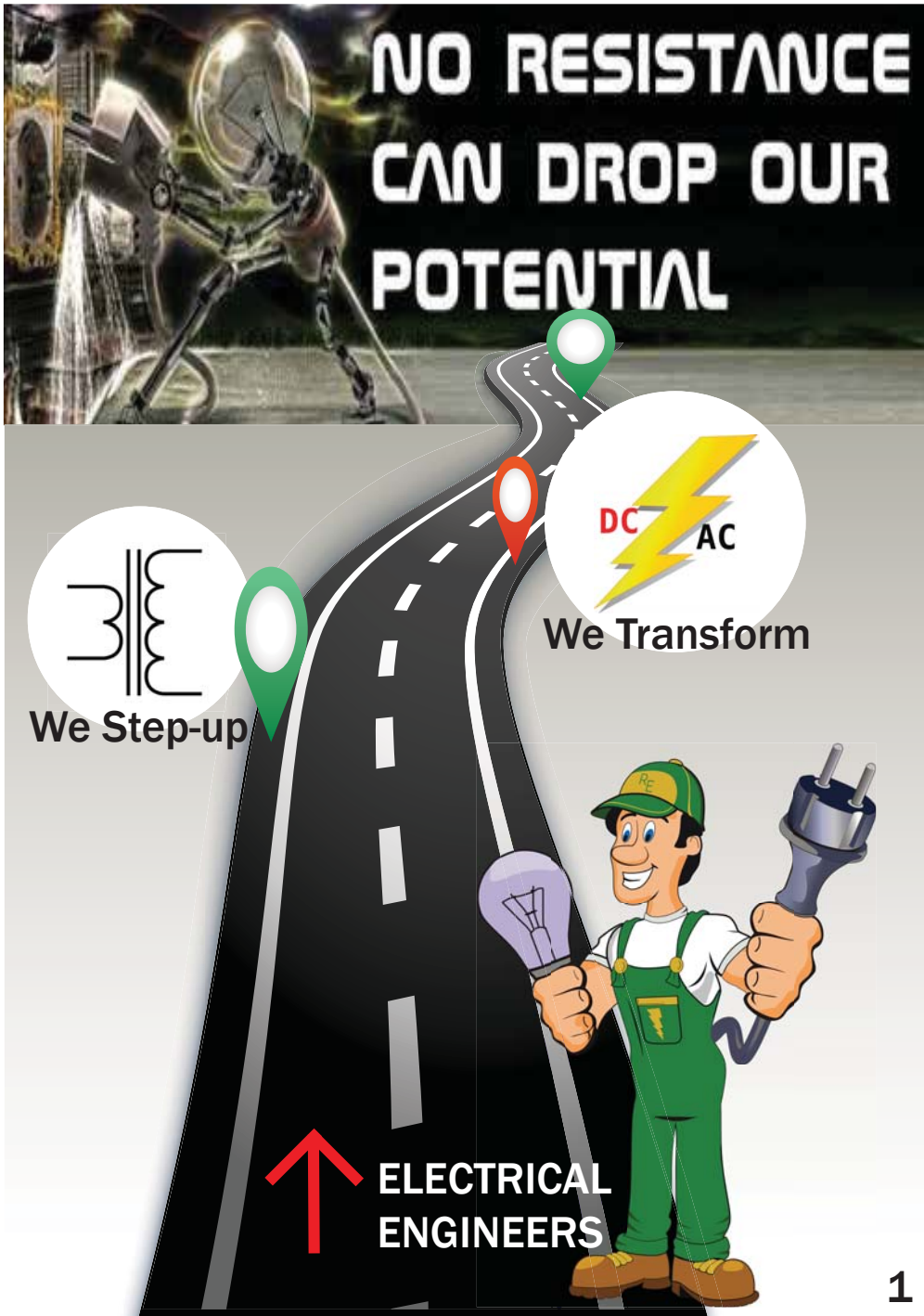


3rd
edition

ELECTRI.CT



WHERE IDEAS FLOW WITHOUT
RESISTANCE



Vision

To Foster Learning Environment for Electrical Engineering Education having High Technical Skills, Ethical Values and Overall Global Competence.



To provide high quality graduate program in Electrical Engineering so that it prepares students for

1. Better Employability, Start-ups and Entrepreneurship.
2. A professional career with essential technical and managerial skills.
3. Collaboration with industries through research and innovation.
4. Other avenues for higher education.
5. Adapting to change in technology and apply the same for the benefits of society at large.



PRINCIPAL's TALK

Technical Education is the backbone of every nation and being the principal of LDCE, I believe that the teachers and students have a responsibility to ensure that every individual has the opportunity to receive high quality education from technical to practical and beyond. Our motive has always been to contribute for sustainable development of the nation through achieving excellence in technical education and research while facilitating transformation of students into responsible citizens and competent professionals. This exclusive departmental magazine is one such platform which will enable the students of electrical department to showcase their talents and exchange technical knowledge among themselves.

Dr. G P Vadodaria

FROM HOD's DESK

Dear Reader,

It gives me immense pleasure to present the third issue of our departmental newsletter "ELECTRI.CT – where ideas flow without resistance". This newsletter is one of the ways in which we can disseminate information on the life in the department. I am proud to mention that our students and faculties are doing the best in academic, co-curricular, extra-curricular as well as research & development activities. Going through the content of this newsletter, you will realize that the previous semester had been a great success for the department. We are constantly focusing on outcome-based education for continuous growth of the department in particular and the institute in general. I would like to congratulate Prof. N V Sinha, Prof. U L Makwana, Prof H N Raval and Prof M R Vasavada who have mentored the enthusiastic team of students. The efforts put on by Sanyukta Lal, Abhishek Ghoniya, Khushi Joshiyara, Shivangi Parmar, Shivani Pandey, Siddhi Shah and Muskan Biala in the publication of this newsletter are worth to appreciate. I extend my warm wishes for the consistent publication of this newsletter. We will be happy to receive feedbacks and suggestions from all the readers.

Dr. M C Chudasama

FACULTYS'



VISION

“Coming together is a beginning, keeping together is progress and working together is success”.

This was the message with which we presented the inaugural issue of Electri.CT. We are so glad that we have lived up to the spirit of our message. We proudly present the third issue of our departmental magazine. In this issue we have covered the department's activities / achievements along with some technical information and also our non-technical section which we hope you will enjoy. We always strive to make our newsletters more than just newsletters by being informative, and also using them as a platform to showcase the multifaceted talent of our students and faculty. Having said that, we are always open to any ideas that will help us improve our newsletter. We would like to thank all the students and faculty who made time to contribute to the newsletter. We appreciate the student editorial team whose zeal and enthusiasm are unparalleled. We hope that you will enjoy reading this issue. Once again, Team Electri.CT values your contribution and looks forward to your continuous support in the coming issues.



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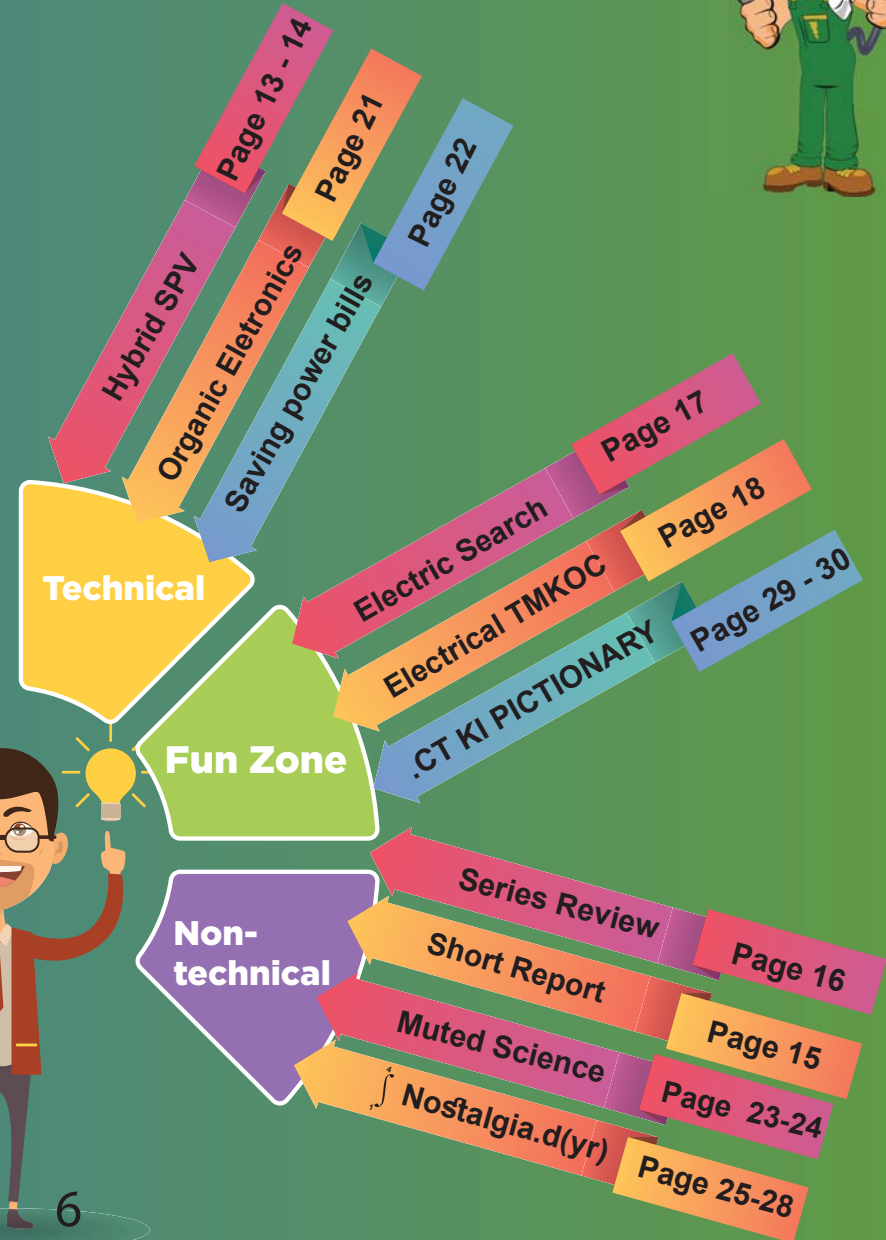


ABHISHEK GHONIYA
Content Editor



SHIVANG PANDYA
Photographer

THE BLUEPRINT



• ACHIEVEMENTS •

kaizen 2k19 UNDER GRADUATE WINNERS

Project Title :- Extent efficiency of bike with Hub motor.

1 Tank keva Imanojbhai 2 Gami Karneliyashbhai 3 Pathar Amit Manubhai

4 Valand Naman Arvindbhai 5 Thakor vipulji Anarji

Guided by: Prof M G Patel

Abstract: Bike was firstly discovered in 1894 by Hilderbrand and Wolfmiiler. But as we are living in 21st century many modifications and updation is required. So our project is based on To gain more efficiency using electronic controlling device and hub motor in bike and to make bike more eco-friendly and efficient for over environment a battery pack and a motor are installed to store and transform the electricity. A user control is usually attached to the handle bar to brake and adjust the speed. Under this abstract definition, a variety of types and styles are available to consumers in the market and still developing.

PG Winner Detail

Project Title: Simulation Of Controlled Switching Of Various Electrical Applications

Prepared by: 170280707031, Sonagra Mehulbhai Ghanshyambhai

Guided by: Prof. V J Upadhyay

Random or uncontrolled switching of Electrical applications like shunt reactors, shunt capacitors, no-load transformer may cause severe transients such as high overvoltage, high inrush currents which may damage the systems equipment. The conventional solution like pre-insertion resistors, damping reactor, arrester are used to eliminate or limit the magnitude and effects of switching transients. This method may be efficient, reliable or not expensive and do treat the root of problem. Transients may eliminate or reduce by controlling this switching instant which known as controlled switching or synchronous switching. Closing or opening of Circuit breaker are delayed in such ways that switching occurs at optimum target. This report describes the optimum switching target for Shunt capacitor bank and Shunt reactor bank. This optimum target depends like star grounded, ungrounded, delta and magnetically coupled load or non-coupled, remanent flux. ATP-EMTP simulation for different configuration of Shunt capacitor bank and Shunt reactor.

ROBOCON

The National DD Robocon 2019 was held at IIT Delhi on 16 th June 2019, where teams from top 26 colleges across the country competed at the National Level. The team from LD College of Engineering, Ahmedabad, Gujarat- ROBOCON LDCE won the Title of National Champions. ROBOCON LDCE represented India at the International level on 25th August 2019, in the city of Ulaanbaatar of Mongolia. Electrical department students Vignesh Sengunthar (sem 7), Muskan Biala & Shivani A Pandey (sem 5) are the members of the ROBOCON team.



HACKATHON

Our dept. Students team (Sem.VII) stood first at Grand Finale of GIH 2019 in small industry problems category. They were Awarded first prize Rs. 50000/- by co-founder of INFOSYS Dr. Krisgopal Krishnan and Honourable Education Minister, Gujarat state Shri. Bhupendrasinh Chudasama Sir at SSIP Annual conference.

Project name - "Auto Recloser ELCB"
Faculty Mentor : Prof. M R Vasavada
Student Team :

Prajapati Jaydip Maheshkumar - 160280109087
Solanki Mohit Devangbhai - 160280109108
Prajapati Jay Rahulbhai - 160280109086
Patel Vishwa Sandip Kumar - 160280109082
Patel Jainishkumar Prakashbhai - 160280109070



SEM TOPPERS



SEM 2
PATOLIYA MAYUR PRAVINBHAI



SEM 4
PANICKER HARSHIDH PRASANNAN



SEM 6
RAUNAK JHA



SEM 8
AMAL NAIR

GATE TOPPERS

Barot Aditya Ashok from Electrical department bagged the all india rank 976.8

FACULTY ACHIEVEMENTS

Dr M C Chudasama

Delivered expert lecture on "Modeling and applications of Thyristor Controlled Series Compensator"
Date- 12-06-2019 , Venue - SVNIT Surat.
"Impedance Estimation Method Using Phasor Under Dynamic Condition", by Pallavi Joshi and Dr M C Chudasama was published in the "Journal of Emerging Technologies and Innovative Research" Volume 6, issue 4, April 2019, ISSN : 2349-5162.

Dr. C D Upadhyay

Delivered expert talk on " Electric Vehicle and its impact on Power Grid"
Venue- Indus University
Delivered expert talk on "Design of Hybrid Electric Vehicles"
Venue- GEC, Bharuch , Date- 09.04.2019
Along with Prof J. K. Chavada has trained 30 students for the Hybrid Electric Vehicles.

Dr U L Makwana

Delivered expert talk on- "Teaching Learning Based Optimization in Electrical power System" in MATLAB training program
Date- 8 th April,2019 , Venue -Room No 209 (LDCE)
Delivered an expert talk on- "Restructuring of Electrical Power System"
Venue- V V P Engineering College, Rajkot

PROF. VIHANG DHOLAKIYA

- Completed MOOC Course on " Introduction to Electric Vehicles-1" of IIT-Delhi on 27.05.2019.
- Attended STTP , on "Hands On Mathematical Modelling and Software Simulation for Power systems and Electrical Machines (HOMSPM)"
Duration-10-20,June ,2019 , Venue- SVNIT Surat

PROF. K B KELA

- Was awarded PhD degree in Electrical Engineering on the Title "Strategies for Reliability Enhancement of Electrical Distribution Systems" in January 2019 by GTU.
- has Published a paper with the title "Reliability Optimization of Electrical Distribution Systems considering Expenditures on Maintenance and Customer Interruptions" in "Indonesian Journal of Electrical Engineering and computer Science", a Scopus indexed journal .

PROF BHAVIK CHAUDHARI

Has successfully been granted the patent on "Optimum Emulator with dynamic Characteristics of wind turbine" on 3 rd June 2019.

Prof. Mitul Patel

has guided students of primary and secondary in boot camp held at Electrical Department on 12.06.2019.

Prof. Mihir Vasavada and Prof. N V Sinha

have attended SSIP Annual International Conference at EDII, Bhat on 13.06.2019



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ACTIVITIES

IEEE

Tirth Mehta, Jeet Dhoriyani & Renison Macwan of Electrical department organised MATLAB Workshop in collaboration with IEEE student chapter under the guidance of Dr. C D Upadhyay from 4 th April to 10 th April 2019



TREE PLANTATION

Electrical department had a massive Tree plantation drive on 17.06.2019. All the staff members and students had put their effort for plantation of 1500 saplings in different locations of the College. Dr. C D Upadhyay and Prof. Hemant Raval played key role in the drive.



NATIONAL CONFERENCE

The 13 th National conference on Indian Energy Sector Titled Synergy with Energy was attended by 15 students and faculty members of electrical departments on 29th Aug 2019 at AMA Ahmedabad.



INDUSTRIAL VISITS

Final year students have taken the Industrial Visit of LO-COSHED Vadodara & ABB Maneja,Vadodara on 16 th & 30 th August 2019. Prof H.N. Raval ,Prof M.R Vasavada ,Prof j.k. Chavda & Prof B.G Chaudhari accompanied the students.



UPCOMING ACTIVITIES

- The NBA (National Board of Accreditation) committee will visit the department on 20 , 21 & 22nd Sept 2019.
- Visit of ERDA(Electrical Research & Development Association)is scheduled on 29 th Sept 2019.
- The college will have its Navratri Celebration in the form of a 2-day event "THANGAAT -EK SATRANGI AAGAAZ" on 4 th & 5 th October 2019.
- Energy conservation Awareness seminar will be organised for the students of electrical department by GEDA (Gujarat Energy Development Agency) on 6 th October 2019.



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SSIP

- Prof. M.R. Vasavada is working as central committee member of SSIP cell of LDCE.
- Prof. Vihang Dholakiya is working as team member of State level SSIP cell at KCG, Ahmedabad. Prof.
- B J Shah, Prof. C D Upadhyay and Prof. M R Vasavada are departmental team members for SSIP work.
- Sneh Kothari of Electrical Department is student coordinator of "AARAMBH" cell under SSIP activity.

sr. no.	Name of Faculty Mentor	Name of Startup	Name of Team Leader	Name of Team member	Contact no. of Team Leader	Total SSIP Fund Sanctioned
1	Prof. Mitul Patel	Compact Powerful electron beam	Shivam Gothi		9409642096	26,000
2	Prof. Mitul Patel	E-AIR	BHUEE PRABHJO SINGH	Aditya vhanesa Jaydip talaviya Ravi Bhavsar	7046961184	70,000
3	Dr.D.D. Trivedi	Generic Mobile Case With Power Bank	Sathvara jay	Shiroya Dhruvin	7600714812	20,000
4	Prof. M.R Vasavada	Auto Recloser ELCB	Jaydip Prajapati	Solanki Mohit Prajapati Jay Patel Vishwa Patel JainishKumar	9429656338	25,000
5	Prof. Mitul Patel	Plugtronics	Prince Dadhaniya	Senta Vishal	8155867648	30,000
6	Dr.M.C Chudasama	Scheduler	Sneh Kothari	Vatsal Mehta	8866816156	85,000
7	Dr.U. L Makwana	Artificial Intellingence vehicle security system	Muskan Biala	Sengunthar Vignesh	8897433508	25,000
8	Prof. N.N Shah	I charge	Dama Hitesh D	Mandali Shubham	7016769282	32,000

BRIEFS ABOUTH THE SANCTIONED PROJECTS

SCHEDULER

The main aim of the project is to forecast any future load as well as pin point the location of the fault in the machine.

Additional features such as creation of maintenance schedule according to machine health and performance is done.

This project will help in improving reliability of critical loads and reduce the frequency of unnecessary maintenance.

COMPACT POWERFUL ELECTRON BEAM

This set-up will produce beam of electrons .This beam is accelerated under high electric field and the magnetic lens focuses it on a very narrow spot. On striking the target, its kinetic energy is converted into heat energy which is sufficient to melt that target. This forms the basic principal of electron gun welding. This is highly accurate and does not require any surface finishing after welding.

ARTIFICIAL INTELLIGENCE VEHICLE SECURITY SYSTEM

The main aim of the project is to ensure the safety of the users to the maximum. The project features include -Vehicle Remote Arm/Disarm Functionality (Vehicle on/off) , Find My Car Functionality, Adaptive Lighting System, Fire detection in Vehicle Cabin & Anti - Collision System (ACS). The users shall get each and every necessary information regarding the vehicle ontheir smartphones with the help of an application.

I CHARGE

The project revolves around the innovative idea of IR based wireless charger.

This can be used for all phones as well as smartphones.

One can charge their device wirelessly at anyplace, anytime with this device.

STARTUP

HYBRID SOLAR PHOTO VOLTAIC SYSTEM

Solar Photo Voltaic (SPV) is an important renewable energy conversion process. Solar radiation is directly converted to electricity using primarily a semiconductor device known as solar cell, sensitized dye, perovskite, etc. Most popular commercial terminology having a market share of close to 90%, uses crystalline silicon as a material. Each solar cell has a typical surface area of 156mm*156mm and produce about 4.5WP power at

Maximum Power Point(MPP) and at Standard Test condition (STC): 1000W/m²,25c and applicable for AM1.5 sun spectrum. SPV system uses a “Solar Inverter” which has all three function; DC to DC, MPPT and DC-AC.

SPV system are mainly classified into two major two sub-groups; off- grid and on-grid. In off-grid system, the electrical power generated is used for electrical appliances connected to the SPV system. In an on-grid system, the electricity generated are pumped into the high voltage grid and send to the local substation for supplementing other sources of electricity used by State Electricity Boards (SEBs) .The off-grid system can be stand alone with or without storage. A grid connected system, which is also known as “Hybrid SPV System”, also uses the grid power as a supplement of electricity generated by SPV.

Hybrid SPV system are useful and more common in typical roof top SPV system. These can be used in variety of application such as household, offices, small factories and educational institution. Such SPV system give saving of electricity bill as well as electricity.

RELATED PROJECTS

HYBRID SOLAR CHARGER:-



<https://www.elprocus.com/hybrid-solar-charger/>

A Day without Electricity

~ Abhishek Ghoniya

July 30, 2012, the day that affected 600million people across 22 states in India, that marked a severe backlash over power companies and other grid layouts. That day a simple circuit breaker on the Bina-Gwalior line tripped. This line that fed into a transmission section caused power failure throughout the grid.

On 31 st July 2012, a relay problem occurred in the power grid near Taj Mahal. This caused numerous power stations to go offline.

Huge power demand was blamed for this and nearly 50% of Indias' population was affected. For instance, 200 miners were trapped just because the lifts lost power supply from the surface, many trains were stopped ,enroute due to supply faiure.

This minor flaw was magnified to a large level, because of reasons which could have been avoided. The crisis arrived in the month of July during the heat hours of the year, that resulted in over consumption of power triggering blackout.

An investigation committee was set up to find the core reason behind the failure and \$400billion plan to revamp the grid was launched. Precautions and other safety measures were ehanced to ensure that no such circumstances arise in future.

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So LONG, WINTER!!

~ Abhishek Ghoniya

In Episode 1 Season2 of Game of Thrones, after the beheading of the noble Ned Stark, Petyr Baelish, the key conspirators exchanged insults- she mocks him of his low birth, he in turn boasts about his knowledge of the intimate relations between the twins, "Prominent families often forget a simple truth I found, Knowledge is Power", she reacted elegantly by ordering the guards to cut his throat, panic shines over Peytr and Cersei stops her men and whispers in his ears, "Power is Power".

The show featured 73 episodes, out of which this short scene was the most revisiting one. GoT is all about Power, its impact and consequences on an individual all over the realm. The show focuses on each and every character, giving importance and jaw-dropping moments, and amongst of all, the character development. Especially women, who at the beginning were the victims of lot of trafficking, but as the show moves on, it seemed like the makers had something else up their sleeve.

The series has attracted worldwide die-hard fans, not just for the quality or content, but it's twist and kill rate is pretty cool. The show taught us to love a character to death, but it would be foolish to presume that it means possession and that, in the times of war, love would get its happy endings. Also, wedding may turn bad for many.

One can argue that "GoT has taken the meaning of spoilers to a differen level !!!"



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ELECTRIC SEARCH

There are 11 electrical units hidden in the box below. Go on the search and try to find all of them.

T	K	O	H	E	R	T	H	P	G	Z	V
E	N	A	K	M	U	S	V	J	W	E	R
S	V	M	O	F	X	P	O	O	W	D	X
L	P	C	J	A	M	D	N	U	L	N	O
A	M	P	E	R	E	J	O	L	H	K	H
P	E	G	K	A	Q	H	Z	E	B	R	M
D	Y	V	P	D	J	L	N	R	S	J	A
Z	B	O	I	F	D	R	A	G	X	U	D
E	O	L	S	K	Y	A	J	F	H	Z	K
W	J	T	I	X	K	G	W	A	B	E	R
A	U	P	M	E	T	E	R	L	I	H	C
T	D	L	K	J	G	F	D	S	A	W	Q
T	X	K	C	O	U	L	O	M	B	T	O



ELECTRICAL TMKOC

The game below relates the characters of TMKOC as electrical elements based on their characteristics. Fill in the blanks on the same basis.



□ □ A □



□ □ R □ □ T

□ □ L □ Y



□ □ M □ R



□ □ E □ □ □ □ C □ □ L



□ □ T □ □ Y



□ E □



□ □ Z □ R



□ □ □ □ C □

□ O □

DISTINGUISHED PASSOUT



KANDARP SHROFF

(Electrical dept ,2018 batch)

When I came to LD, it was a big maze, the roads, the departments, the people everything. Along with studies, I opted to take part in Youth Festivals and other co-curricular activities. As the time passed, the roads, the people, the departments became much more familiar and I used to stay more at college than at my home. We were 6 people to form Dhanak cultural club and went on doing different creations by that. LD has taught me a lot which is hard to learn at any other place.

I started my career in theatre by participating in Xitij Youth festival as an actor. Our team used to perform street plays, parodies and other activities along with the stage plays and skits. The process evoked a writer and director in me and my friends polished my passion towards this art field. Along with theatre, we started making short films and gradually a web series. Even I directed videos for the projects of ADANI and our group DHANAK became the client of ADANI, Apollo CBCC, NSE and other known companies for training their employees. Now, I have chosen Filmmaking as my career and am doing a PG in Film Direction at LV Prasad Film and TV Academy, Chennai.

Link of my works are as below:

A Language I want to learn (Web series)

https://www.youtube.com/playlist?list=PLYB_UOq8sDRIDz_W6U8xGBtm-H10IGfCb

Tahrir (short film)

<https://youtu.be/XSnnFFboZ0k>

Dhanak Humara Naam (short film)

<https://youtu.be/VxJJ2bqdSsk>

Kis Hathkadi Ne (song)

<https://youtu.be/mUmslMvPgA>

My Best Friend's wedding (short film, sketch)

<https://youtu.be/eZpTtdzGsLg>

So dear youngsters sometimes you may go through situations where you may have a self doubt on our work, our vision, our desires, ourselves, but whenever you get stuck in such things, just think that why did you invest so much time and effort in it? When you get the answer to the "WHY", your path will be crystal clear.



CURRENT STUDENTS

DHARMIK TRIVEDI (Sem 7)



- President of DHANAK
- IEEE core member
- Stand up shoot with Divya bhaskar
- 2nd Best actor prize at vinaveli natya rang Competition
- Doing corporate shows of Mimicry

SNEH KOTHARI (Sem 5)



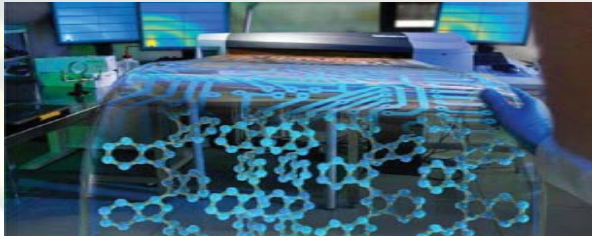
- Completed the MATLAB workshop conducted by IEEE LDCE Student chapter.
- Elected as the Chairperson of AARAMBH - SSIP Cell (under guidance of Prof. Manish Thakker)
- Team Leader of the Machine learning based fault detection and maintenance schedule creator project Scheduler got selected for SSIP funding under phase-4
- Selected for Entrepreneurship Summer camp at IIT-GN for 2 months

KETAN PATIL (Sem 5)



- Ketan Patil was 1 among 10 Google Interns selected from all over the world.
- He had applied for Internship on its Website ' Google Careers ', was fortunate enough to find one and applied for it. First filled a form and then submitted the resume. Then a phonic interview made him get this opportunity.
- Going to France gave him a platform to learn about Marketing and Advertising. Marketing heads from Burger King, Google, Apple, Facebook were there to let them know things about marketing and Gary Vaynerchuk was also there for to make them aware of Digital media and strategies.

Enhancing Efficiency of Organic Electronics: Could Boost Plastic-Based Solar-Cell Efficiency



Most of our everyday electronics are based on inorganic semiconductors, such as silicon. Doping is a crucial process related to its functionality by which impurity is added in to the semiconductor to increase its electrical conductivity. Various components in solar cells and LED screens work due to this.

This doping process is similarly important in organic semiconductors (carbon based semiconductors). After the discovery of electrically conducting plastics and polymers, research and development of organic electronics has accelerated very fast. Organic LED display is one example of this kind. Other applications have yet not been fully realized as organic semiconductors have so far been not sufficient enough.

Doping in organic semiconductors operates through redox reaction. This means that a dopant molecule receives an electron from the semiconductor, increasing the electrical conductivity of the semiconductor. More are the dopant molecules that semiconductor can react with, higher is the conductivity. Of course, it is up to a certain limit, after which it decreases. Currently, the efficiency limit of doped organic semiconductors has been determined by the fact that the dopant molecules have only been able to exchange one electron each.

Double Doping

But now, in an article in the scientific journal Nature Material, some researchers have stated that it is possible to move two electrons to every dopant molecule. Through this double doping process, the semiconductor can become twice as effective.

Initially the research was focussed on studying materials which allowed only one redox reaction per molecule. Later some researcher looked some different type of polymer with lower ionization energy. It was observed that this material allowed the transfer of two electrons to the dopant molecule.

To bring the technologies based on this to the market, many improvements in technologies are required to make it competitive enough. One problem is that polymers simply don't conduct current well enough, therefore, making the doping techniques more effective have long been a focus for achieving better polymer-based electronics.

In OLED displays, the technological development is far enough to make it to the market but for organic solar cells or electronic circuits built of organic material something extra is needed to be one in terms of ability to dope certain components to the same extent as silicon based electronics.

The discovery offers fundamental knowledge and could help thousands of researchers to achieve advances in flexible electronics, bioelectronics, and thermoelectricity. Some researchers are working in several different applied areas, with polymer technology at centre. They are looking into the development of electrically conducting textiles and organic solar cells.

Examples of organic electronics: flexible solar cells, electronic paper and piezoelectric textiles.

Dr. K B Kela
Associate Professor, Electrical Department

HOW TO SAVE POWER BILLS WITH NATURAL SKYLIGHTS??

How much you pay for electricity bills each month? Including China, our country wastes huge energy than any other nation. In 2016, the United States had an energy efficiency of just 42%...that means 58 % of all the energy we produce will be waste .

In the industrial sector, which includes manufacturing, construction, agriculture, accounts, mining, for nearly one-third of all united state. Mainly manufacturing industries are more responsible for spending \$300 billion per year to power facilities and waste nearly 40% of that energy. This will increase a lot of unnecessary energy costs.

Why we need to pay in the day unless we have the option to consume the natural renewable resources to make your manufacturing facility more energy-efficient and less expensive to run. We have to think that we are in a global economy. Surviving is not simply to sustain activity in natural economies but to help the global economy as well.

Environmental effects have also been appearing much more frequently in recent years. It would be tremendous if all this increased coverage was indicative of better education and awareness, but a big part is why the climate and emergency is now so prominently in the news it is because some of its impacts are becoming manifest.

Here are some ways to reduce industrial energy costs on your production floor.

- **Automate entire lighting system by integrating the skylights, and Dimmers.**
- **Save on lighting cost without compromising on the desired lux.**
- **Integrate SkyPipe daylight that inspire people to work at their best.**
- **Common roof opening for skypipe and turbo thus maintaining the strength of the roof.**
- **Ensures effective and uniform light and air circulation.**

We all need to do our minute to battle climate change if we are to have any hope of even putting a dent in its effects. Making up just a few minor changes to our lifestyle enables us all to do our bit for the planet. Companies like Eview Global use any profit they make from searches to power-saving ideas through natural daylight solution, powered by 100% green electricity.

Utilize natural renewable resources to save our global economy which is out of control.

MUTED SCIENCE

Why People Yawn??

You yawn, I yawn, we all yawn. Reading or thinking about it makes you more likely to yawn. (Did you just yawn?) You can even “catch” yawns from other people, and from other animals like dogs. Thanks, biology—but what purpose does yawning serve?

Ideas abound, but none seem to hold up to scientific scrutiny. One is that yawning helps to cool the brain by increasing blood flow to the jaws, neck, and sinuses, and then removing heat from this blood when inhaling a big breath. Counterintuitively, yawning occurs less frequently in hot weather, when air has less ability to cool the body. In short, yawning “fails precisely when we need it”. One hypothesis that has not (yet) been discarded: yawns “serve as a signal for our bodies to perk up, a way of

And why are yawns contagious? A recent study in PLoS ONE suggests they’re way of showing empathy. But another newer study concluded the opposite. So it goes.

Déjà Vu

You’ve probably had this feeling before: As something happens, you feel you’re reliving a past moment. What causes this eerie feeling of déjà vu? In short: No one is certain, but some ideas exist.

One study, which placed people in a virtual computer world, hints that the feeling triggers most frequently when a person encounters a place that’s similar in layout to another place he or she has visited, but doesn’t

consciously recognize. “One reason for the jarring sense that accompanies déjà vu may be the contrast between the sense of newness and the simultaneous sense of oldness—something unfamiliar should not also feel familiar,”. Déjà vu might also come about when the brain improperly encodes a new memory, or when it misfires while establishing a sense of familiarity.

AREA 51(51)

Area 51, secret U.S. Air Force military installation located at Groom Lake in southern Nevada. It is administered by Edwards Air Force Base in southern California. The installation has been the focus of numerous conspiracies involving extraterrestrial life, though its only confirmed use is as a flight testing facility. For years there was speculation about the installation, especially amid growing reports of UFO sightings in the vicinity. Conspiracy theories gained support in the late 1980s, when a man alleging to have worked at the installation claimed that the government was examining recovered alien spacecraft.

On September 20, at 3 am Pacific Daylight Time (3.30 pm IST), some two million people plan — or claim to plan — to storm a US Air Force facility called Area 51. On a Facebook event titled “Storm Area 51, They Can’t Stop All of us”, two million people have clicked “attending” and another 1.4 million have clicked “interested”.

A 38,400-acre facility, Area 51 is in Southern Nevada. Officially known as the Nevada Test and Training Range, Area 51 is part of the Nellis Air Force Base and is used as a training centre for the US Air Force. The name originates from its location of the Nevada map.

Area 51 and conspiracy theories

With the facility shrouded in secrecy, several conspiracy theories have emerged over the years. Several Americans believed it was where the government hid bodies of aliens and UFOs, some believed it was where the government held “meetings” with extraterrestrials, and others speculated it was where the government developed “time travel” technology.

The CIA, according to official documents, has been using the facility since 1955 to develop and test supersonic aircraft and stealth fighter jets. It was only in 2013 that the CIA published declassified documents admitting that the Area 51 is a secret military site. This was following a Freedom of Information request filed in 2005 by Dr Jeffrey T Richelson, a senior fellow at the George Washington University National Security Archive.

A Facebook event on Area 51

As the announcement about the planned storming gained popularity online, the US Air Force issued a statement warning against any attempt to enter the high security premises. “Area 51 is an open training range for the US Air Force, and we would discourage anyone from trying to come into the area where we train American armed forces. The US Air Force always stands ready to protect America and its assets,” said the statement, as quoted by The Washington Post.

It is unlikely that people will be able to enter Area 51, which is heavily guarded round the clock. The airspace above the facility is also out of bounds for civilian aircraft and special permission is required before flying through its airspace.

Those behind the Facebook event, too, have made it clear that they have no intention of entering the facility and it was a mere joke. A pinned post on the Facebook event page now has a clarification: “Hello US government, this is a joke, and I do not actually intend to go ahead with this plan. I just thought it would be funny and get me some thumbs uppies on the internet.”

कभी कभी

कभी कभी मेरे दिल में ख्याल आता है,
कि,
ज़िन्दगी उस uniform में डांट खाते,
lace बांधते,
लाइन में खड़े prayer करते निकल पाती
तो खूबसूरत हो भी सकती थी!
कहानियाँ बनाते, उन सपनों में खो भी सकती थी!
मगर यह हो ना सका
मगर यह हो ना सका !!!
और अब यह वक़्त है,
जहाँ school नहीं college, school की बातें भी नहीं,
बस गुज़र रहा है यह वक़्त
जैसे,
इसे किसी मुसाफिर की खबर ही नहीं!
लेकिन अब college है, नयी बातें नए लोगों का साथ!
नए किस्सों से भर जाएगी डायरी मेरी
इस डायरी को पढ़ मुस्कुराऊँगी,
जानती हूँ ए मेरे दोस्त!
पर यहीं कभी कभी मेरे दिल में ख्याल आता है !!!!!

~शिवानी अ पांडेय

एक साल और हमारा हाल

ना सोचा था कभी कि 1 साल इतनी जल्दी गुज़र जायेगा,
वक़्त कहाँ हमारे लिए यूँ ठहर पायेगा।
हर चेहरा था नया और हमारे लिए अनजान,
फिर भी सोच कर आए थे कि बनानी है इस भीड़ में अपनी पहचान।
हर किसी के दिल में होता था ragging का डर,
क्या पता कब कोनसा senior मिल जाये किधर!
दिन गुज़रते है freshers party आती है,
साथ में ragging का डर उड़ा ले जाती है,
फिर बने दोस्त और शुरू होने लगी बातें,
Starting का ek lecture attend करते और दिन भर
Electrical lawn में गप्पे लड़ाते!
वो nescafe पर बैठकर आते जाते लोगों को ताड़ना,
और हर दोस्त कि plate से थोड़ी थोड़ी Maggie खाना।
यारो से झगड़ना और फिर उन्हें मनाना,
उनकी छोटी सी तकलीफ़ को भी दिल से लगाना,
वो sem end आने पर होश आना और फिर खूब विल्लाना,
और फिर last में अपनी किस्मत BME में आजमाना।
उस time होती है हर दिल में topper बनने कि हसरत,
किताबों से मिलती नहीं किसी को भी फ़र्सत।
वो preparation leave कि पढ़ाई,
और result late आने पर GTU को दुहाई.....
फिर finally result आता है और पूरी हो जाती है "GREEN LINE" की आस,
जो रह जाते है वो re-assesment से करते है उम्मीद और हो जाते है उदास।
अब हम भी हो गए है senior और आ गए है थोड़ा अभिमान,
प्यारे juniors हो जाओ अब सावधान !!!

~ यश व्यास

25

Aage plan kya hai..??

~Shivani A Pandey

she_as_vani



Liked by mitesh_c20 and 80 others

she_as_vani enJEEnering ke 3rd year ke sath ek aisi exam shuru hui...jahan sirf ek hi sawal tha jiska checker toh same lekin marking system bahot saare(unlike gtu) 🤔

Aur sawal tha "Aage plan kya hai?" 😊
Kuch Nahi Likha tha humne!!

Kalamji ,Sandeep maheshwari ,#goodmorning status aur Kuch English authors ke motivation quotes padhne ke bawazood, dusro ko likhte dekha toh 'darr' laga kii kahin late na ho jaaye!!

"Darr ke aage jeet hai" ka toh pata Nahi lekin ab lagraha tha jaise zindagi Puch rahi ho "Darr nahi lagta kya??"

Dudh ke aur mehnga hone se pehle 🍵 aur Bagh 'Bakri' 🐐 ke wapas aane tak per day 3 Chai ☕ aur 2 parle G 🍪 ke sath.. 370 times sochne aur 10,000 plans ko "lay off" Kaine k baad....

Samajh aaya kii,
"Dear Engineering,
You are a Good Question, But your Question hurt me."
Aur maine sheet blank chhod Dii...

Isliye Nahi kii mujhe FAIL hone se darr Nahi lagta lekin isliye kii Iska koi ek jawab Nahi hai mere paas...

Bas..
Abhi ka toh yahi plan hai 3 projects, 6 submissions, 12 pending movies, saade 12 dinn(as TODAY is going to over) main puri karni hai..

So To Juniors,
achche din AAYENGE
apna time AAYEGA is Myth..
Only TODAY is motivation.
Don't wait (...Iron man is dead!!!)
Start Something!!!

Happy Engineer's Day 🎉
For further information regarding Engineering contact me on @she_as_vani (where I rarely login)

@_shi_va_ng_11_
#engineersday #aageplankyahi #thirdyear #darnahilagtakya #chai #parleG #370 #assignments #projects #motivation #movies #Electri.CT(promotion) #bahootkuch

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सफर या SUFFER !?!?

Dear Friend ,

"Which department?" "Electrical sir!"
"Which year?" "one: 3 rd , second:3 rd ,third : 4 th sir"
"And what about you Chashmewale bhai?"
"1 st year sir" (with extreme happiness)
"Ohh...Great"

To,
You, who is reading,
Address of yours.
Date :June 17,2019.

So I used to recollect the smile on others face by saying "1 st year" in the bunch of the people when I got admitted in LDCE. And today 17 /6/2019, I enrolled myself into 4 th year.

(Remark : I am still analysing my diary when 2 nd & 3 rd year came & went.)

"नदी और झरनें कहाँ किसी की सुनते है ?
आसमान कितना भी साफ़ , हमें बादल अच्छे लगते है ।
रहस्यों से भरी शाम में , एक राज़ अपना लाया हूँ
पास आओ तो बताऊँ , मैं 4th year में आया हूँ ।"

Yes ! The last line does not have any kind of relation or logic with the other lines-things-anything. It just habituated to come & to go. But some facts which I must mention here are :

4 th year, where you may not know what to become in your life but you will certainly realize what not to become in life.

4 th year, where BOY GIRL or GIRL GIRL not any kind of relation generation is possible.
BOY BOY GIRL BOY

{In short you can not become single to mingle and vise-versa.}

4 th year , When someone asks : "OMG ! now you are in final year. So how `s the feeling ?"

I do reply with an example. At XYZ reality show a person A said " I have asked my father what was your feeling when you became dad first time, he told me that `dearest son! you will realize it when you will become. It cannot be expressed in words. `"

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So dear reader, yes you .If you are a junior from any discipline then you may understand what I am saying.

Now as a supersenior I have superpower to reject anything/anyone by saying "I don` t have time ,see` . The expectations from home and society automatically increase, though you have done nothing wrong to them. The worst scene starts with the training and placement season. Later or sooner you will be placed, but for a certain period you have to bear and race with the same. You get opportunity to see and interact with such batchmates whom you never faced in the campus. They will also expose their punctuality when mass recruiter company come to campus.

"My uncle-great has big firm in USA so I have no tension regarding placement & all."-You will find this person 1 st in the queue with updated formal wear even when non-core company come. And this is the real fun. Apart from academics a lot of events happen into the small brain. But as an engineer we honestly use only 50% of the working brain. And when this 50% also stops I sit back and fill myself with nostalgia.

~ अरे कल ही तो ACPC में 1500 भरे थे
आज पेनल्टी के साथ इस साल की fees भर रहा हूँ
~ अरे कल ही तो lab टूटने के लिए दो चक्कर लगाए थे
आज पूरा नक्शा साथ है मगर कदम कम बचे है
~ कल ही तो faculty से पहली डांट खाई थी
आज उनके साथ प्रोजेक्ट कर रहे है
~ कल ही तो event successful बनाके गले लगे थे
आज library से लौटते ,वो किस्से गिन रहा हूँ
~ कल ही तो मुझे प्यार से प्यार हुआ था
आज प्यार ही बचा है इकरार नहीं
~ और आज हंसते हंसाते इसलिए जीते है
क्यूंकि कल ऐसा बीता है ,की अब कल की परवाह नहीं

So dear friend ,

As I told you I am happy and healthy here and I hope you will be fine there.I wish I could send money-order but I do use google pay. You please start using it. If you are already are using it , I could not send money as I am not placed yet. Sorry dear and deer. Say "PoK bhi hum le lenge" to uncle aunty and "absurd words" to stupid little Monty. Byeeeeeeeeee Byeeeeeeeeee. See you soon.

~Dharmik

28

.CT KI PICTONARY

The following clues are a hint to the department rooms. decode the clues and find locations



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+



+



=

Now the point where you are standing leads you to 2 places depending of your wish

If you wish to be surrounded by the "Universal Best Friends" Go straight take a right

If you wish to be surrounded by "Your Best Friends" take you turn and Go straight



~library 30



~Lawn 31

Chand pe
hai Apun

**Vikram Lander
Says It Didn't Want
to Answer ISRO's
Call While Parking,
Worried About
New Fine**

