



UPL UNIVERSITY  
OF  
SUSTAINABLE TECHNOLOGY

# CURRENT AFFAIRS

Issue-15

(July 2022-June 2023)

वसुधैव कुटुम्बकम्



भारत 2023 INDIA

ONE EARTH

ONE FAMILY

ONE FUTURE



Department Of Electrical Engineering

Shroff S. R. Rotary Institute of Chemical Technology

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# VISION & MISSION



**To attain global recognition in the field of Electrical Engineering and to provide excellent education and groom the students into competent professionals to take up initiatives for industry and to overcome challenges of society.**



- To impart high quality technical education to produce globally competent Electrical Engineering Professionals.
- To cultivate need based courses to strengthen industry-academia relationships for mutual benefit.
- To give an enabling educational experience through connections with industry and by integration of theory and practice.
- To encourage graduates for lifelong learning, foster teamwork and leadership with Self-learning attitude & professional ethics.

# Message from Provost



## Happy Engineers Day

Engineer Your Victory

**Dr. Shrikant J. Wagh**

**Provost,  
UPL University of  
Sustainable Technology**



# HOD Message



The Electrical Engineering department strives to provide a conducive environment for the students to develop technical, analytical and practical skills and apply them to the real world problems. To motivate the students the department organizes regular training in state of art software & hardware, arranges workshops, expert talks, industrial visits, peer learning and mentor-student meetings. Electrical engineering department is running successfully URJA CLUB and IE (I) student chapter which mainly concentrates in creating awareness regarding Energy Conservation, its importance, available renewable energy alternatives, emerging technologies and recent energy market scenario around the globe for effective energy utilization among the students and staff. The department Newsletter will definitely help to show-case the activities that are happening in our department. It provides a platform for exposing the merits and academic achievements of the faculty and students. This would definitely create an impact in the minds of readers, by way of providing larger visibility and dimension to the department

**Dr. Jalpa Thakkar,**

Head of Electrical Engineering Department- SRICT  
UPL university of Sustainable Technology

# Editorial Message

Dear Readers,

Equanimity, nature, connection, purpose, play and, dare we say it, even woo woo... We are not one for specific resolutions, but there was certainly an energy we were hoping to harness as we woke up on January 1. Stepping into 2023 with our first issue of the year, the message is clear: good vibes only.

With the commencement of new year for UPL University of Sustainable Technology, new dreams, hopes, aspirations and events are also unfolding.

We release this magazine every semester covering the department activities that happens within and outside college campus for the betterment of students and faculty members.

This semester from July to Dec 2022 was with lots of opportunities and we in fact have grabbed those opportunities and ventured into new generation of teaching-learning to continue the regular activities.

We from Department of Electrical Engineering are unstoppable in delivering our best for the benefit of students. We welcome your suggestions in improving this initiatives further upscale.



**Mr. Hiren Jariwala**  
Assistant Professor  
Electrical Engineering



**Mr. Satish Kumar**  
Sem-7 Student  
Electrical Engineering



**Mr. Parthgiri Goswami**  
Sem-6 Student  
Electrical Engineering



# Expert Lecture

Sr. No	Name of Speaker	Designation	Name of Organization	Title of Topic
1	Mr. Shiladiyta Sen	Ex. Sr General Manager,	Relaince Industries Pvt. Ltd, Dahej	Industrial Electrical Safety
2	Mr. Lokesh Kumar	General Manager	ESSAR Heavy Engineering Ltd, Hazira	Electrical Maintenance
3	Dr. B.K Basu	Ex. Chairman	L&T	Campus to Corporate
4	Mr. Himenshu Bhatt	Director	Rahi Engenius Solutions, Surat	Success Mantra for Engineers
5	Mr. Nishant Sharma	Officer	Hikal Limited	Introduction to Industrial Electrical system



# Expert Lecture

Sr. No	Name of Speaker	Designation	Name of Organization	Title of Topic
6	Mr. Vinod Patel	Ex-Manager of Elect. Main.	GRP Reclaim Rubber	Applications to Electrical Machine in Industry
7	Mr. Chintan Jilka	Sr. Engineer	Vraj Engineering	Industry needs for Electrical Engineer
8	Mr. Manish Jaiswar	Project Officer	BEIL	Industry need for Engineers
9	Mr. Krunalsinh Parmar	Senior Engineer	Aesseal India Pvt. Ltd, Pune	Basic of Mechanical Seal
10	Mr. Mahesh Malusare	Trainer	Acumen	How to Prepare for Competitive Exams- GATE, ESE



# Expert Lecture

Sr. No.	Name of Speaker	Designation	Name of Organization	Title of Topic
11	Mr. Nirav Bhatt	Senior Engineer.	Polycab India Ltd.,halol	Electro Mobility
12	Mr. Vinod Patel	Ex-Manager of Electrical Maintenance	GRP Reclaim Rubber	Basics of Electrical Maintenance
13	Mr. Meghrajsinh Parmar,	Plant Manager	Asahi Tennants Pvt LtdDahej	Application of Electrical Drives
14	Mr. Vishal Patel,	Service Engineer,	Avakash Automation	Overview of Electrical Automation
15	Mr. Manish Jaiswar,	Officel, BEIL,	Ankleshwar	Applications of Electrical equipment's in Process Industry

# GLIMPSE OF EXPERT LECTURE





# Industry visit

Date	Name of Organization
30.08.2022	Ni-Tech Automation, Surat
11.11.2022	Solvay Industries, Panoli
30.11.2022	Huebach Colors Pvt Ltd, Ankleshwar
30.08.2022	Viketa Electronics, Ankleshwar
10.11.2022	Jay Khodiyar Electricals, Ankleshwar
30.09.2022	Trimurti Transformers, Ankleshwar
13.12.2022	Krishna Transform Pvt Ltd, Bharuch
14.12.2022	Greeberry Foils Pvt. Ltd, Valia
17.12.2022	Akhil Industries





# Industry visit

Date	Name of Organization
07.03.2023	Agnus lighting system private ltd, Ankleshwar
15.03.2023	GETCO Subststion,kondh
18.04.2023	ERDA,Vadodra
07.03.2023	Agnus lighting system private ltd, Ankleshwar
15.03.2023	GETCO Subststion,kondh
29.04.2023	ERDA,Vadodra
26.05.2023	NTPC,Vindhyachal
26.05.2023	NTPC,Vindhyachal
18.04.2023	ERDA,Vadodra



# PEER LEARNING INITIATIVES



**TOTAL 74  
PLI DELIVERED  
BY  
STUDENTS**





# 1-2-1 Meeting

A one-to-one meeting of Department of Electrical Engineering Semester-VII and V students with honourable president of our University, Mr Ashok Panjwani was organized with the purpose to motivate students to improve their overall academic performance. Students were encouraged to participate in various activities, upgrade their skills and work hard for the upcoming University exam.





Students were motivated to improve their focus towards the study and increase their study hours. Weaker students were also motivated to improve their performance in upcoming exams. Students have appreciated the efforts taken by management for their academic growth.



# SCI-TECHNOVATION

Sci-Technovation, the Annual Fest of UPL University of Sustainable Technology started in 2013 under the banner of Sustainable Technology Mission, aims to promote technology, scientific thinking and innovation among the students. This time UPL University celebrated its Seventh National Level Technical Symposium on 18<sup>th</sup> & 19<sup>th</sup> October 2022.

Total 1703 students participated in around 27 events like Laser Maze, Circuitronix, Chemical Reaction Contraption Context, Chem-O-Live, Envi Mode, Fast & Furious, Brain Bash, Bomb Squad, Drive 2 Death, Junkyard, Shoot a sci, Elemento Ride Fun Zone, Technical Workshops and lot more.



# SCI-TECHNOVATION GLIMPSE





# Parent Teacher Meeting

Parents Teacher Meeting was organized for Department of Electrical Engineering Semester-V & Semester-VII Students on 12.11.2022. The meeting was conducted to discuss students' performance with parents. Suggestions from the parents were also taken for the betterment of students and department.



# Orientation Program of Student Start-up Innovation Cell

An orientation program was arranged for Sem-6, Sem-4 and Sem-2 students of Diploma and Degree engineering on 22<sup>nd</sup> February, 2023. Various policy of SSIP Cell of UPL University was explained in detail. Students were also motivated to take part in upcoming event of Shark-Teen in a month of March.



# Orientation Program for EE Batch 2022

Department of Electrical Engineering has organized an Orientation Program for Electrical Engineering Batch 2022 on 08<sup>th</sup> September 2022, where students were introduced with SRICT, its facilities, Attendance policies, rules & regulations, about Mid Semester Exams, 5S, Agies, Design Engineering, Summer in-plant training, Final year Project, etc.



# One Day Workshop on “Industrial Automation”

Department of Electrical Engineering, in collaboration with Alphatech Automation, Vadodara, organized a one-day hands on workshop on "Industrial Automation" for all Electrical Engineering Students on 29th April, 2023. The focus of training was Introduction of PLC, SCADA, DCS and its demonstration along with hands-on practice through small assignments by students.



# D2D Workshop on “Power System Protection and Relaying ”

Department of Electrical Engineering and Institution of Engineers (IE) India had organised a one day workshop “Modern Power System Protection and Relaying” for diploma students on 15th March, 2023. The students of Valia Polytechnic College and Government Polytechnic Rajpipla had participated in workshop. Students learnt the detailed knowledge of functionality of electromagnetic relays and Numerical relays, different types of configuration parameters in the both types of relays.



# RETROSPECT

Students of Electrical engineering and alumni actively interacted during the event. Alumni professionally engaged in a variety of domains shared their valuable knowledge and expertise with current batch students of electrical engineering to help them to inculcate engineering skills and transformations from the student life on a university campus towards the professional life of a workplace.

Alumni Association  
UPL University

UPL  
Group

UPL UNIVERSITY  
OF  
SUSTAINABLE TECHNOLOGY

Rotary  
Ankleshwar

## RETROSPECT

New Beginning - Endless Possibilities

Episode - 04

### Electrical Engineering Alumni Talks

**PROGRAM OUTLINE:**  
PANEL DISCUSSION  
ALUMNI INTERVIEW  
ALUMNI TALES - JOURNEY

04-02-2023  
03:00 PM to 04:30 PM  
Venue: Seminar Hall-3,  
UPL University

**SHREYA SHAH**  
Engineer, BEIL  
Infrastructure Ltd.  
(Admission Batch 2014)

**MANISH JAISWAR**  
Project Manager, BEIL  
Infrastructure Ltd.  
(Admission Batch 2017)

**MAYUR PAWAR**  
Project Manager, BEIL  
Infrastructure Ltd.  
(Admission Batch 2017)

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# FELICITATIONS!

SR. NO.	Name of the Student	SPI
1	MAULIKKUMAR M. CHAUDHARI	8.86
2	DEV KALPESHKUMAR JOSHI	9.24
3	CHETANBHAI BABUBHAI SARVAIYA	9.29
4	KRUTIKA KIRANBHAI PATEL	9.43
5	RISHIKUMAR K. SOTUA	9.43
6	PRATIKBHAI JANUBHAI PALVE	9.76



# FELICITATIONS!

## Glimpse





# MOU

Memorandum of understanding

Sr. No.	Name of Organization	Activity Under MOU
1	PTS Automation Pvt. Ltd.	Placement Drive
2	Tatvamasi Automation Pvt. Ltd.	Expert Talk
3	Zaveri Electronics	Placement Drive
4	Happy Engineering	Expert Talk
5	Takalkar Power Engineers & Consultants Pvt. Ltd.	03 Student Internship, EL conducted, BOS
6	General-Electro Engineers	In-Plant Training of Sem-3 Student (04)
7	Astek Electricals India Pvt. Ltd.	Expert Talk, Industry Visit
8	Tula Trans Electricals	Expert Talk, Industry Visit
9	Nutanvij Electricals	Placement Drive
10	Alpha Tech Automation	Training Session



# MOU

Memorandum of understanding



# Jobs

## Admission Batch: 2019-23

Sr. No.	Student Name	Company Name	Salary Package (Rs. Lac in Annum)
1	Chaudhari Tejaskumar K.	UPL	5.25 Lac
2	Mali Vilas Yuvraj	UPL	5.25 Lac
3	Patel Dhruvil Babubhai	Saint Gobain	4.08 Lac
4	Ansari Talimhusen Mahammadmustakin	FMC Cheminova	3.8 Lac
5	Vasava Dipakkumar D.	BEIL	3.50 Lac
6	Sharma Narendra M.	BEIL	3.50 Lac
7	Rana Krunalkumar R.	BEIL	3.50 Lac
8	Hansoti Joy Kamleshkumar	LANXESS India Private Limited	3.20 Lac
9	Solanki Dinalbahen Bharatsinh	GFL	3.00 Lac
10	Thaker Priyanshu Sanjay	GFL	3.00 Lac
11	Prajapati Yash Rajendrabhai	Meghmani Ind. Ltd	2.80 Lac
12	Pawar Rahul Vasudev	Ion Exchange	2.80 Lac

# Jobs

## Our Recruiters



# Technical Article

## **CO<sub>2</sub> Flooding System**

*CO<sub>2</sub> flooding system or central bank CO<sub>2</sub> system is one of new age protective systems used in electrical installation. It releases carbon dioxide (CO<sub>2</sub>) in bulk quantity to a protected space (such as generator, motor, panel room, battery room, transformer, etc.) under fire. Smothering action of CO<sub>2</sub> extinguishes the fire thereby preventing spreading of fire to other parts of a plant or installation.*

### **Why CO<sub>2</sub> is used?**

*Carbon dioxide is a fire extinguishing medium used in CO<sub>2</sub> flooding system. It is an effective fire suppression agent applicable to a wide range of fire hazards. It has a high rate of expansion which allows it to work fast. When applied to a fire, CO<sub>2</sub> provides a heavy blanket of gas that reduces the oxygen level to a point where combustion cannot occur. Since carbon dioxide is a gas, there is no clean up associated with a system discharge. CO<sub>2</sub>, a compound of carbon and oxygen, is a colourless gas which cause coughing to occur when inhaled. At higher concentrations it is acutely toxic. Low and high pressure CO<sub>2</sub> is used for the fire protection of machinery spaces, pump rooms, electrical panel room, paint stores and galley exhaust ventilation ducts on board ships.*

There are several advantages for the CO<sub>2</sub> as a fire fighting medium. They are:

- Density is 1.5 times higher than air. So CO<sub>2</sub> settles down and displaces air.
- It can be easily liquefied and bottled.
- 20% – 30% CO<sub>2</sub> concentration extinguishes fire by smothering
- Non- conductor of electricity
- No residues left after application

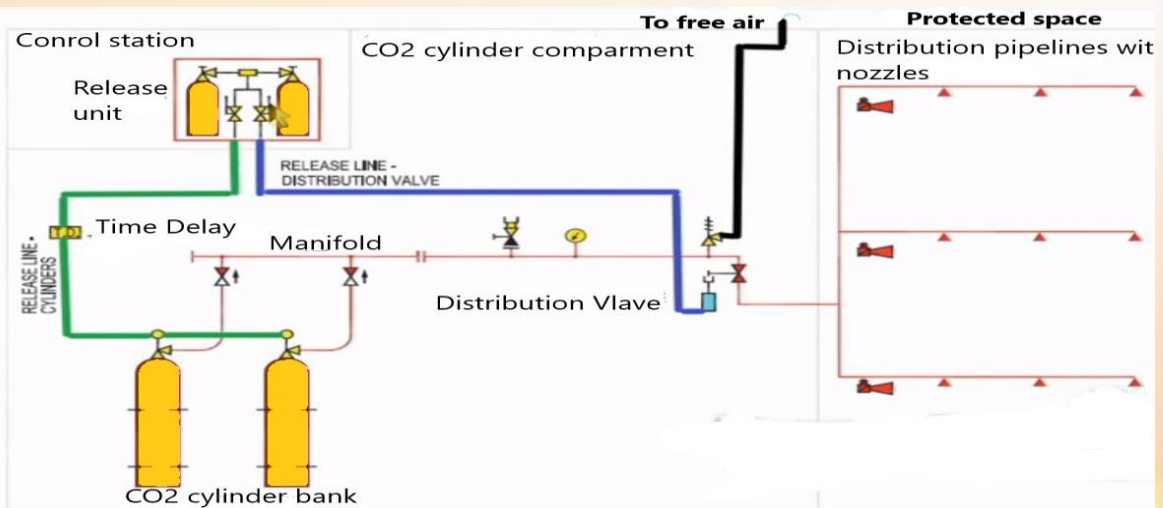
Similarly there are some disadvantages also, such as:

- CO<sub>2</sub> is highly asphyxiating. 9% concentration causes unconsciousness within minutes.
- Very little cooling effect. So there is danger of re-ignition.
- When discharged, solid CO<sub>2</sub> particles present and generate sufficient static electricity to produce spark.

### **Operation:**

CO<sub>2</sub> flooding system floods the protected space under fire with carbon dioxide, which displaces air, thereby removing one leg of fire triangle for the extinction of fire. CO<sub>2</sub> flooding system consist of main CO<sub>2</sub> bottles, common manifold, master valve or distribution valve and distribution pipe lines with nozzles as shown in the figure beloved.

CO<sub>2</sub> cylinder bank contains carbon dioxide in liquid state with a pressure of 56 bar at 20 degree Celsius. CO<sub>2</sub> from the main bottle is released by a 'CO<sub>2</sub> release unit' as shown in the figure.



As soon as the release unit door is opened, a micro switch (a switch in the control unit) is activated. The micro switch will ensure the activation of CO<sub>2</sub> warning alarms and ventilation shut off. The control unit has two pilot CO<sub>2</sub> cylinders having two valves, one to release CO<sub>2</sub> and passes it through non-return valve to turn on pneumatically operated master distribution valve. Other valve in the release unit supplies CO<sub>2</sub> to main CO<sub>2</sub> cylinder bank via time delay unit. Now pressure operated CO<sub>2</sub> cylinder bank valves open and supply CO<sub>2</sub> to manifold through non-return valves. Since the master valve is already open, CO<sub>2</sub> from manifold is released to the protected space through distribution pipe lines and nozzles. Function of time delay unit is to provide time delay of 60 to 90 seconds while supplying CO<sub>2</sub> to main cylinder bank, the reasons for this are:

1. To give sufficient time to any personnel in the protected space to escape after warning alarm.
2. To let main distribution valve completely open.

Yunus Mulla  
B.E. Electrical Engineering (Sem-VI)

# What's in Your Mind...??



Nowadays there is the more demand for electrical engineer due to increase in industry because without an electrical engineer nothing can be done because in every infrastructure there is need of electric equipment which can only be fitted by electrical engineers. Electrical engineers have all the knowledge of latest technology and they work on them and invent new things related that or improve that. In our university or faculty is so good in this sector because they provide expert lecture, industry visits and many more facility related this like SSIP which is nothing but startup program which can help student to understand the new concepts related to latest technology or to improve the latest technology.

In our institute there is many safety features like CCTV at every corners and have the facility of fire protection also so there no fear of the fire or any other things. And all the wiring in the college is underground so there will no problems of the overhead wiring and has no chances o shock to any student so I like this facility and ik feel safe to go around the college. Atlas I want to thanks to my faculty to support me and help to study best all over.

Rishi Sotua  
B. E. Electrical Sem.-4

# What's in Your Mind...??



Electrical engineering is a practical discipline with a plethora of great career opportunities. Electrical engineers can work in research and development industries, engineering services firms, manufacturing, government, and tech. Relevant industries include automotive manufacturing, aerospace, defense, consumer electronics, commercial construction, computing, and tele-communications. In SRICT, the electrical department is one of the best department because all the faculty members are not only focused on the growth of the student but also they provide various activities like expert lecture, industrial visits every semester.

Our Institute organized fire and safety course is compulsory not only for the electrical department but for all the departments. Our department having all types of facilities like digital classrooms, various labs like high voltage lab, power system lab, simulation lab and machine lab etc. Our Institute is providing good infrastructure & facilities

**Prachi Prajapati**  
**B. E. Electrical Semester-6**

# What's in Your Mind...??



Electrical engineers apply the principles of electricity, electronics, and electromagnetism to develop electrical products and systems. They perform risk assessments and ensure compliance with safety standards and electrical engineering codes. They also conduct research to create new applications. In UPL University, curriculum is thoughtfully designed to cover all aspects of electrical engineering and they prepare us as per industry needs. The faculty members are knowledgeable and passionate about their fields, and they have always been approachable and supportive of our academic pursuits. Modern and well-equipped laboratories have provided us with valuable hands-on experience, and access to software and simulation tools has been invaluable in our learning process.

Furthermore, department has provided numerous opportunities for us to participate in research projects and internships in leading companies in the field. These experiences have helped us to develop valuable skills, gain industry insights, and form professional connections that will serve us well in our future careers.

**Dhruvil Patel**  
**B. E. Electrical Semester-8**

# Alumni Speak



I am writing to express my heartfelt thanks for the education and opportunities that I received during my time as a student at institution. As I prepare to embark on the next chapter of my life, I cannot help but reflect on the incredible experiences and memories that I have gained as a student at **SRICT**.

From the moment I stepped onto campus, I was welcomed with open arms and provided with all of the support and resources necessary to succeed. The faculty and staff were knowledgeable, approachable, and dedicated to helping students reach their full potential. I am truly grateful for all of the time, energy, and expertise that they invested in me.

The coursework was rigorous and challenging, but also engaging and rewarding. I was impressed with the breadth and depth of the curriculum, and felt that it provided me with a solid foundation in engineering principles and practices. I also appreciated the numerous opportunities for hands-on learning, which allowed me to apply what I had learned in the classroom to real-world problems.

Finally, I want to thank **SRICT** for the various extracurricular activities, clubs, and events that were available to students. These opportunities allowed me to connect with my peers, develop leadership skills, and explore my interests outside of the classroom.

Overall, my experience as a student at **SRICT** was truly transformative, and I will always cherish the memories and relationships that I gained during my time there. Even after 3 years of completing my education I got so much help from the faculties and management for my career and further studies for which I am so much thankful to **SRICT**.



**Nirav Patel**  
**Alumni Batch 2016**

# Alumni Speak



"I remember when I was entering my first year of university, I was extremely excited but at the same time extremely nervous. Reflecting on the whole experience now, I would encourage incoming students to recognize that like anything in life, you'll face both ups and downs throughout your university experience. The important thing to remember is to always try your best and not let the instances where you may have fallen short hold you back from continuing to work hard and reach your full potential. Speaking more specifically about **SRICT**, it is a massively rich campus with both great people and amazing opportunities. Take these next few years to really make the most of it."



**Anil Sahu**  
Alumni Batch 2017

# Alumni Speak



College is one of the memorable parts of a student's life whether it was about friends, professors or growth of life. I have been introvert and no knowledge about the electrical studies before entering the college as I was from a small town it was a whole new experience for me. My growth started from my college life and it would not be possible without these professors who are masters of their field. I have so many memories with every professor and those days I count as best days of my life. The list will go on and on of names and memories and I still miss those laughter moments in every lecture.

I am blessed to be part of SRICT and how it changes my life in every term.

Wherever I am today is just because of the guidance of my professors and I will never forget their lessons in my life. Lectures, canteen moments to events in the college I found them all as part of memories which I will cherish always. Thank you SRICT and Management department for those 3 best years of my life.



**Manish Jaiswar**  
**Alumni Batch 2017**

# Students achievements



**Best Student of the Year Award  
2022-23**



**Ms. Dinal Solanki  
Best Student of the Year of UPL University**



## STAR of SRICT Award 2022-23



Ms. Binita Tailor (2013-17)  
**STAR of SRICT Award (Silver Award Winner)**





# Poetry

In labs of steel and circuits bright,  
Where engineers work day and night,  
The future's built with minds so keen,  
A world transformed, a grand machine.

Each piece of metal, wire and code,  
Is crafted with a skilled abode,  
And every calculation made,  
To solve the problems that pervade.

From bridges spanning chasms deep,  
To skyscrapers that seem to leap,  
From cars that move with lightning speed,  
To robots meeting every need.

The engineers design and build,  
Creating marvels that fulfill,  
The hopes and dreams of all mankind,  
A better world they aim to find.

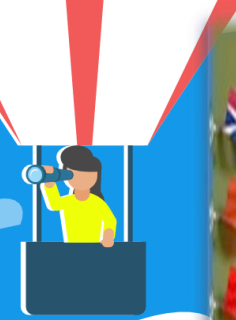
And in their work they find great joy,  
Creating wonders to employ,  
Their minds and hands in perfect sync,  
Creating worlds we all can think.

So let us celebrate their art,  
These engineers who play a part,  
In shaping all that we hold dear,  
With innovations year after year.

Satish Kumar  
BE Electrical 6<sup>th</sup>sem

# STUDENT CORNER

DISCOVER NEW OPPORTUNITIES



# PHOTOGRAPHY



# STUDENT CORNER

DISCOVER NEW OPPORTUNITIES

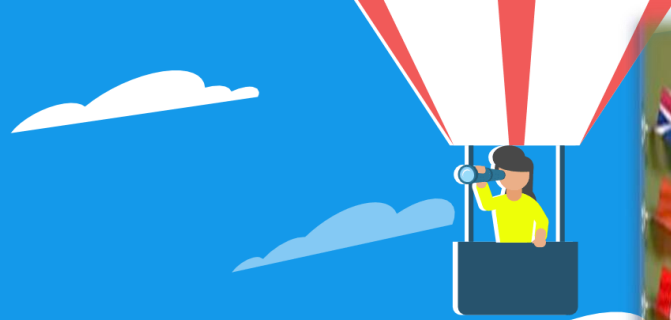


# PHOTOGRAPHY

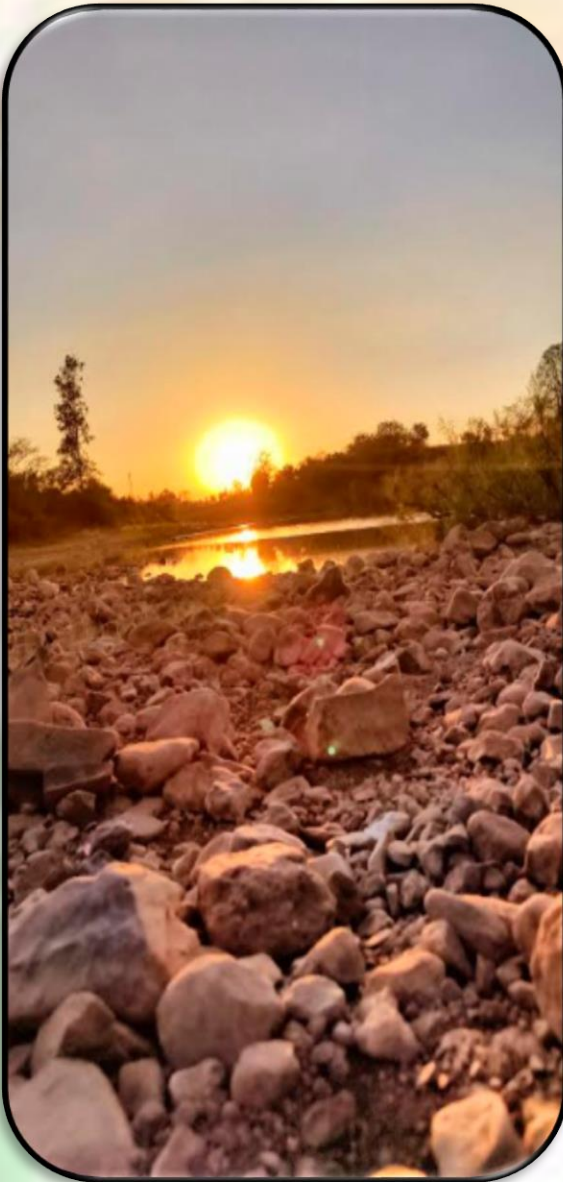


# STUDENT CORNER

DISCOVER NEW OPPORTUNITIES



# PHOTOGRAPHY



- Anand Patel (Semester 4 BE)

# Meet Your **TEACHER**



**Dr. Jalpa  
Thakkar  
(HOD)**



**Mr. Praful  
Chudasama**  
Assistant Prof.



**Mr. Sourav  
Choubey**  
Assistant Prof.



**Mr. Hiren  
Jariwala**  
Assistant Prof.



**Ms. Richa  
Dubey**  
Assistant Prof.



**Mr. Jignesh  
Joshi**  
Assistant Prof.



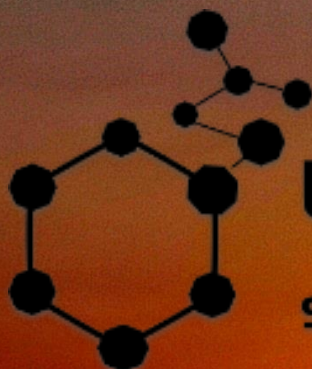
**Mr. Krunal  
Shah**  
Assistant Prof.



**Mr. Ankur  
Gheewala**  
Assistant Prof.



**Mr. Hiten  
Mistry**  
Assistant Prof.



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