,
लीफ़ाफ़े में पोशाक के साथ
एक सुंदर सा गहना था,
लेकिन पता नहीं क्यों;
पापा ने उस दीवाली पुराना कुर्ता ही पहना था।

पापा थोड़ी है, जादूगर हैं वो,
जो एक मांगो और हज़ार दे जाते हैं,
बिन मांगे इतना प्यार दे जाते हैं,



SOOSH

जिंदगी का कोई मोल नहीं
खुशियां दा कोई रोल नहीं
ठोकरा खाके जेड़ा सिख लेंदा
ओ फेर ना कदे घबरौंदा
यारी दा मोल अनमोल
अस्सी बनाएं ओंनदे बचपन तो
स्कूले बनाए यार सी जो
ग्यारहवीं च आके होए अलग
दो साल बिताए सी जिन्ना नाल
ओह आखिर च आके होए दूर
मिलाया नमा परिवार सबनू
नाम सी जिसका कॉलेज लाइफ
पहला पहला सारे नाल सी हुंदे
हौली हौली हुंदे दूर गए

रहगए चार-पांच खास यार
ओना नू मनाया मैं नवा परिवार
हर सुख-दुख ओना नाल बिताए
याद ओने ओह पल सारे
जो टाइम लेक्चर बंक करके सी गुजारे
किन्ने ही यार बख होए
दिल चो ना इक वी दूर होया
जेड़ा जेड़ा यार बनाया
ओनू ना फेर कदे भुलाया
रब तो हेगी हुन इक अरदास
रहवे सारे खुश मिले सबनू तरक्कीयां
होवे सारेयां दि लंबी उम्र
टाइम ते मिलदे रहन सारे यार
टाइम ते मिलदे रहन सारे यार

Ashwani Yadav

B.Sc. IT-III

Teachers
Day
2019

TEACHERS DAY



Outside Opportunities

"Don't wait for the right opportunity: create it." George Bernard Shaw

Our College not only educate but also focuses on overall development of students. We are always being encouraged by our teachers to participate in various activities both curricular and extracurricular. Our college not only provides opportunities in the college but also encourages us to participate in competitions organized by other colleges. So, we get more exposure to the outside world and learn more. For Inter college competition, our teachers take all the responsibilities regarding student's arrival at the venue (where the competition is to be held). They want us to participate, gain experience and bring laurels to our college. Here is my experience of one such opportunity.

How I decided to participate:

Well aware of my interest towards arts, my mentor Dr. Arti ma'am informed us about an Inter College competition that was to be held in Thapar University, Patiala. She asked me to participate in this Inter-college poster making competition but the competition required a group of two members to participate in it. Therefore, I participated with my friend. Initially, I was refusing because the event was just after 2 days and we had not prepared our poster yet and a major issue was that on the next day we had our sessional exam. Then ma'am encouraged us and suggested that we carry on and make our poster. She discussed with our concerned subject Teacher about taking our sessional exam later. The next day, my friend and I went to our college and chose the topic. Our topic was "The Inventions of Alexander Graham Bell" and our whole day was spent making the poster. After hours of hard work and dedication, our poster was finally completed. Ms. Neha and Dr. Arti ma'am appreciated our efforts and determination.

Day of Departure:

On the day of the final competition, I with my co-teammate and some of my classmates reached Thapar University at around 9:30am and filled the participation form. After done with all the formalities, we headed towards competition area. Big wooden board were placed there for us display our posters. So, I and my friend started pinning our poster on the wooden display board. Then arrived tea and some tasty snacks which we enjoyed having. Arti mam instructed us about how to describe

A lot of students were there who came to participate in the competition. After our preparation, we walked around to see what our competitors had made. Then we clicked a few pictures of other's posters to know and gain new ideas for future events.

Presentation begins:

Few minutes later, the jury arrived to judge our posters and we started presenting our poster to them. Judges asked some questions regarding the poster and we were ready to answer them together, but one of the questions was like: "What is there in any physics exam?" yes, they were asking questions about the principles of invention. Obviously, we didn't know the answer because we thought it's a poster making competition but their questions were different. However, as we decided we won't stop presenting so we gave them answers accordingly. After the presentation, the judges appreciated our efforts. Then, Arti mam came to us and asked about the presentation and we told her about the type of questions that were asked. She said, "I know you gave your best so don't worry even if you did not get any prize but you got a lot of experience which will help you in future" and this motivation cheered us up.

Appetizing lunch and Photography:

Afterwards, we were served with an appetizing lunch in which we had Cottage cheese (Umm... me and my friend's favourite). After having our lunch, we went to meet our classmates. They participated in a model making competition and we enjoyed looking at all the models which were placed there on the tables. After that we clicked a few group pictures with our teacher and friends.

Prize distribution & Returning to Home:

Eventually, the prize distribution began and everyone was moving in a big spacious auditorium. We were sitting there with the hope of winning. But we didn't get any prize and got quite disappointed. Then Arti mam came to us and boosted our morale with her positive words. She made us realize the importance of the experience that we gained from the event. It was a memorable day as apart from gaining a great experience, we had a lot of fun and a good time.

Muskan

B.Sc. IT

How Virtual Reality will change Storytelling and Marketing in the Next Decade?

Virtual Reality is 2020's ground breaking technology which is going to be a new future of the upcoming generation. Besides providing mind-boggling gaming experience, virtual reality opens the doors for a drastic revolution in the field of marketing and storytelling. VR must be used as a new channel of digital media by marketers to have better customer engagement. . Around 75% of the reputed brands have started harnessing the benefits of VR and it has proven to be a poignant and powerful marketing tool for them.

VR helps to build a very engaging connection with the customers as it lets customer mingle with the virtual world very well. Who does not want to explore the depths of another world at their own convenience? As we have already seen in the past how VR gaming has revolutionized the gaming experience and this is the time VR should be incorporated with businesses to increase the number of loyal customers which would reap the benefits in the longer run. Let us look at some case studies where VR has proved to be a game-changer for various businesses.

Case Studies

Storytelling using VR

Storytelling is one of the most effective ways for businesses to connect with their customers. Imagine you are the owner of a factory store and distance is a factor for customers to connect with you. How about a video that would let customers visit your factory store virtually and see the process of your manufacturing of products with this new virtual reality?

Marketing using VR

Forget about the monotonous Facebook posts. Think of real estate agents and car sales people who literally drag people from one property or showroom to another. Virtual reality will let customers experience different cars and properties while sitting at their homes.

Dipti
B.Sc. Elec-III

VISIT TO SCIENCE CITY KAPURTHALA JALANDHAR



BEST OUT OF E-WASTE

BLEND OF INNOVATION & CREATIVITY



SANATAN DHARMA COLLEGE
ELECTRONICS & IT ASSOCIATION
PRESENTS
BEST OUT OF E-WASTE

Instructions :-

- The E-waste material will be provided to you during the competition.
- You may also bring your own material according to your requirements.

For Register
Ajay Chavhan (Vice President)
Vishal Sankar
Saksham

Contact :-
(on Whatsapp only)

Venue :- E-LAB -2
Timings :- 13 FEB ,2020





SANATAN DHARMA COLLEGE

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