UPL UNIVERSITY
OF
SUSTAINABLE TECHNOLOGY

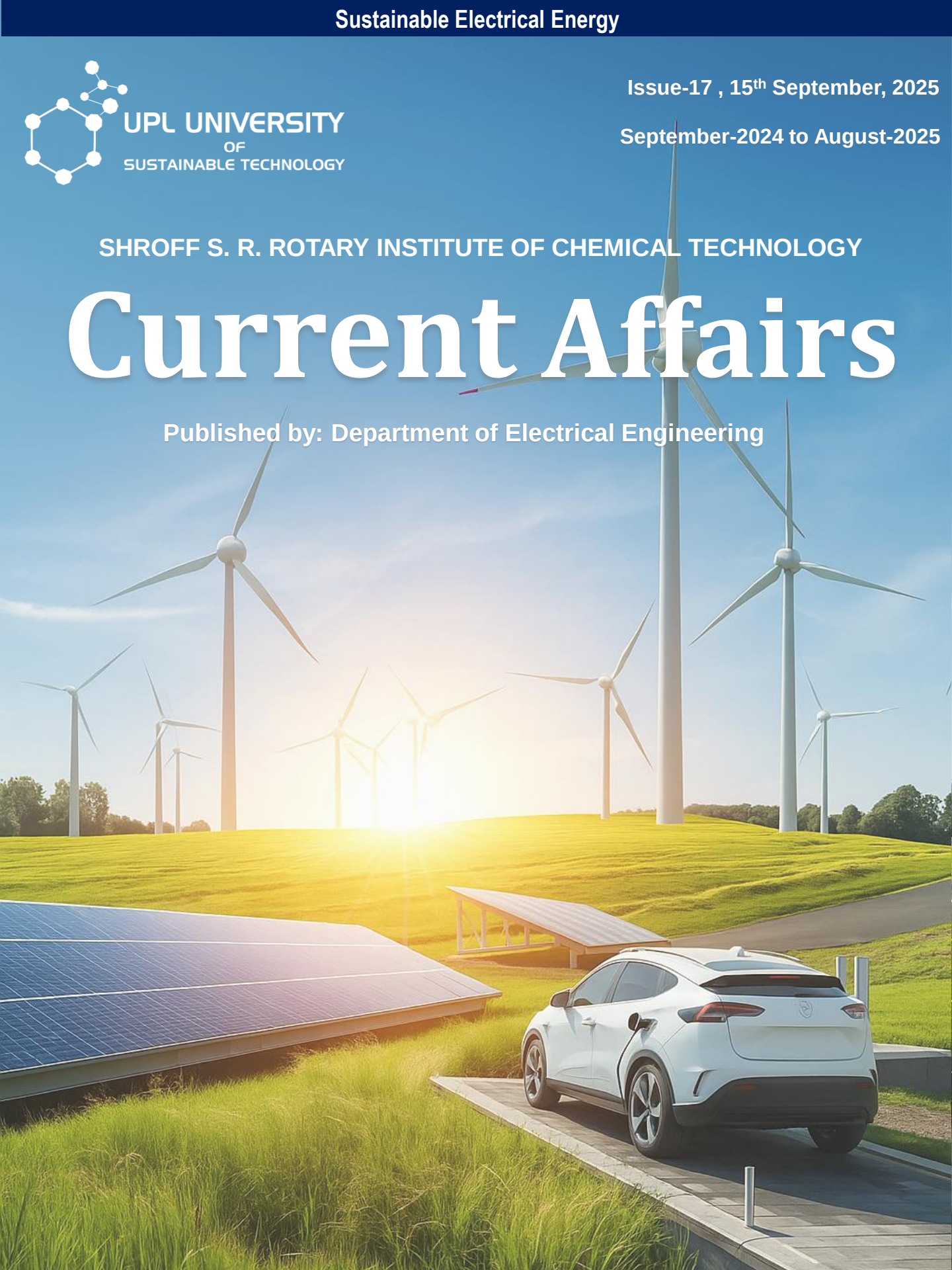
Issue-17 , 15th September, 2025

September-2024 to August-2025

SHROFF S. R. ROTARY INSTITUTE OF CHEMICAL TECHNOLOGY

Current Affairs

Published by: Department of Electrical Engineering



Content of the Issue

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Message from Provost

"From circuits to cities —
Engineers power the world sustainably."

“A Step Towards Sustainable Electricity”
250 KW Solar Energy System Installed at UPL University of Sustainable Technology

HAPPY ENGINEERS DAY

Dr. Shrikant J. Wagh
Provost, UPL University of Sustainable Technology

HOD Message

On the occasion of Engineers' Day, we pay tribute to the visionary engineer Bharat Ratna Sir M. Visvesvaraya, whose dedication and innovation continue to inspire generations. It is a day to not only honor his legacy but also to reflect on the role of engineers in addressing the most pressing challenges of our time.

This year, our departmental magazine embraces the theme of "**Sustainable Electrical Energy**"—a subject that lies at the heart of global efforts toward a cleaner, greener, and more equitable future. As electrical engineers, we are uniquely positioned to lead the transition from conventional energy systems to sustainable alternatives that balance technological advancement with environmental responsibility.

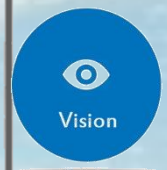
I am proud to witness the enthusiasm and commitment of our students and faculty who are actively contributing to this movement—whether through curriculum inline to current needs, innovative projects, research publications, or community outreach. This magazine reflects that spirit, showcasing activities, insights, and inspirations that highlight our department's engagement.

Let us continue to collaborate, create, and contribute toward building an energy-secure and sustainable future for all.

Wishing you all a thoughtful and inspiring Engineers' Day.

Dr. Jalpa Thakkar,
Head and Associate Professor,
Department of Electrical Engineering,
UPL university of Sustainable Technology

Vision and Mission



To attain global recognition in the field of Electrical Engineering and to provide excellent education for grooming students as competent professionals to take leadership positions in industry and come out with solutions for society challenges.

- To impart high quality technical education to produce globally competent & professional electrical engineers.
- To develop need based courses to strengthen industry - academia relationships for mutual benefit.
- To provide educational experience through connections with industry with strong emphasis on integration of theory and practice.
- To encourage graduates for lifelong learning, foster teamwork and leadership with professional ethics.

Editorial Message

Mr. Ankur Gheewala
Assistant Professor
Electrical Engineering

Mr. Shahid Khan
Sem-5 Student
Electrical Engineering

Dear Readers,

As we step into a last quarter of the year 2025 at **UPL University of Sustainable Technology**, we are filled with renewed aspirations, hopes, and opportunities. The beginning of this year marks not only the continuation of our journey but also the unfolding of new dreams and initiatives aimed at academic and professional growth.

The Department of Electrical Engineering is pleased to present this semester's edition of our magazine, which serves as a platform to highlight the diverse activities and accomplishments within and beyond the campus. Each issue is dedicated to showcasing the collective efforts of our faculty and students toward excellence in teaching, learning, and innovation.

The academic session from **September 2024 to August 2025** has been a period of immense opportunity. We have embraced these opportunities by exploring new dimensions in teaching–learning methodologies while continuing our regular academic and co-curricular activities with dedication.

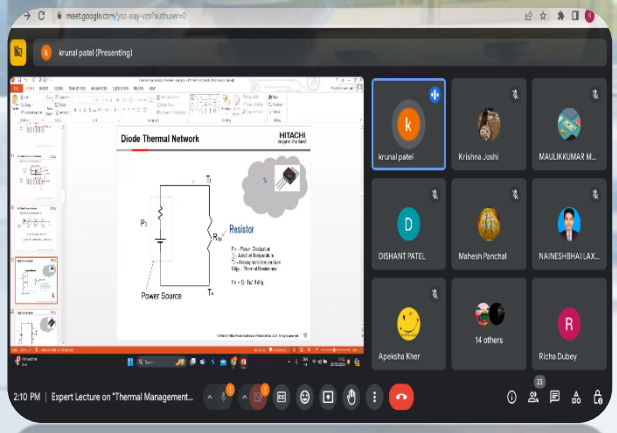
Our department remains steadfast and committed to delivering the best for the benefit of our students. We sincerely welcome your valuable suggestions, which will help us further enhance this initiative and elevate it to greater heights.

With warm regards,
Department of Electrical Engineering

1. Expert Lectures

Sr. No.	Name of Expert	Title	Execution Date
1	Mr. Keval Velani, Project Manager,Hitachi	Electrical Drives in Industry	04/09/2024
2.	Mr. Chirag Nandha , Alpha Tech Automation, Vadodara	Industrial Automation using PLC and SCADA	08/10/2024
3.	Mr. Murtaza Railwaywala, Physcologist, SPARSH Foundation	Mental Peace Awareness	15/10/2024
4.	Mr. Chirag Nandha, Project Manager, Alpha Tech Vadodara	Introduction to SCADA	28/02/2025
5.	Mr. Kevadiya Ketan, Production Manager, UPL	Production Management in Industries	07/03/2025
6.	Mr. Mayur Powar, Mr. Mayur Pawar, Project Engineer, BEIL-Dahej	Industry 4.0	18/03/2025
7.	Mr. K.S Shah,GNFC	Electrical maintenance & Installation	18/4/2025
8.	Dr. Dhruv Chandel, Sr. Engineer, Mathworks	AI with MATLAB,Machine Learning & Parallel Computing	25/4/2025
9	Mr. Kunal Patel,Hitachi Sanand	Electrical Insulation and Testing	5/5/2025

Glimpse of Expert Lecture



2. Industry Visits

Sr. No.	Name of Industry	Place	Semester	Date of IV
1	General Electro Engineers	Ankleshwar	BE 3rd, 5th, DE 3rd, 5th	02/08/2024
2.	Agnus Lighting Systems	Ankleshwar	BE 3rd, 5th, 7th, DE 3rd, 5th	02/08/2024
3.	Trimurti Transformers	Ankleshwar	BE 3rd, 5th, 7th, DE 3rd, 5th	23/08/2024
4.	Zydus Lifesciences Ltd	Ankleshwar	BE 3rd, 5th, 7th	29/08/2024
5	Viketa Electronics	Ankleshwar	BE 8th, 6th , 4th, DE 4th, 6th	28/01/2025
6	NPCIL Kakrapar	Kakrapar, Surat	BE 8th, 6th , 4th, DE 6th	01/02/2025
7	Elcop Controls	Bharuch	BE 8th, 6th , 4th, DE 4th, 6th	17/03/2025
8	Vikram Sarabhai Science Exhibition Centre Ahmedabad	Ahmedabad	BE 8th	08/04/2025
9	AIA Expo	Ankleshwar	BE 8th	16/04/2025
10	Riddhi Pharma	Ankleshwar	BE 8th, 6th , 4th, DE 4th, 6th	24/04/2025

Glimpse of Industry Visit

3. Peer Learning Initiatives (PLI)

Sr. No.	Sem	Total No of PLI Completed	Sr. No.	Sem	Total No of PLI Completed
1	3rd (DE)	10	1	4th (BE)	10
2	5th (DE)	10	2	4th (DE)	10
3	3rd (BE)	10	3	6th (BE)	10
4	5th (BE)	10	4	6th (DE)	10
5	7th (BE)	05	5	8th (BE)	05
Total PLI		**45**	**Total PLI**		**45**

4. MOU Updates

Sr No	Name of Organization	Date of MOU	Activity Under MOU
1	Avakash Automation	31st January, 2024	Student In-Plant Training
2	Tula Trans Electricals	17th August, 2024	Industry Visit, FIT
3	Astek Electricals	17th August, 2024	Industry Visit, EL
4	Urja Consultant Engineers	17th August, 2024	Urja Consultant Engineers
5	PTS Automation Pvt. Ltd.(Renewal done)	17th February, 2025 (Renewed)	Placement Drive, Student Internship
6	Goldi Solar Pvt Ltd	19th February, 2025	Goldi Solar Pvt Ltd

5. 1-2-1 Meeting

Sr. No.	Date of meeting	Sem	Venue of Meeting	Meeting conducted by	Major points discussed
1	01/10/24	BE (Sem-7) (Sem-5) DE (Sem-5)	Basic Electronics Lab	Dr. Alok Gautam	Journey of alumni students and their success. Study hours per week for getting good score in final exams. Maintain 100% attendance.
2.	1/10/24	DE &BE (Sem-3)	Automation Lab	Dr. Omprakash Mahadwad	students to increase study hours per week for getting good result in final exams. Reading hours 30 to 35 hours per week. Weak student to make group according to their subject and start preparation to clear backlog subject. Maintain 100% attendance.

1-2-1 Meeting

Sr. No	Date of meeting	Sem	Venue of Meeting	Meeting conducted by	Major points discussed
1	30/01/25	DE (Sem-6)	Classroom 17-B	Dr. Shrikant J Wagh	The importance of self- study and reading hours for good result. He motivated them to work hard. To clear all backlogs in this term.
2.	14/02/25	DE (Sem-4) BE (Sem-8)	Electromechanical Conversion Lab	Dr. Shrikant J Wagh	Students were encouraged to participate in different activities. Study hours per week increase for getting good result in final exams. Maintain 100% attendance and getting Bounce Marks in MSE.
3.	08/04/25	BE (Sem-6)	Basic Electronics Lab	Dr. Omprakash Mahadwad	Discussed the feedback of students for Unit Test-1&2 Results & the problems and difficulties faced by them and Discussed regarding the New timings of UPL University and taken feedback from students.

6. Parents Teacher Meeting

Sr. No.	Date of meeting	Sem	Name of Class Advisor	Major points discussed
1	23/08/2024	BE (Sem-7) DE (Sem-5)	Mr. Hiren Jariwala Mr. Hitenkmar Mistry	Different policies, contribution and planning of UPL University towards students, commitment from parents to motivate their children for more hardwork & academic progress in last semester, attendance, result analysis and Placement details, etc.
2.	06/09/2024	BE (Sem-5)	Mr. Jignesh Joshi	Various policies, initiatives, and planning by UPL University for student development, along with parental commitment to encourage their children towards greater effort and academic improvement in the final semester, including aspects of attendance, performance analysis, and placement outcomes.
3	06/10/2024	BE (Sem-3)	Mrs. Richa Dubey	Parent-Teacher Meeting was held for BE Sem-3, BE Sem-5, and DE Sem-5 Electrical students. The HOD and Class Advisors discussed university policies, academic initiatives, and student development plans with parents, while also seeking their support in motivating students for better performance. Key points such as attendance, result analysis, and placement updates were also reviewed.

Glimpse of Parents Teacher Meeting

7. Teacher’s Day Celebration

Department of Electrical Engineering celebrated Teacher's day by executing Peer Learning Initiative (PLI) in DE Sem-3 and BE sem-7 on 5th September, 2024. Senior students delivered a class in junior student classes. Students interacted with senior student about their doubts and discussion about covered topics.

8. Engineer's Day Celebration

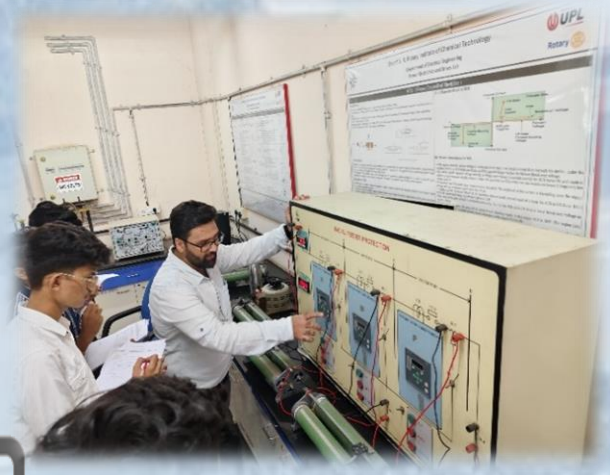
On 18th of September We have celebrated Engineer's Day in our campus ,celebrating the birth anniversary of renowned engineer, scholar and states man Sir. M.VISHVESHWARYA. On this occasion we had organized various competitions such as: Quiz Competition, Debate Competition and Elocution Competition. The response from Students was quiet good. Around 30+ students from Degree and Diploma had registered for the competition. For Quiz competition the topic was Engineering Inventions. For Debate the motion of the house was "Will AI effect Human Employment". For Elocution the Topic was "Role of Scientists in Sustainable development".

9. D2D Workshop for Government Rajpipla College

The Department of Electrical Engineering-SRICT of UPL University has organised a one day workshop on “Modern Power System Protection and Relaying” for Diploma Engineering students from Government Polytechnic, Rajpipla on 27th September, 2024. The students were benefited with hands-on experiment sessions during the workshop. Students also got the detailed knowledge of functionality and different types of configuration parameters of electromagnetic relays and Numerical relays. Student participants were felicitated by certificates.

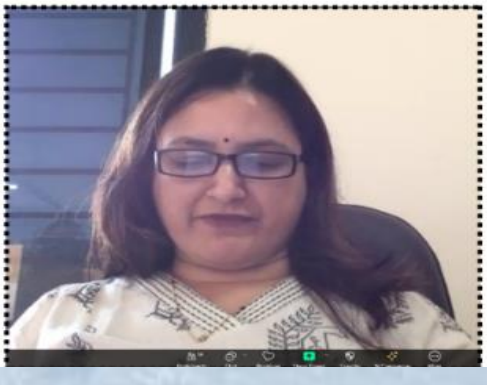
10. D2D Workshop for Government K. J. Polytechnic College

The Department of Electrical Engineering-SRICT of UPL University has organised a one day workshop on “Modern Power System Protection and Relaying” for Diploma Engineering students from Shri K. J. Polytechnic, Bharuch in two batches on 10th and 11th October, 2024. The students were benefited with hands-on experiment sessions during the workshop. Students also got the detailed knowledge of functionality and different types of configuration parameters of electromagnetic relays and Numerical relays. Student participants were felicitated by certificates.



11. Online Refresher Course of Recent Trends in Electrical Engineering for Industries

Department of Electrical Engineering organized an online one-day refresher course on "Recent Trends in Electrical Engineering for Industries" on 19th November, 2024. Total 51 industry delegates participated in this program from various industries. Total four sessions were delivered by experienced speakers from Reliance Industries Ltd, GNFC, Hitachi Energy and Alphatech Automation. The session was quite effective and received positive feedbacks from the participants. The overall program was coordinated by Mr. Krunal Shah, Assistant Professor, Department of Electrical Engineering and Guided by Dr. Jalpa Thakkar, Associate Professor and Head of Department of Electrical Engineering.

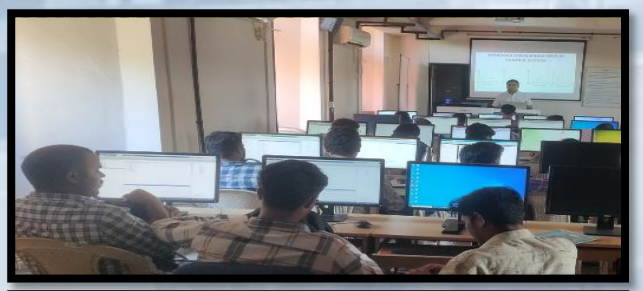


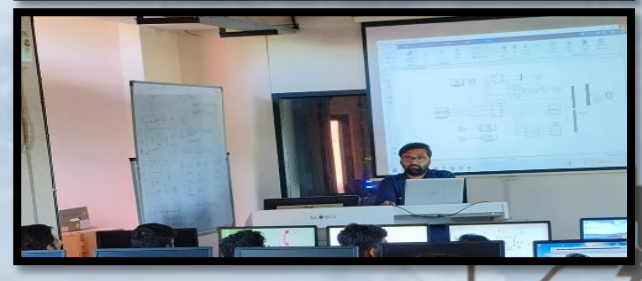
12. A Session on “Future Scope of Electrical Engineering” at ITI Kosamba

UPL University of sustainable organized a visit at ITI Kharach, Kosamba on 03, January, 2025. Mr. Ankur Gheewala (Electrical Engineering), Mr. Abhi Patel (Mechanical Engineering) and Mr. Harsh Parmar (Computer Engineering) presented future scopes of their respective engineering branches after passing out of ITI. Total 64 students (of Electrician, wireman, Fitter, and Computer trades) attended this program. Students have discussed some queries about their trades. In the concluded meeting, Mr. Kaushik D. Patel, Principal of ITI Kharach, Kosamba has wished to arrange a campus visit of UPL University for ITI final year trade students in the upcoming term.

13. A Training Session on “Basics of MATLAB for Electrical Engineers”

Department of Electrical Engineering and Institute of Engineers India (IEI) jointly organized Two days workshop on “BASICS of MATLAB for ELECTRICAL ENGINEERS” on 10th and 12th February, 2025. Total 24 students have participated in this workshop. Session:1 “Application of Mathematics in MATLAB” was conducted by Mrs. Richa Dubey, Assistant Professor, DEE in which students solved mathematical problems in MATLAB using .m file. Session:2 “Application of Control System in MATLAB” was conducted by Dr. Sourav Choubey, Assistant Professor, DEE in which Students practiced the basics of control system related problems in MATLAB using .m file. Session:3 “Application of Power Electronics in MATLAB” was conducted by Mr. Hiren Jariwala, Assistant Professor, DEE in which Students learned about implementation of DC Chopper applications in MATLAB using simulation .slx file. Session:4 “Application of Power System in MATLAB” was conducted by Mr. Ankur Gheewala, Assistant Professor, DEE in which Students learned about implementation of applications of power factor corrections in MATLAB using simulation .slx file. and coding with .m file.





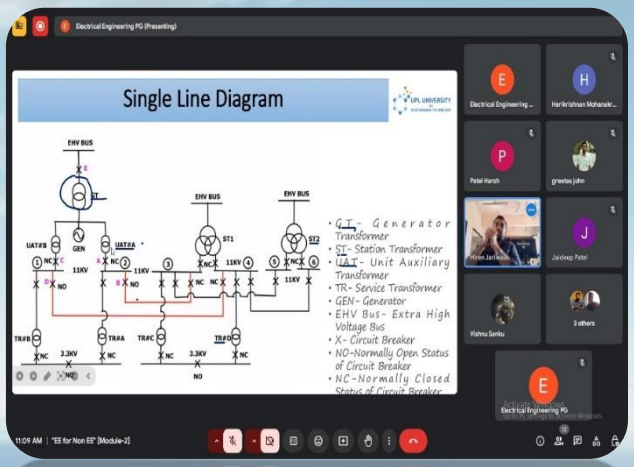
14. A Workshop on Electrical Machines

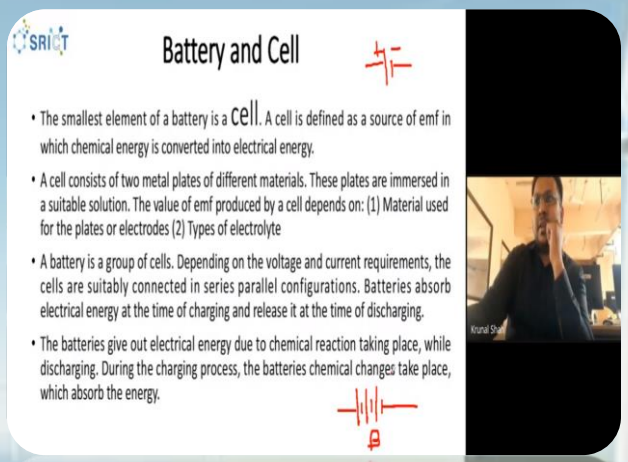
A two-day hands-on workshop on Electrical Machines was conducted by the Department of Electrical Engineering, SRICT – UPL University for Diploma students of Government Polytechnic, Rajpipla, on 27th –28th February 2025. With 24 students and one faculty member participating, the sessions offered both theoretical insights and practical training on AC machines and synchronous generators. The workshop was well-received, and participants expressed keen interest in attending similar programs in the future."

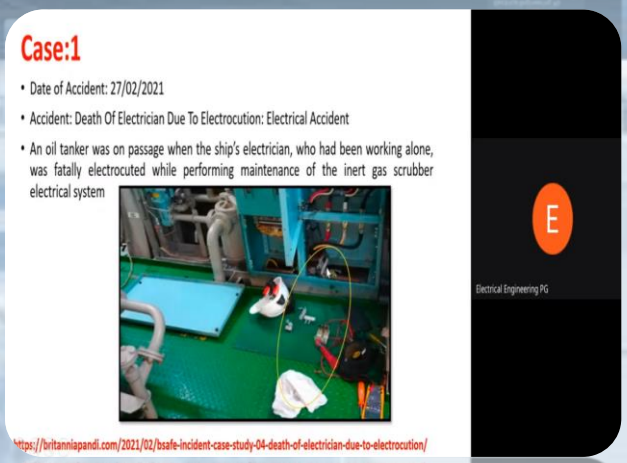
15. EE for Non-EE Training Bharuch Enviro Infrastructure Ltd, Ankleshwar

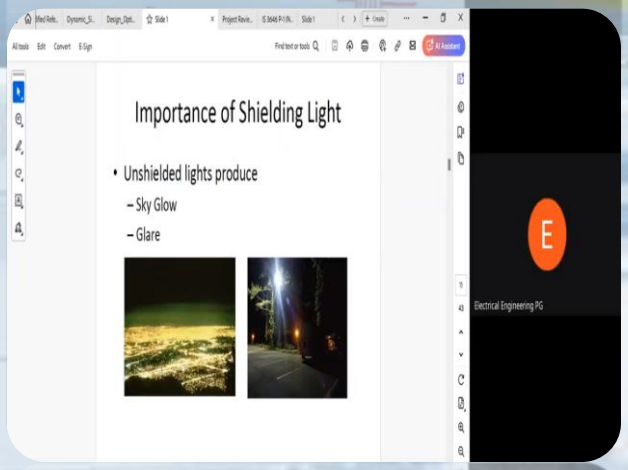
Name of Faculty Expert	Topic Name	No. of Hour	Date of Session	Timing
Mr. Krunal Shah	Basics of Electrical Engineering	02 Hours	31/12/2024	11:00 am to 01:00 pm
		02 Hours	04/01/2025	11:00 am to 01:00 pm
Mr. Hiren Jariwala	Electrical Equipment in Industries	02 Hours	07/01/2025	11:00 am to 01:00 pm
		02 Hours	10/01/2025	11:00 am to 01:00 pm
Dr. Jalpa Thakkar	Industrial Electric Power Distribution System	02 Hours	15/01/2025	11:00 am to 01:00 pm
		02 Hours	17/01/2025	11:00 am to 01:00 pm
Mr. Jignesh Joshi	Earthing and Bonding	02 Hours	21/01/2025	11:00 am to 01:00 pm
		02 Hours	24/01/2025	11:00 am to 01:00 pm
Mr. Ankur Gheewala	Electrical Safety	02 Hours	04/02/2025	11:00 am to 01:00 pm
		02 Hours	07/02/2025	11:00 am to 01:00 pm
Mrs. Richa Dubey	Electrical Lighting System	02 Hours	28/01/2025	11:00 am to 01:00 pm
		02 Hours	31/01/2025	11:00 am to 01:00 pm
Dr. Sourav Choubey	Switchgear and Protection	02 Hours	11/02/2025	11:00 am to 01:00 pm
		02 Hours	14/02/2025	11:00 am to 01:00 pm
Dr. Sourav Choubey	Electrical Maintenance Basics	02 Hours	18/02/2025	11:00 am to 01:00 pm
		02 Hours	21/02/2025	11:00 am to 01:00 pm
Dr. Praful Chudasama	Energy Conservation and Audit	02 Hours	25/02/2025	11:00 am to 01:00 pm
		02 Hours	28/02/2025	11:00 am to 01:00 pm
	Energy Management	02 Hours	04/03/2025	11:00 am to 01:00 pm
	Thermography	02 Hours	07/03/2025	11:00 am to 01:00 pm

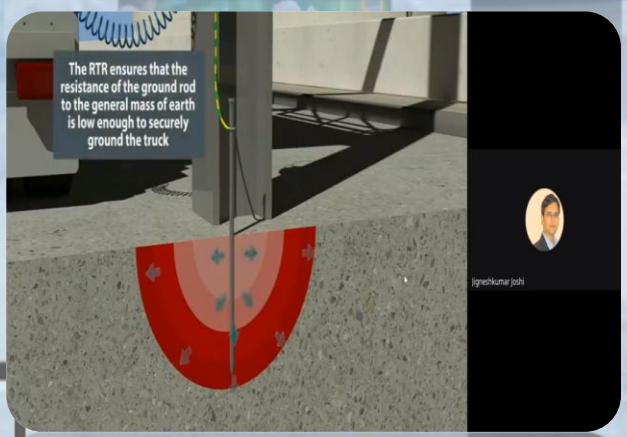
Glimpse of EE for Non-EE Training Bharuch Enviro Infrastructure Ltd, Ankleshwar

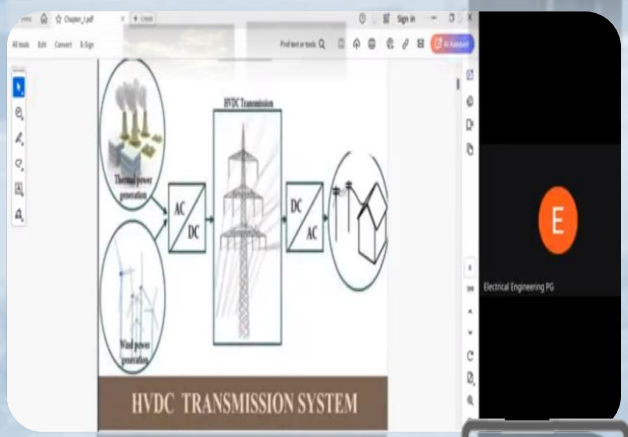






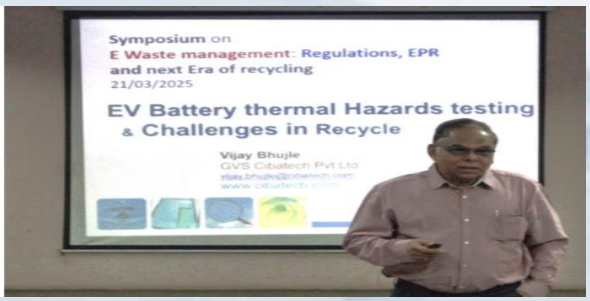






16. One Day Seminar on “E-Waste Regulation, Disposal and Recycling”

Department of Electrical Engineering of UPL University of Sustainable Technology and BEIL infrastructure Ltd jointly organized a symposium on "E-Waste Management: Regulations, EPR and the next Era of Recycling " on 21 March, 2025 at UPL University of Sustainable Technology. Mr. Anand Kumar, Ex director, CPCB , Ms. Manali Bhatt, Unit head, E-Waste Cell, GPCB and Mr. Vijay Bhujle, Senior VP, GVS, Cebatech Pvt. Ltd delivered sessions on different topics. More than 50 industries delegates of BEIL Infrastructure Ltd, GRP Ltd, Godrej Industries Ltd, Lanxess Industries etc. participated in this program. Chief guests Mr. B.D. Dalwadi, CEO, BEIL Infrastructure Ltd and Mr. Raju Modi, DGM, GRP Ltd. at inauguration function of symposium. Dr. Shrikant Wagh, Provost, UPL University of Sustainable Technology and Dr. Jalpa Thakkar, Associate Professor and Head of Department of Electrical Engineering welcomed all participants. All activities was coordinated by Dr. Sourav Choubey, Assistant Professor, Department of Electrical Engineering.



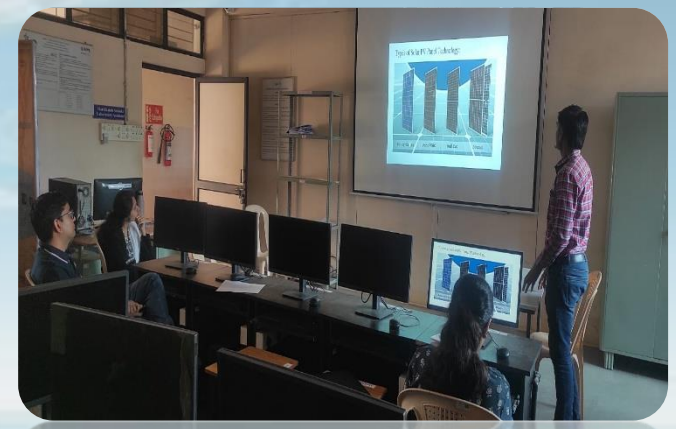
17. PGDIAR workshop at Velox Automation, Surat

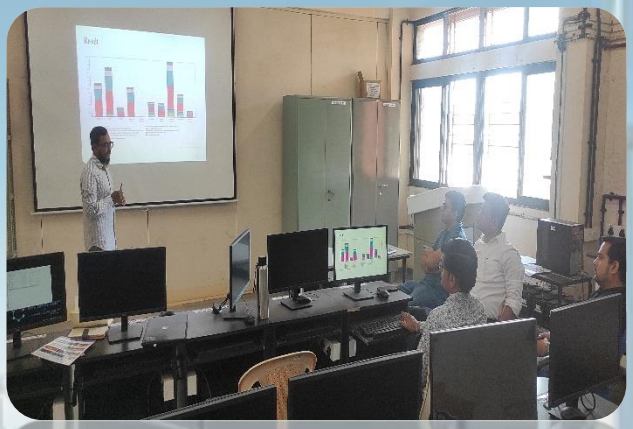
Department of Electrical Engineering organized hands on training session on "PLC, SCADA and DCS Programming" for students of Sem-1 of PGDIAR at Velox Automation, Surat on 06-06-2025. Students got the exposure on how to make Function Block, implement function blocks in PLC and its programming.

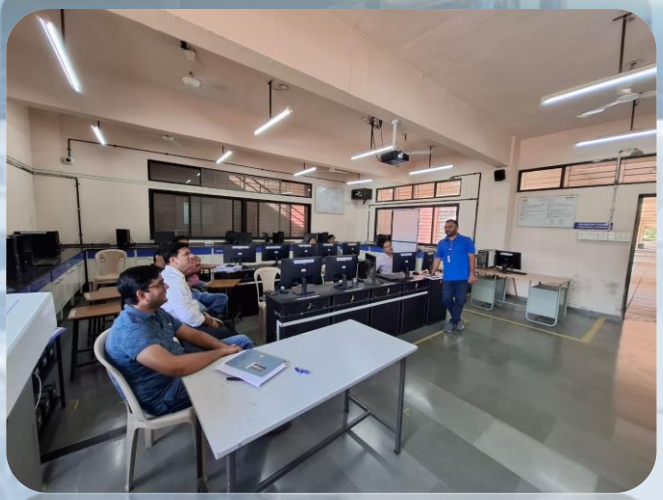
18. Project Reviews

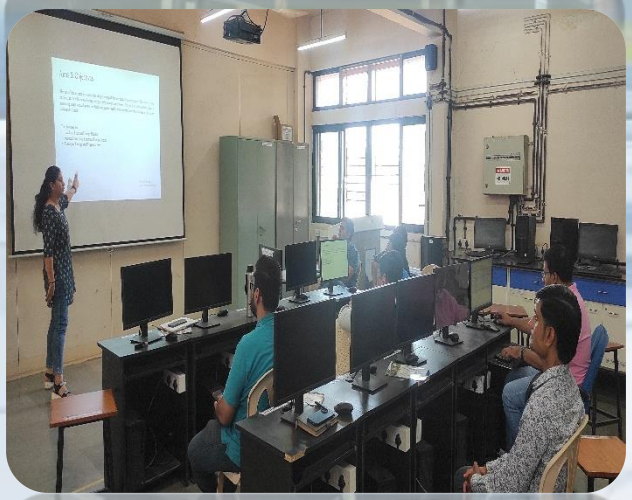
Sr. No.	Review No.	Date of Review	Name of Faculty/Guide	Topic of Project	Students in a group
Project Review Summary DE Sem-6 EE					
1	1	31/03/2025	KS	Solar Energy measurement Solar Inverter & Solar battery charger	3 4
2	2	28/04/2025	HM	Transmission Line Fault Detection	3
3	3	20/05/2025	AG	Design of Electric Vehicle Charger	4
Project Review Summary BE Sem-6 EE					
1	1	28/03/2025	JJ	Design and Implementation of Flyback Converter for battery charger application.	3
2	2	02/05/2025	HJ	IOT Based Smart Agriculture Monitoring System	3
			RD	Artificial intelligence techniques for induction motor.	3
3	3	21/05/2025	SAC	Study and analysis of Pretreatment methods for Li-ion Battery	3
			JKT	Design and Development of Solar PV Module for Isolated Converter Topology	4
Dissertation Review of ME II Year EE					
1	1	30/08/2024	JKT	Design and Analysis of a Microgrid with RES and BESS	1
2	2	15/10/2024	PPC	Design and Performance Evaluation of Captive Solar Plant using N-TOPCON Bifacial PV Technology	1
3	3	16/11/2024	SAC	Recycle and Reuse of Batteries	1
4	4	08/02/2025	HJ	Review and Analysis of Multilevel Inverter	1
5	5	15/03/2025			
6	6	30/04/2025			

Glimpse of Project Reviews



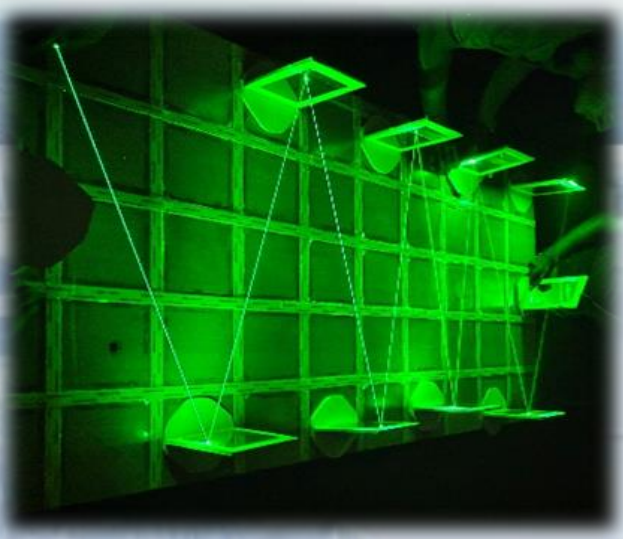






19. Lazor Maze Event in SCI-TECHNOVATION-2K24

High frequency laser beam need to be directed as per the instruction provided at the time of event. Hurdles will be there at the event spot and participants need to find the best shortest pathHigh frequency laser beam need to be directed as per the instruction provided at the time of event. Hurdles will be there at the event spot and participants need to find the best shortest path so that laser beam can reach to its final spot so that laser beam can reach to its final spot.



20. ACCQC 2024 Event Participation

The students from Electrical Engineering (SRICT) of UPL University have participated in 12th Convention on Quality Concepts-ACCQC 2024 organised by QCFI Ankleshwar Chapter on 21st September, 2024. Total 04 (02 Teams) students from Electrical Department have participated in this event and presented the 5S concepts implemented at our University as well in department amongst the delegates from various industries. 01 team has secured GOLD position and 01 team has secured BRONZE position.

21. Students Felicitation-2024

Sr. No.	Enrollment No.	Student Name	SPI	CPI
SPI: 8.5 - 8.99				
1	220102304001	Bhagat Birjubhai Kishorlal	8.65	7.86
2	210102104010	Suthar Dinesh Bhanwarlal	8.70	8.40
3	210102104001	Chaudhari Maulikkumar Manasyabhai	8.75	8.56
4	220102304004	Goswami Parthgiri Kamleshgiri	8.75	8.01
SPI: 9.0 - 9.49				
5	210102104006	Patel Krutika Kiranbhai	9.30	9.48
6	210102104003	Joshi Dev Kalpeshkumar	9.35	9.10
7	220102304006	Shah Riyaz Yusuf	9.40	9.05
8	220102304007	Tailor Ayushkumar Jayeshbhai	9.40	8.37
9	220102304008	Vaidya Shiyansu Amitbhai	9.45	9.04
SPI: 9.5 - 9.99				
10	210102104004	Palve Pratikbhai Janubhai	9.50	9.60
11	210102104008	Sarvaiya Chetanbhai Babubhai	9.55	9.36
12	210102104009	Sotua Rishikumar Kamleshkumar	9.60	9.54

Glimpse of Students Felicitation-2024








22. Pair Learning Activity

Students of Department of Electrical Engineering were felicitated for “Pair Learning Activity” by President of UPL University, Mr. Ashok Panjwani, Provost of UPL University, Dr. Shrikant Wagh and COE, Dr. Purvi Naik on 2nd May, 2025. Students shared their feedback on “Pair Learning Activity”. Students appreciated “Pair Learning Activity” and they have given commitment to clear all backlogs by next examination.







23. Placement Details Year 2024-25

24. Technical Article

Future Renewable Electrical Energy Infrastructure Development Under Planning by 2030

- **Introduction:**

➢ The 21st century has seen a paradigm shift in the energy sector. Conventional fossil fuels such as coal, oil, and natural gas have contributed to economic growth but at the cost of rising greenhouse gas emissions, global warming, and environmental degradation. Recognizing these challenges, countries worldwide, including India, are transitioning toward renewable sources of electricity.

➢ By 2030, renewable energy will not only dominate global power generation but also support industrial growth, electric mobility, rural electrification, and sustainable development. The planned infrastructure development focuses on solar, wind, hydro, biomass, green hydrogen, and energy storage systems, all interconnected through smart digital grids.

➢ Following details are given in the table form:

Category	Planned Development	Detailed Description
Targets & Commitments	500 GW non-fossil; 50% renewables; 1B tonne CO_2 reduction	Milestone targets under COP26 with Net-Zero by 2070. Focus on sustainable and clean energy transition by 2030.

Technical Article

Category	Planned Development	Detailed Description
Solar Energy	~280 GW (parks, rooftop, floating)	Expansion of mega solar parks, 40 GW rooftop solar adoption, and floating solar farms on reservoirs.
Wind Energy	~60 GW onshore; 10 GW offshore	Onshore projects in Tamil Nadu and Gujarat, offshore development, and hybrid wind-solar plants.
Hydropower & Pumped Storage	Expansion of large/small hydro + pumped storage	Balancing intermittent renewables with Himalayan hydro and storage systems acting as natural batteries.
Biomass & Waste-to-Energy	Agro-residue & municipal waste projects	Conversion of crop residues and urban waste into energy, reducing pollution and supporting smart cities.
Green Hydrogen & Fuel Cells	Hydrogen hubs in Gujarat, Rajasthan, Andhra Pradesh	Green hydrogen for industry and transport, fuel cells for vehicles, railways, and backup systems.
Energy Storage & Grid Modernization	Battery storage, smart meters, EV charging	Deployment of BESS, smart grids, prepaid meters, and expansion of Green Energy Corridors.

Technical Article

Category	Planned Development	Detailed Description
Digital & Emerging Tech	AI, IoT, blockchain, microgrids	Intelligent forecasting, predictive maintenance, peer-to-peer energy trading, and decentralized grids.
Challenges	Intermittency, land, financing, supply chain	Weather dependency, land conflicts, high capital costs, and reliance on imports for battery materials.
Benefits	Energy security, jobs, CO_2 reduction, rural growth	Energy independence, employment generation, improved health, and rural electrification.

Conclusion:

By 2030, the future of renewable electrical energy infrastructure will be marked by massive deployment of solar, wind, hydro, and hydrogen projects, backed by energy storage, smart grids, and digital technologies. India's strong policy push, coupled with technological innovation, will not only ensure sustainable electricity for its population but also position it as a global leader in the renewable energy revolution.

Preet Patel,
DE Sem-3 EE

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

"AI in Power generation and transmission system"

In a world that increasingly relies on sustainable energy sources, integrating Artificial Intelligence (AI) into power generation and transmission is changing the energy landscape. This combination of technology and industry is not just about advancements; it's a story of social change and engineering progress that resonates with both businesses and engineers.

AI plays many roles in power generation. It helps optimize output from renewable sources like wind and solar power using data analysis and machine learning algorithms. These systems look at weather patterns, predict energy production, and make real-time adjustments to improve efficiency. Imagine a solar farm where AI predicts sunlight availability days ahead, maximizing output and reducing waste. This innovation boosts energy efficiency and cuts operational costs, making it easier for industries to switch to greener energy sources.

In terms of electricity transmission, AI improves reliability and resilience. Smart grids powered by AI can detect and fix faults before they lead to outages, ensuring a steady power supply. For engineers, this creates opportunities to design systems that are intelligent and flexible enough to manage changes in demand and supply. The societal impacts are significant; with better reliability, people are more confident in adopting renewable energy solutions.

Also, AI is helping make energy consumption clearer and easier for consumers.

What's in Your Mind...??

With AI-driven analytics, households can optimize their energy use, which leads to cost savings and smaller carbon footprints. This connection between technology and real-world needs represents a shared vision for a sustainable future.

As we explore this era influenced by AI, it's important for businesses, engineers, and society to work together. By leveraging artificial intelligence, we can create energy systems that tackle future challenges, ensuring a brighter, sustainable future for everyone. The evolving stories of power generation and transmission are not just about technology; they focus on building a sustainable society that values efficiency, resilience, and the health of our planet.

Shahid Khan Pathan
BE Sem-5 EE

26. Alumni Speaks

Ms. Shreya Shah,

Assistant Manager,

Aarti Industries, Dahej, Bharuch

Batch ME 2024 and Batch BE-2018,

Department of Electrical Engineering

I am proud to be an alumnus of UPL University of Sustainable Technology. My years at the university were truly transformative and laid a strong foundation for my professional journey. I completed my Bachelor of Engineering (BE) in June, 2018 and completed my Post Graduation (ME) in June, 2025 from UPL University of Sustainable Technology. I got campus placement in BEIL Infrastructure Limited as an Executive Engineer. Currently I am working in the Aarti Industries as an Assistant Manager in Dahej. The faculty members were not just knowledgeable, but also extremely supportive and approachable, always encouraging us to think critically and stay updated with industry trends.

The university's emphasis on practical learning through expert lectures, lab sessions, industry visits, and project work helped bridge the gap between theory and real-world application. I also appreciate the focus on personality development and soft skills, which played a significant role in shaping my confidence and communication abilities through EPC course.

Alumni Speaks

The campus environment was positive, inclusive, and full of opportunities to grow – both academically and personally. UPL University continues to stay connected with its alumni, and I am glad to still feel like a valued member of the university community.

I am grateful for the values, skills, and friendships I gained here, and I would highly recommend this institution to aspiring engineers and professionals who are looking for a solid academic foundation and development.

Alumni Speaks

Mr. Mohammad Lakdawala,
Executive Electrical,
ETL, Ankleshwar GIDC
Alumni, Admission Batch ME 2022
and Batch BE-2013,
Department of Electrical Engineering,

As I look back on my journey through the corridors of UPL University of Sustainable Technology, I am filled with immense gratitude for the transformative experiences that have shaped both my academic and professional growth. The institute has been much more than a place of learning—it has been a catalyst in refining my expertise, broadening my perspective, and nurturing my passion for engineering.

My journey began with graduation at SRICT, where classrooms and laboratories were not merely spaces of routine study but also vibrant hubs of innovation and critical thinking. Laboratory sessions extended beyond standard experiments, enabling me to connect theory with practice and apply concepts to real-world challenges. This strong emphasis on experiential learning during my Master's program played a pivotal role in deepening my subject knowledge and problem-solving skills.

With this robust academic foundation, I transitioned confidently into the professional world.

Alumni Speaks

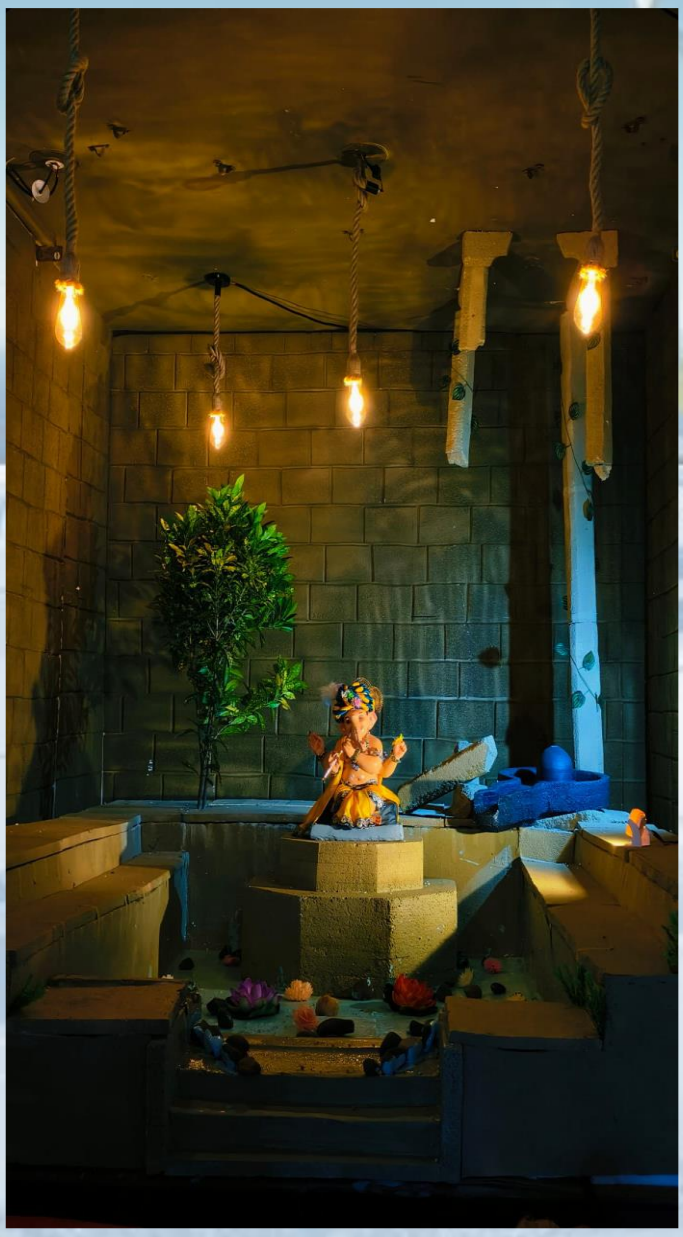
My Master's degree from Shroff S. R. Rotary Institute of Chemical Technology, further enriched by specialized certifications, opened new avenues for career advancement at ETL. The discipline, skills, and insights gained during my postgraduate journey continue to empower me in addressing professional challenges with competence and confidence.

I extend my heartfelt gratitude to all the faculty members for their unwavering guidance and support throughout this journey.

27. Students' Corner

ART/SKETCHING/Photography Section

Jadav Vighnesh, DE Sem-5, EE



Shivam Vidhulkar, DE Sem-3, EE

Students' Corner

Name: Desai Rutvik

BE Sem-3 EE

Safety Instructions for Electrical Engineering

General Electrical Safety Rules

1. Always switch off the supply before working on any circuit, equipment, or machine.
2. Use proper Personal Protective Equipment: insulated gloves, safety shoes, goggles, and flame-resistant clothing.
3. Verify absence of voltage using a properly rated tester before touching conductors.
4. Never bypass safety devices such as fuses, MCBs, or ELCBs.
5. Keep hands dry and avoid standing on wet floors while working with electricity.

Workplace and Laboratory Safety

1. Follow the Lockout/Tagout-LOTO procedure before maintenance.
2. Use insulated tools and ensure equipment grounding.
3. Do not overload sockets or extension cords; it increases fire risk.
4. Maintain safe distances from live conductors, high-voltage panels.
5. Report damaged cables, plugs, or insulation immediately for repair.

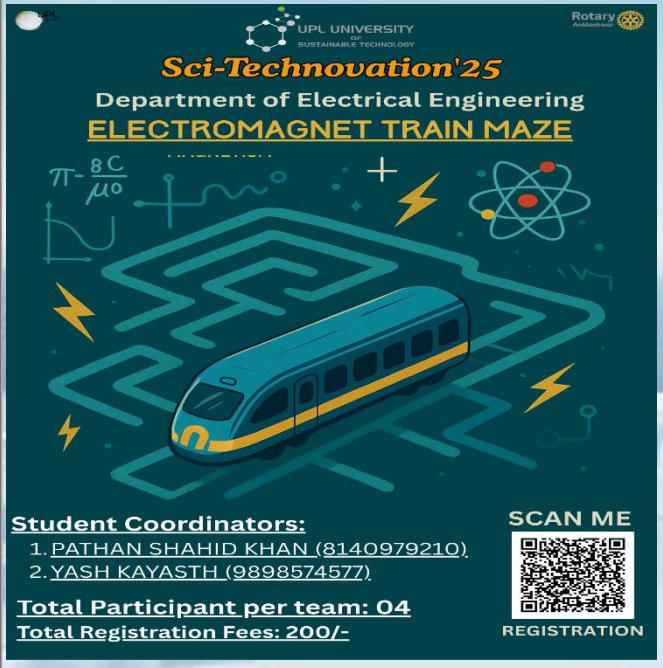
High-Voltage and Field Safety

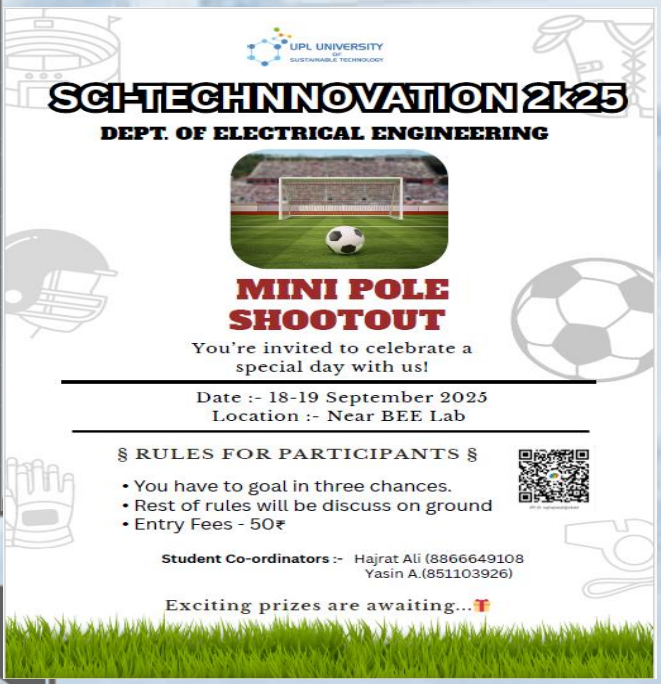
1. Maintain minimum clearance distances from overhead power lines.
2. Use earthing rods when working on transmission/distribution systems.
3. Work in pairs – never work alone in high-voltage areas.
4. Ensure proper barricading and warning signage in hazardous areas.
5. Discharge capacitors before handling them.

Desai Rutvik, BE Sem-3
Electrical Safety-Summary Safety

Students' Corner

Upcoming Events: SCI- Technovation 2K25
Dates: 18-19th September, 2025





Technical Quiz

Non-Technical Event

28. Meet Your Teachers

Dr. Jalpa Thakkar
Head and Associate Professor

Dr. Praful Chudasama
Assistant Prof.

Dr. 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
Lecturer

29. Faculty Achievements

CRC Press
Taylor & Francis Group

ICSCCA 2K25

CERTIFICATE
OF APPRECIATION

Dr. Sourav Choubey

This is to certify that the above has served as a Session Chair at the International Conference on Smart Computing, Communication and Automation (ICSCCA) 2K25 held on 2nd & 3rd August 2025 organised by Budge Budge Institute of Technology (BBIT), Kolkata, W.B., India. We sincerely appreciate your valuable contribution in chairing the technical session and ensuring the smooth conduct of the proceedings.

Shree Jagannath Gupta	Prof. (Dr.) Sandeep Malik	Prof. (Dr.) Himadri Biswas	Mr. Uddyalok Chakraborty
Patron-In-Chief	Co-Patron	Convenor	Co-Convenor

Dr. Sourav Choubey has participated in International Conference on "Smart Computing, Communications and Automation" (ICSCCA) 2K25 which held on 2nd and 3rd August, 2025, organized by Budge Budge Institute of Technology, Kolkata, W.B., India.

ITM SLS BARODA UNIVERSITY
Vadodara | Gujarat | India
"Think Big... Think Beyond"

ITM SLS BARODA UNIVERSITY
NATIONAL CONFERENCE
"Semiconductor Chips and Aerospace Ecosystem - An Indian Perspective"
MICRO CHIPS 2025
8 - 10th March 2025

CERTIFICATE OF PARTICIPATION

This certificate is presented to

Mr./Ms./Dr. Sourav Choubey

from UPL University of Sustainable Technology for attending **National Conference** on "Semiconductor Chips and Aerospace Ecosystem - An Indian Perspective" - **MICRO CHIPS-2025** (8th to 10th March 2025) organized by **ITM SLS Baroda University.**

Dr. P M George	Dr. Vimal Kumar
Convenor	Provost (I/C)
MICRO CHIPS 2025	ITM SLS BARODA UNIVERSITY

Supported by: ISRO, SAC, INOXCVA

www.itmbu.ac.in

Dr. Sourav Choubey has participated in national Conference on "Semiconductor Chips and Aerospace Ecosystem-An Indian Perspective" 2025 which held from 8th to 10th March 2025 organized by ITM SLS Baroda University.

Faculty Achievements

NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)

Skill India
कौशल भारत - कुशल भारत

This certificate is awarded to

SOURAV CHOUBEY

for successfully completing the course

Outcome Based Pedagogic Principles for Effective Teaching

with a consolidated score of 57 %

Online Assignments	20/25	Proctored Exam	36.75/75

Total number of candidates certified in this course: 1021

Feb-Mar 2025

(4 week course)

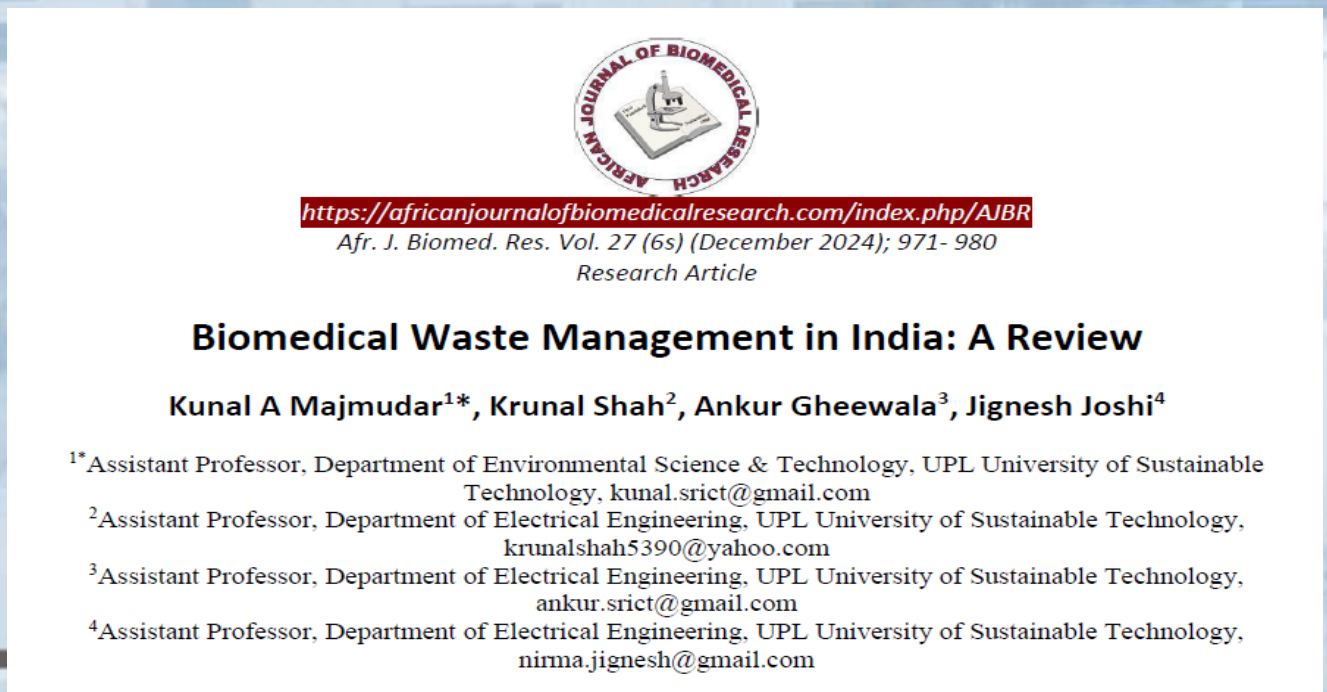
Prof. Haimanti Banerji
Coordinator, NPTEL
IIT Kharagpur

Indian Institute of Technology Kharagpur

swayam

Roll No: NPTEL25GE37S557600177 To verify the certificate No. of credits recommended: 1 or 2

Dr. Sourav Choubey has successfully completed the NPTEL course on "Outcome Based Pedagogic Principles for Effective Teaching " which held from Feb-2025 to March-2025 (4 Weeks) organized by IIT Kharagpur.



AFRICAN JOURNAL OF BIOMEDICAL RESEARCH

https://africanjournalofbiomedicalresearch.com/index.php/AJBR

Afr. J. Biomed. Res. Vol. 27 (6s) (December 2024); 971- 980

Research Article

Biomedical Waste Management in India: A Review

Kunal A Majmudar[1*], Krunal Shah[2], Ankur Gheewala[3], Jignesh Joshi[4]

[1*]Assistant Professor, Department of Environmental Science & Technology, UPL University of Sustainable Technology, kunal.srict@gmail.com

[2]Assistant Professor, Department of Electrical Engineering, UPL University of Sustainable Technology, krunalshah5390@yahoo.com

[3]Assistant Professor, Department of Electrical Engineering, UPL University of Sustainable Technology, ankur.srict@gmail.com

[4]Assistant Professor, Department of Electrical Engineering, UPL University of Sustainable Technology, nirma.jignesh@gmail.com

Mr. Krunal Shah, Mr. Ankur Gheewala and Mr. Jignesh Joshi, Assistant Professors, Department of Electrical Engineering published an article on a topic of "Biomedical Waste Management in India: A Review" in the African Journal of Biomedical Research on 4th December, 2024.

Faculty Achievements

Bulgarian Chemical Communications, Volume 57, Special Issue B (pp. 244-250) 2025 DOI: 10.34049/bcc.57.B.A0018

Extraction and isolation of stevioside and rebaudiana A from *Stevia Bertoni* leaves

J. Joshi[1,5], S. Gautam[2], A. Gheewala[3], A. Gautam[4*]

[1]*Chemical Engineering Department, Government Engineering College -Valsad, Valsad-396001, INDIA*
[2]*Department of Chemical Engineering, Harcourt Butler Technical University, Kanpur, Uttar Pradesh, 208002, India*
[3]*Electrical Engineering Dept, Shroff S. R. Rotary Institute Of Chemical Technology, UPL University of Sustainable Technology, Ankleshwar, Gujarat 393135, India*
[4]*Chemical Engineering Dept, Shroff S. R. Rotary Institute Of Chemical Technology, UPL University of Sustainable Technology, Ankleshwar, Gujarat 393135, India*
[5]*Research Scholar, Gujarat Technological University, Chandkheda, Ahmedabad, 382424, Gujarat, India*

Revised: February 19, 2025

Mr. Ankur Gheewala, Assistant Professor, Department of Electrical Engineering published an article on a topic of “Extraction and Isolation of Stevioside and Rebaudiana from Stevia Bertoni Leaves” in the Bulgarian Chemical Communications, Volume 57, Special Issue B .

ATAL/2025/1740035274

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ATAL

AICTE

ALL INDIA COUNCIL FOR TECHNICAL EDUCATION

Nelson Mandela Marg, Vasant Kunj, New Delhi -110070

AICTE Training and Learning (ATAL) Academy

Certificate

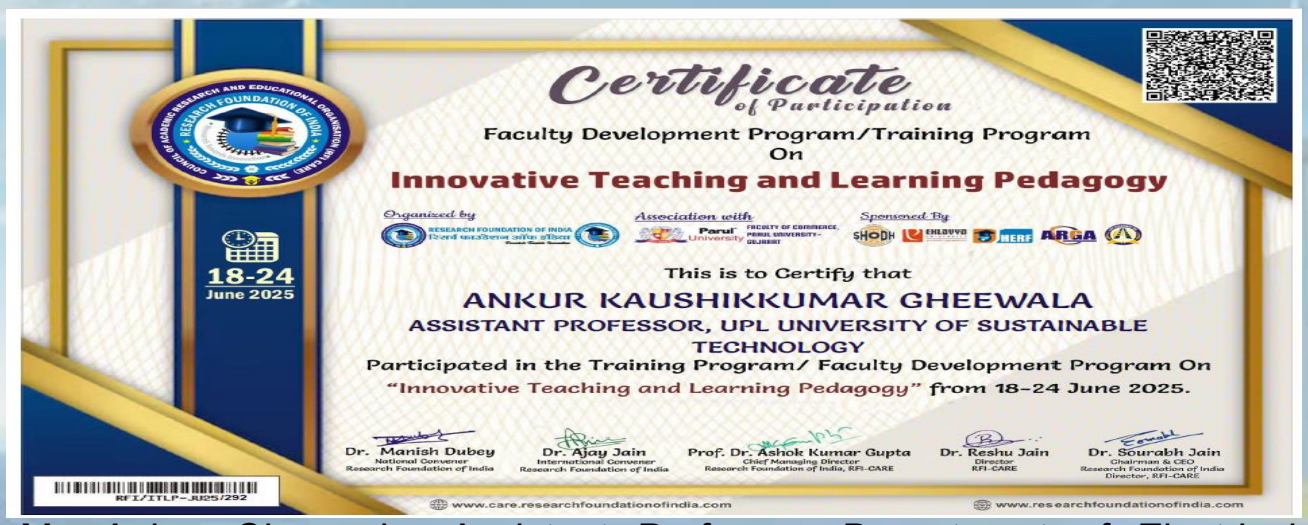
It is certified that ***Mr. ANKUR KAUSHIKKUMAR GHEEWALA, Assistant Professor of UPL UNIVERSITY OF SUSTAINABLE TECHNOLOGY*** *has successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on* ***Sustainable Carbon-Free Technologies for Hydrogen Generation and Storage*** *at* ***National Institute of Technology Tiruchirappalli*** *from* ***24/02/2025*** *to* ***01/03/2025.***

Annad Ramanathan
Professor (Other Institute), Coordinator
National Institute of Technology Tiruchirappalli

Dr. Sunil Luthra
Director & Bureau Head
Training and Learning Bureau, AICTE

Mr. Ankur Gheewala, Assistant Professor, Department of Electrical Engineering attended an online ATAL FDP on “Sustainable Carbon Free Technologies for Hydrogen Generation” from 24th February, 2025 to 1st March, 2025 organized by NIT Tiruchirappalli.

Faculty Achievements



Mr. Ankur Gheewala, Assistant Professor, Department of Electrical Engineering attended an online FDP on "Innovative Teaching and Learning Pedagogy" from 18th June, 2025 to 24th June, 2025 organized by Council of Academic Research and Educational Organization.

Dr. Jalpa Thakkar, Associate Professor & HoD, Department of Electrical Engineering attended One Week Short Term Course on "Power Management Application Through Simulation and Software Tools" in July, 2025 organized by Manipal Institute of Technology & NIT Durgapur.


UPL UNIVERSITY
OF
SUSTAINABLE TECHNOLOGY
Photo by Parthgiri Gauswami (Sem-8) EE