

2021-22



ELECTRA

THE MAGAZINE

VOLUME VI

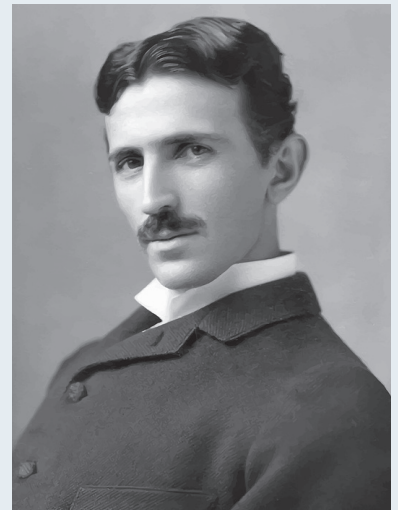


**GALGOTIAS COLLEGE OF
ENGINEERING AND TECHNOLOGY**

**ELECTRICAL & ELECTRONICS
DEPARTMENT**

The day we shall exactly what electricity is will
chronical an event probably greater, more
important than other recorded in the history
of the human race. The time will come when
the comfort, the very existance, perhaps, of
man will depend upon that wonderful agent.

~ *Nikola Tesla*





Editors



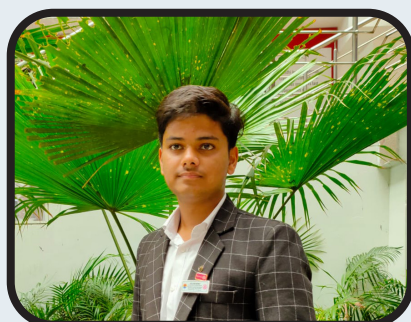
Chief Editor
Dr. A. Ambikapathy
HOD EEE Department



Student Editor
Vaishnavi Srivastava



Student Editor
Uday Varshney

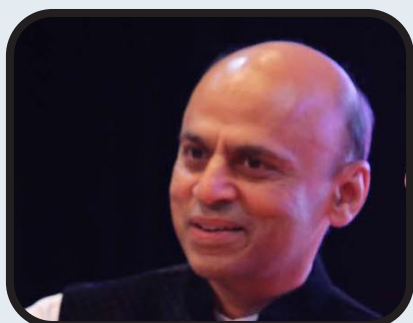


Student Editor
Ritik Varshney





Our Mentors



Mr. Sunil Galgotia



Mr. Dhruv Galgotia



Mr. Brijesh Singh





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Vision

To be recognized as a premier department in producing quality technocrats, innovators, entrepreneurs and researchers contributing to the society ethically.

Mission

- To provide quality education through state-of-art facilities in exploring new ideas and technical challenges.
- To promote research, innovation and entrepreneurship through industry- institute collaboration.
- To inculcate social, ethical and moral values among the students leveraging them to be global engineers .





Programme Objective

The graduates shall be able to:

- Excel in their career by gaining knowledge using modern tools and technologies in the area of Electrical & Electronics Engineering
- Analyze real life problems and produce solutions through their entrepreneurship and innovative skills
- Exhibit ethical attitude, good communication skills and team work in core engineering through professional development and lifelong learning.





From Chief Editor's Pen

Prof. A. Ambikapathy

HOD EEE Department
Galgotia College of Engineering and Technology



I am gratified and it gives me immense pleasure to unveil the Volume-6 of our departmental magazine **ELECTRA** (The Magazine). I am glad to pen for this wonderful magazine as an appreciation of the commendable efforts put forth by the team. I wish that this magazine establishes to be a flint to fire the enthusiasm and excite the minds of the students for many intrusive innovations. Being the HOD, it is an indispensable responsibility to take all those endeavors at its pinnacle and hopefully this magazine will be its epitome. I bestow my heartfelt gratitude to every student and faculty member who made this possible. Through this message, I wish them “All the very Best” for their future endeavours to and hope the students.





From President's Pen

Suryansh Sachan

President

Zion Club of EEE Department
Galgotia College of Engineering and Technology



When I once noticed an ant wandering about on my study table, I simply covered the tiny insect on all four sides with pens and other items I could find around. The ant tried numerous times to discover a way but failed each time. When I eventually freed it, I saw that she was stuck in that small space and wasn't making any effort to leave it. That day, I came to the realisation that you had to be very curious to discover your own strength. We became mired in our own limitations, judgments, and opinions of people who hardly mattered. **ALL BREAK, MY FRIENDS!**

Develop daily, make goals, try new things, and live life to the fullest. keep the negativity and ego far away and be grateful, most importantly, appreciate the situation at hand because that is all you can manage. It goes by faster than you can ever imagine, I assure you.

Zion had many councils in past and many more to see. Alter is the only thing that doesn't change . It is always present; with each new moment, you, your surrounds, and the atoms that make up this world change. It is crucial to accept and embrace the changes But in spite of everything, be true to yourself and remain the constant in your environment.





From Vice-President's Pen

Ojas Saran

Vice-President

Zion Club of EEE Department
Galgotia College of Engineering and Technology



"If you think you are perfect already, then you never will be." Such has been my journey in this institute. Rising from the so-called ranks, I've experienced a lot. It feels wonderful to reach the place which you once admired from the queue. But only after witnessing the responsibility firsthand, I've realised it's the journey which matters the most. The faces you come across, matters. The gains you add to your personality, matters. The learnings you take in your pallet, matters. To my juniors, I would only share one piece of advice, have clarity of thought after exploring. This will help you achieve the greater heights during your professional as well as personal career. Hoping to learn, grow and enjoy the final stint of my tenure with you all.





From Vice-President's Pen

Prakhya Kaushik

Vice-President

Zion Club of EEE Department
Galgotia College of Engineering and Technology



As the Vice President and Joint Secretary of the Marketing of Zion Club of EEE department of Galgotia College of Engineering and Technology during my tenure (2021-2022), we organised events like 'IEEE day' on behalf of IEEE which is an international conference for Electrical and Electronics engineers which included events for the promotion and importance of the same. Later we organised 'Dronavya' which had events for the both the faculty members and students. Further down the road we managed to organise the departmental fest of the college called 'E-tarang' which had various activities both technical and extra-curricular including sports events. In end I want to thank everyone met during my tenure and it was a pleasure to have such an opportunity with respect to both me and the EEE department of the college, hoping that this club continues for the greater good. Had a very good time knowing you all and learning a lot of things from understanding technical skills to understanding teams for efficient working.





From General Secretary's Pen

Shristi

General Secretary

Zion Club of EEE Department
Galgotia College of Engineering and Technology



What motivating message/life message should one give to the juniors in college?

Happy Days!!!

Some moments in life, sounds like a chord on mandolin and life is always full with such moments. But for us as undergraduates it was all reverse. Each moment was full of life at college campus. Each day began with a new life and ended with a new lesson. Fresher's to Farewell, time just went as a dream of sweet early morning. From junior to senior and finally to alumni the 'journey' was very pleasant.

It's always the journey that elates us and not the race. It's always the journey that takes us towards our destination and not the race. Race is just the motion but it's the journey that makes us progress. So my inquisitive juniors never mix race with journey. Enjoy the each moment of your life to the fullest not because it's good or bad but for the simple reason that it will not come again. You can complain because roses have thorns, or you can rejoice because thorns have roses. So is the life. Either you complain about it or enjoy it, but life moves on. It's always today that you cherish tomorrow.

We always wait for future to come and once it comes, we miss our past. I always wanted to be on the other side of my college gate and when the day came I found lots of memories left deep inside there only, which still lingers in my heart. Basking in the sun with friends, discussing the hot topics on cold chilly days; short naps.





From General Secretary's Pen

Pulkit Kushwaha

General Secretary

Zion Club of EEE Department
Galgotia College of Engineering and Technology



Days pass faster than a good night's sleep. You dare to blink, and it's already over. You realise it only when you're feeding your nostalgia while looking at some old pictures of your friends on that trip that finally happened after multiple failed plans, or that doodle you did at the back of your copy when your mind wasn't in the classroom, or feeling that sudden ghost of a vibe that hit you alone at night, reminding you of how this exact place was like a few years ago. We all grow up, or atleast age, and what remains constant is change. It is always there, in every new moment, you are changing, your surroundings are changing, the atoms constituting this world are changing. So, instead of succumbing to the despair of how things aren't the way they were before, it is very important to accept and embrace the changes. Don't shatter down helplessly to the fact that yesterday was the best day of your life, because it was the best of your life yet. Tomorrow would be better. Strive to get out of the cycle of happiness determined by preconditioned standards you gathered from others' perspective. Stay humble, practice gratitude, keep your ego in check and most importantly, enjoy the current moment because that's all you have in your control. Trust me, it passes faster than anything you imagine. Seize the day, be the protagonist of your own story, find your own true self, paint your own Mona Lisa





From Secretary's Pen

Prashant Bhati

Secretary

Zion Club of EEE Department
Galgotia College of Engineering and Technology



The world's power systems are facing a structural change including liberalization of markets and integration of renewable energy sources. This article describes the challenges that lie ahead in this process and points out avenues for overcoming different problems at different scopes, ranging from individual homes to international super-grids. The integration of intermittent energy sources in the power system creates manifold challenges and problems, which have not been overcome yet. Breakthroughs in system design, transport and storage technologies, as well as economic organization are necessary. The distributed nature of renewable generation contradicts the traditional power system structure with large centralized plants. This contradiction opens the discussion whether a new fundamental design is necessary. The intermittent nature of generating supports large-scale systems, whereas decentralised generation suggests switching to smaller-scale systems. We group the different approaches into three categories—local, national, and international—in order to facilitate discussion. Different system granularities' potential and challenges are examined and incorporated into a theoretical framework. As a result, we pinpoint a trade-off between technological and political difficulties based on the scope and system sizes under investigation.





From Secretary's Pen

Niyanta

Secretary

Zion Club of EEE Department
Galgotia College of Engineering and Technology



Every person has different talents and potential, some strive to cultivate it but many do not. For the majority of people, conventional professions and occupations make sense, but certain people push the boundaries of social convention and produce masterpieces. If you put in the necessary effort, you can achieve success in any aspect of life. There are many successful artists, musicians, doctors, entrepreneurs, etc. in the world. Your profession does not determine how prosperous you will be, but your passion can. There are countless ways to define success in life. You might aspire to become the president, a wonderful father, or a tattoo artist. All admirable choices. But it is simple to ask yourself what you desire. Identifying your talents and working for it takes a lot of courage but it always blooms into something beautiful. You can build the home of people's dreams, You can bring sculptures to life, You can capture moments in a reel, You can portray emotions on canvas, You can create melodies that pierce the heart, You are anything but ordinary so don't let the creator in you die an early death stifled by the everyday life.





Kaleidoscope 2021-22

Technozarre



To mark the presence of IEEE day, the Zion Club of Galgotia's college of engineering organized an unforgettable event, Technozarre. They coordinated four competitions namely;

- War of Words, which was a debate battle.
- Paint N' Pour was about showcasing your art talent which included Mandal, Freestyle, Portrait making and much more.
- Cognitare was a technical, reasoning and G.K. quiz.
- The Artsy Lens was all about inconceivable photography.

DRONAVYA



A colorful cultural program was organized by the Zion Club of the EEE department to celebrate Teacher's day and children's day. It was a combined celebration that cherished the beautiful bond shared between teachers and students. This full dhamak event had various mesmerizing singing and dance performances by both teachers and their students, play to teach us the essence of the teacher-student relationship and games to add a thrilling edge to the show. Everyone enjoyed it a lot.

Utsav-e-diyali



On 27th of October, 2021, the official diwali celebration event was held where students have to wear ethnic cloths. The diwali celebration was filled with fun, joy and activities like dancing and singing. Many faculty members actively participated in musical chair, photo booth, and singing competition.

Workshop



Data Science is a multidisciplinary field which uses scientific methods and insights from unstructured data. So to unleash the growing influence of data science in our daily lives, the Zion Club of EEE department along with Coding Blocks organized a webinar on Data Science. Kartik Mathur was the spokesperson who graduated from NSIT.





E-Tarang



The annual departmental fest was organised on 24th of February, 2021. The two day fest filled with events like Chess champs, Tug of war, Volley champs, Badminton, Boogie woogie (dance competition), Sell it to win it, Lamhe - open mic(singing competition), Treasure hunt, Musical chair.

Through Students' Pen



Pain Of Mother Nature

~ Sharad Tiwari

Uplifting consequences
Of human's greed.
Fulfilling by sacrifice
Our every need.
Tolerating all pains
Her children give.
If this mother will collapse
Then who will live.
How long mother nature
Will tolerate us.
And anger bursts
As disasters.
Warning her children
As mothers do.
Sometimes by scolding
And punishment.
We are more curse
Than being boon.
Ascending towards
The ending doom.
We humans are giving
Many pains to her.
She bears them all
With patience of mother.
How grief full mother
Tears full to brim.
The time haven't gone
Remove your sin.
Stop giving pain
And exploiting her.
Oh! run children
Save the mother.

~ Jyoti Kaushik

कुछ से बहुत कुछ पाने को हम सबसे बिछड़ कर आए हैं।
छोड़के अपनी गलियों को हम बड़े सहर में आए हैं।
पापा की गुड़िया है कुछ मम्मी के सहजादे हैं।
इन बड़े शहर की चार दीवारों के बहुत बड़े दरवाजे हैं।
मां पूछती हाल है जब हम हसके अशुक छिपाते हैं।
पापा की याद आए भी तो कहा उनको दर्द बताते हैं।
कुछ खुशियां खरीदने को हम सारी खुशियां छोड़के आए हैं।
छोड़के अपनी गलियों को हम बड़े सहर में आए हैं।
किसी का भी न कोई डर था बहा मां परवाह जो करती थी।
यहां पानी भी फूक कर पीते हैं कोई बीमारी न लगाए।
अपनी खवाइशों को कर काबू में हम थोड़े में काम चलाते हैं।
घर में भला कब पापा किसी चीज की कमी का अहसास दिलाये हैं।
छोड़के अपनी गलियों को हम बड़े सहर में आए हैं।
बहा रात को चैन से सोते थे यहां किताबों में उलझे रहते।
कोन यहां है जसिसे हम अपने दिल की कहते हैं।
रातों को नींद न आए तो कहा मां सर पर हाथ फिराती है।
थक कर आए जब पढ़कर हम तो कहा दादी मां पीठ सहलाती है।
जो खायाने न जाए खाना उसे खाने हम मां का खाना छोड़के आए हैं।
छोड़के अपनी गलियों को हम बड़े सहर में आए हैं।
मेरी हर रात जब मां पापा से बात होती है।
मां चुप रहती हैं सिर्फ उनकी आंख रोती।
कुछ इस तरह मेरे दिन ढल रहे हैं।
मां पापा कहते हैं हम हर वक्त तेरे साथ चल रहे हैं।
छोड़के अपना जहां सारा हम नया संसार बसाने आये हैं।
सब जानते हैं पापा के नाम से हमें हम अपनी पहचान बनाने आए हैं।
छोड़के अपनी गलियों को हम बड़े सहर में आए हैं।





उषा

~ Sharad Tiwari

उषा आज कुछ, सुहानी सी है।
एक नयी अविरोल, कहानी सी है॥

मुस्काते सुमन, भरमर करते गुँजन।
पवन करती अठखेलियाँ, सयानी सी है॥

जलाशय का ये तट, कोई न है निकट।
मीन करती जल में, मनमानी सी है॥

कशमकशी से दूर, देखो तो ये नूर।
छटा अद्भुत ये कुछ, अभिमानी सी है॥

कहूँ क्या मैं कहूँ, लिखूँ क्या मैं लिखूँ।
कुदरत ने क्या खूब, बागबानी की है॥

~ Jyoti Kaushik

ये तेरी चादर जो बखिरी हुई है क्यू ना इसे समेट ले।

जो तेरी खुद की बनाई दुनिया है क्यू ना इसे देखले।

क्यू सोचता है क्या सोचते है सब ,

तेरा दलि क्या सोचता है क्यू ना ये तू सोचले।

ना कर घमंड तू कौन है,

उसको याद रख जसिका तू खून है।

अगर तू चांद है अपनी दुनिया का अपने दाग भी तू देखले।

ये तेरी चादर जो बखिरी हुई है क्यूँ ना इसे समेट ले।

Ankhon Se Aanshu bha jata hai

~ Jyoti Kaushik

Bhawanao ka jab jabar uthne lge khne ko to ho bhut pr hoth ladkhdane lge sabdd kh nhi pate aankhenkh jati hai dil bharta hai jab aanshu bh jate hai jab uuhi kisi se koi baat krni ho khushi ho chahe gham kisi se khni ho khud hi ko jab dil pass betha pata hai to chupchap aankhoin se aanshu bh jata hai dil ki gahraioo me koi abaj dabi ho andhere me chipkr bda shor krti ho Juba pr akr jab koi raj saham jata hai palko ki ked se ik aanshu bh jata hai hr chahre pr jese koi nakab laga ho farishta ahsano k hisab likh rha ho khayalo ki duniya ka jb bharam tut taa hai anjano ko dekh ik anshu bh jata hai thanddi haba jab chahre ko chukr jati hai ik yaad hoto pr muskan lati hai bo lamha adhura sa jab dhl jata hai bhigi nigaahon se ik anshu bh jata hai aanshu bhi nigahoin Dose pyar krte hai dil se aankhoin ka safar kabhi kabar krte hai ankhe jajbat se jab dil pighal jata hai majburan ankhooin se ik anshu bh jata hai mumkin hai dil ka khilkhilana jhoota ho uhi hotho ka muskurana jhoota ho pr bakt beast anshu bebaja nhi ate na smjhe koi to aksr anshu bh jate hai

Painting

~ Md. Nafis

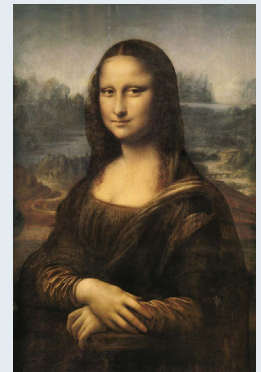
Painting, the expression of ideas and emotions, with the creation of certain aesthetic qualities. In painting, color is very important for emotions and which brush will used at particular points.

HISTORY

The oldest known painting is approximately 40,000 years old and early examples of painting by Neanderthal and prehistoric human have found all over the world. Painting as an art from flourished in India from very early time as is evident from the remains have been discovered in caves, and literary source. Both Hindu and Buddhist literature prefer to painting of various type And techniques for example:

Lepyacitras: represent of folklore

In Eastern India Bengal, Bihar and Orisha during Pala Kingdom 9th-10th century A.D a new kind of painting developed called the miniature painting in this category Buddhist Jain, Hindu manuscript were illustrated on palm leaves.





Artist's Zone



Tripti Trivedi, EEE-B, 2nd year



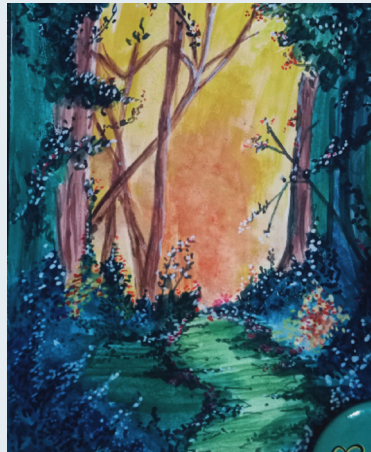
Varnika Saini, EEE-B, 2nd year



Varnika Saini
EEE-B, 2nd year



Anu Verma, EEE-A, 2nd year



Anu Verma, EEE-A, 2nd year



Anu Verma, EEE-A, 2nd year



Anusha Pal, EEE-A, 2nd year



Anu Verma, EEE-A, 2nd year





Through the Lens



Kumar Amarjeet, EEE-A, 4th year



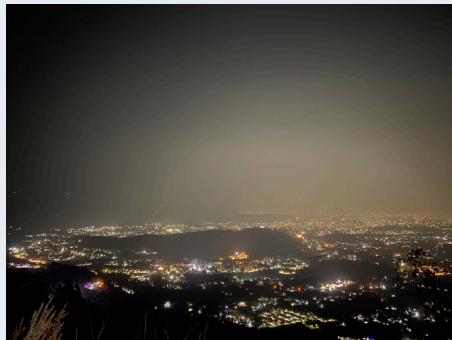
Ankit Raj EEE-A



Ankit Raj EEE-A



Kumar Amarjeet, EEE-A, 4th year



Ankit Raj EEE-A



Aakash Kumar, EEE-A, 2nd year

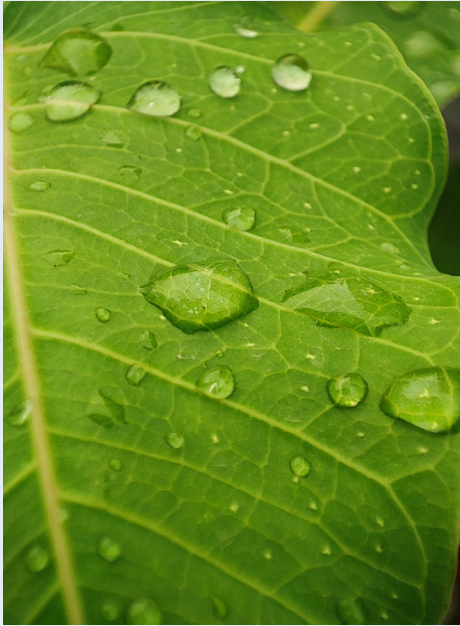


Aakash Kumar, EEE-A, 2nd year



Ankit Raj EEE-A





Kshitij Verma, EEE-A, 2nd year



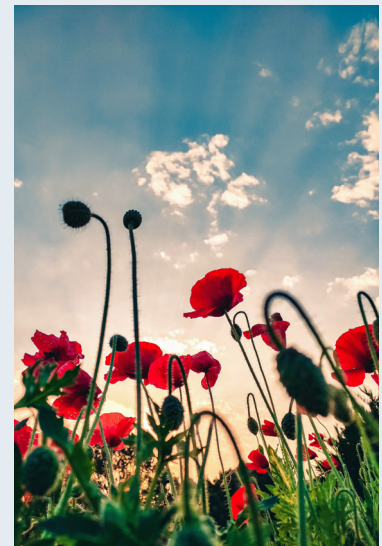
Yashveer Singh Srivastava, EEE-B, 4th year



Rohit Kumar, EEE-B, 2nd year



Aakash Kumar, EEE-A, 2nd year



Aakash Kumar, EEE-A, 2nd year



Aakash Kumar, EEE-A, 2nd year



Aryan Shukla, EEE-A, 2nd year

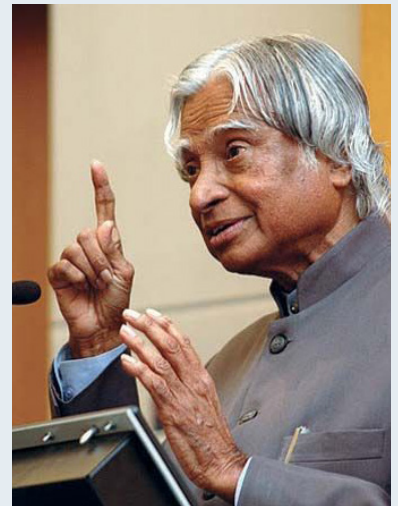


Aakash Kumar, EEE-A, 2nd year



Learning gives creativity. Creativity leads to thinking. Thinking provides knowledge. Knowledge makes you great

~ *Dr. A.P.J. Abdul Kalam*





**GALGOTIAS COLLEGE OF
ENGINEERING AND TECHNOLOGY**

For Queries and Suggestions feel free to contact:

EDITOR I: Vaishnavi Shrivastava
EMAIL: sonu14february@gmail.com
CALL: 9005456785

EDITOR II: Uday Varshney
EMAIL: varshney.uday2001@gmail.com
CALL: 9315053646

EDITOR III: Ritik Varshney
EMAIL: ritikvarshney483@gmail.com
CALL: 8006911311
