

K. D. POLYTECHNIC, PATAN.

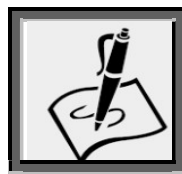


ELECTRICAL ENGINEERING

(NBA Accredited Program)



E - News Letter



(Edition - 9th: 01/01/2025 to 30/06/2025)

(Term: 242)

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1. Message by Head of Electrical Engineering Department



From HOD's Desk

I am feeling honoured and excited to announce that 9th edition of our **E-Newsletter (SPARK)** of electrical engineering department for duration of January – 2025 to June – 2025 is all set to publish online. This is our venture to collect the plethora major happening in electrical engineering department of K. D. Polytechnic, Patan and encapsulate them in the form of **E-Newsletter (SPARK)**.

E-Newsletter (SPARK) is the result of combined requirements of NBA accreditation, Digital India initiative and our Go Green Policy.

We at Electrical department of K. D. Polytechnic, Patan ensure the active participation of students in various curricular and extra – curricular activities in and outside institute.

I appeal students and visitors to spare some moments to read to this **E-Newsletter (SPARK)** available with our college website and encourages us in our new venture.

I hope our **E-Newsletter (SPARK)** will create its unique place among the minds of readers.

On this occasion, I take this opportunity to appreciate entire editorial team of (SPARK) and specially student members for their efforts to make things happen.

**With Warm Regards,
Shri J. B. Bhati
Head of Electrical Engineering Department**

2. Editorial Board of E-Newsletter (SPARK)

Editor in Chief	Mr. J. B. Bhati (In charge Head of Electrical Engineering Department)
Coordinator	Mr. R. D. Modi (Lecturer in Electrical Engineering Department)
Teacher Editor	Mrs. B. R. Sevkani (Lecturer in Electrical Engineering Department)
Students Editors	Suthar Bijalben V. (Semester – 6 th , Electrical Engineering)
	Patel Shubh H. (Semester – 6 th , Electrical Engineering)
	Solanki Heli M. (Semester – 4 th , Electrical Engineering)
	Patel Neel K. (Semester – 4 th , Electrical Engineering)
	Thakor Riyaben H. (Semester – 2 nd , Electrical Engineering)
	Jayswal Bhavy M. (Semester – 2 nd , Electrical Engineering)

It is a matter of great pride to present E-Newsletter (SPARK) of Electrical engineering department of K. D. Polytechnic, Patan.

As you know, E-Newsletter (SPARK) has been magnanimous creation of electrical engineering department and it is the result of all members of editorial board, concerned authorities and students of electrical engineering department who nourished this ‘thought seed’, now blossomed as plant.

As an editor in chief, I express a deep sense of gratitude for all those who directly or indirectly contributed for making this E-Newsletter (SPARK) of Electrical engineering department of K. D. Polytechnic, Patan. A plethora of departmental progress and achievements.

I thankful to our all faculties of electrical engineering department and editorial board for their guidance and cooperation time to time to bring out this E-Newsletter (SPARK).

With Best Wishes,

Mr. J. B. Bhati
(Editor in Chief)

3. Vision, Mission, PEOs and PSOs of Electrical Engineering Department



Vision of Electrical Engineering Department:

To be a committed department to deliver quality technical education to create ethically sound and well-trained electrical engineers for industries and society.

Mission of Electrical Engineering Department:

- 1) To impart quality technical education through good academic infrastructure and well-equipped laboratories.
- 2) To enhance technical skills to become competent electrical engineers by industry interaction.
- 3) To promote entrepreneurship skills and leadership skills through co-curricular and extra-curricular activities.
- 4) To inculcate social responsibilities and problem-solving skills of day-to-day life to serve the society and industries.

Program Educational Objectives of Electrical Engineering Department (PEOs):

- 1) Manage own electrical engineering enterprise.
- 2) Adapt the changing technologies to solve the electrical engineering problem for societal needs.
- 3) Develop proficiency in maintaining various electrical equipment.

Program Specific Objectives of Electrical Engineering Department (PSOs):

- 1) Maintain various types electrical equipment.
- 2) Undertake the electrification of commercial and multi storied buildings.

4. NBA Accreditation status of Electrical Engineering Program

Sr. No.	NBA Procedure	Status
1	NBA Application File No.: 20-147-2021-NBA	06/12/2023
2	Student Faculty Ratio (SFR)	24.17
3	Self-Appraisal Report (SAR) filled by Electrical Engineering Department	18/03/2023
4	Mock NBA visit conducted for Electrical Engineering Program	13/10/2023
5	Dates of NBA Visit	20/10/2023 21/10/2023 22/10/2023
6	Team of NBA Visit	-----
	1) Prof. Syed Tariq Jilani	Chairperson
	2) Prof. Chaskar Madhavrao Uttam	Electrical Expert
7	Total Marks of NBA Visit	1000
8	Marks Obtained by Electrical Engineering Department in NBA Visit	638
9	Final Status of NBA Accreditation of Electrical Engineering Program	Got NBA Accreditation
10	Duration of NBA Accreditation for Electrical Engineering Program	Till 30/06/2026

Honourable Experts of N.B.A. team



5. Highlights and Staff positions of Electrical Engineering Program

Institute code of GTU	631
Diploma in Electrical Engineering code of GTU	09
Intake of Diploma in Electrical Engineering for the year - 2023	90

Highlights of Electrical Engineering Department

1	Plenty of opportunities for overall development of students along with teaching learning process.
2	Highly qualified, hardworking and ample confidence teaching staff.
3	Congenial teaching and learning environment.
4	Analytical approach, design and practical based teaching learning system.
5	Extra coaching classes for weak students.
6	Excellent counselling and academic follow up system with experienced faculties.
7	Well facet classrooms and audio-visual facilities.
8	Departmental library for teaching staff.
9	Women empowerment cell activities by the department.

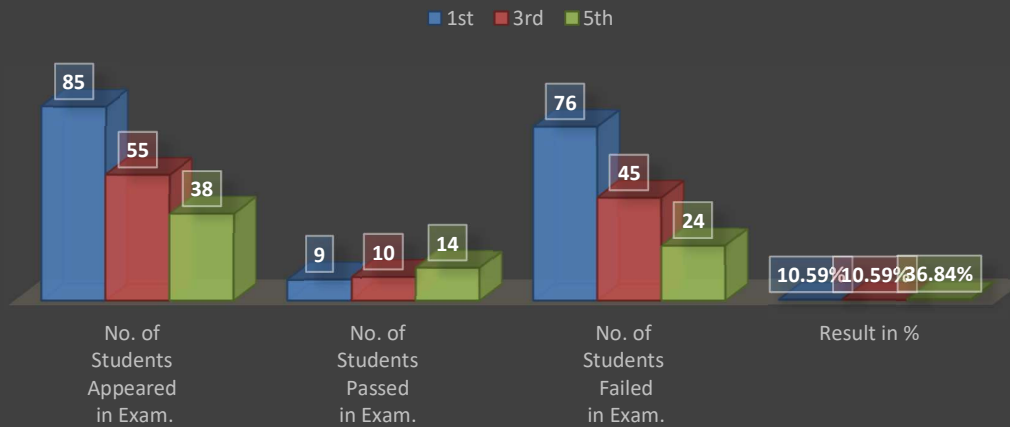
Faculty and Staff position during July – 2023 to December – 2023

Sr. No.	Designation	Educational Qualification	No. of Filled Posts
1	Head of Department (Class – 1)	M.E./M. Tech	00
2	Lecturer (Class – 2)	M.E./M.Tech	08
3	Lecturer (Class – 2)	B.E./B.Tech	06
4	Lecturer (Ad hoc)	B.E./B.Tech	01
5	Lab. Assistant	-----	00
6	Instructor	-----	00
7	Hamal	-----	01

6. Result Analysis of Electrical Engineering Program for the Semester – 1st, 3rd, and 5th of the Term-241 (Winter – 2024)

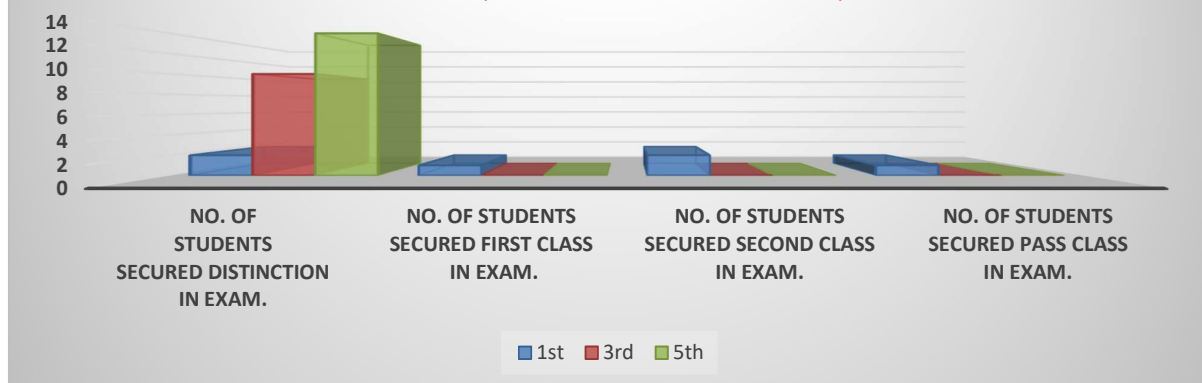
Sr. No.	Semester	No. of Students Appeared in Exam.	No. of Students Passed in Exam.	No. of Students Failed in Exam.	Result in %
1	1 st	85	09	76	10.59 %
2	3 rd	55	10	45	18.18 %
3	5 th	38	14	24	36.84 %

RESULT ANALYSIS OF TERM-241






Sr. No.	Semester	No. of Students Secured Distinction in Exam.	No. of Students secured First Class in Exam.	No. of Students secured Second class in Exam.	No. of Students secured Pass Class in Exam.
1	1 st	02	01	02	01
2	3 rd	10	00	00	00
3	5 th	14	00	0	00

Result Analysis of Term-241 (Secured Classwise)




**7. Sparkling Stars of Electrical Engineering Program of GTU Exam.
Semester – 1st, Winter – 2024 (Term – 241)**




SPI Toppers of 1st Semester: (Term-241)

Sr. No.	Enrolment No.	Student's Name	SPI Secured by student	Rank secured by student	Student's Photo
1	246310309067	PRAJAPATI NEEL JITENDRAKUMAR	7.29	FIRST	
2	246310309106	THAKOR RAHULBHAI DHARAMSHIBHAI	7.19	SECOND	
3	246310309003	BHARVAD CHETANBHAI MAHADEVBHAI	7.05	THIRD	

SPI Toppers of 3rd Semester: (Term-241)

Sr. No.	Enrolment No.	Student's Name	SPI Secured by student	Rank secured by student	Student's Photo
1	236310309024	MANSURI MOHAMADSOHEL MOHAMADSAEED	8.87	FIRST	
2	236310309060	PRAJAPATI PARTHKUMAR MANSUKHBHAI	8.87	SECOND	
3	236310309099	ZALA ANILBHAI HATHIBHAI	8.87	THIRD	

SPI Toppers of 5th Semester: (Term-241)

Sr. No.	Enrolment No.	Student's Name	SPI Secured by student	Rank secured by student	Student's Photo
1	236318309016	PATEL SAURABHKUMAR PRAVINBHAI	9.05	FIRST	
2	236318309031	SOLANKI KARANSING MANGAJI	9.05	SECOND	
3	226310309011	MANSURI MOHAMMADZAKI ZAKIRHUSEN	9.00	THIRD	

8. Industrial Visit for students

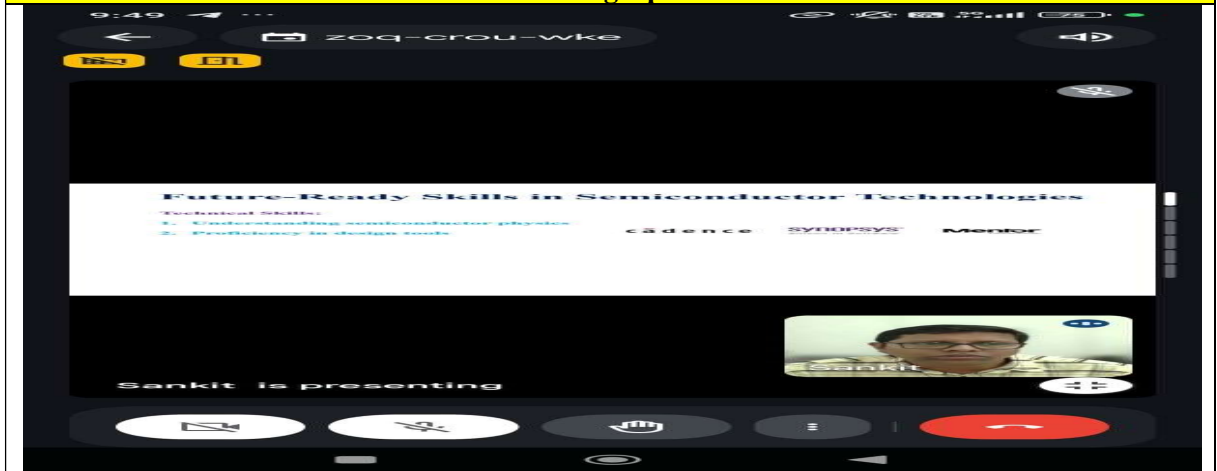
Title of Industrial Visit	Anchor Institute of Solar Energy
Date	10/02/2025
Time	10:30 am onwards
Venue	Mehsana
Expert Speaker	Piyush Miyani
No. of Students	37
No. of Faculties	02
Description	Anchor Institute of Solar Energy (AISE), established by the Centre for Entrepreneurship Development (CED) in Gujarat, focuses on skill-based training in the solar energy sector. Additionally, various institutions offer diploma programs, including PG Diploma in Solar Power Plant Design, Engineering, and O&M, and Advance Diploma in Solar Energy. These programs aim to equip students with the knowledge and skills needed for roles in solar power plant design, installation, operation, and maintenance.

Photographs



Title of Industrial Visit	Renewable Energy Sources with Micro grid
Date	12/5/2025
Time	9:00 to 4:00 pm
Venue	Ganpat University
Expert Speaker	SankitKassa
No. of Students	12
No. of Faculties	2
Description	Renewable energy sources like solar, wind, and hydro, integrated with micro grids, offer a sustainable and reliable power solution, especially beneficial for isolated or developing areas. Micro grids, localized energy grids, can incorporate these renewable sources, along with energy storage, to provide power independently or in conjunction with the main grid.

Photographs



Title of Industrial Visit	Dudhsagar Dairy
Date	1/4/2025
Time	10:00 am
Venue	Mahesana
Expert Speaker	Staff of Dudhsagar Dairy
No. of Students	30
No. of Faculties	02
Description	A visit to Dudhsagar Dairy is highly beneficial for diploma students, particularly those in dairy technology, food technology, or related fields. It offers practical insights into the dairy industry, from milk collection to processing and packaging, enhancing their theoretical knowledge and providing valuable networking opportunities.

Photographs



9. Expert Talk for for students

le of Expert Lecture	Seminar on MG Nurture CAEV
Date	28/4/2025
Time	10:30 onwards
Venue	SPCE Visngar
Expert Speaker	Prof.Nirav B. Patel
No. of Students	29
No. of Faculties	02
Description	The MG Nurture program offers a Connected, Autonomous, and Electric Vehicle (CAEV) course to diploma students, providing them with industry-relevant skills and knowledge in the rapidly evolving automotive sector.

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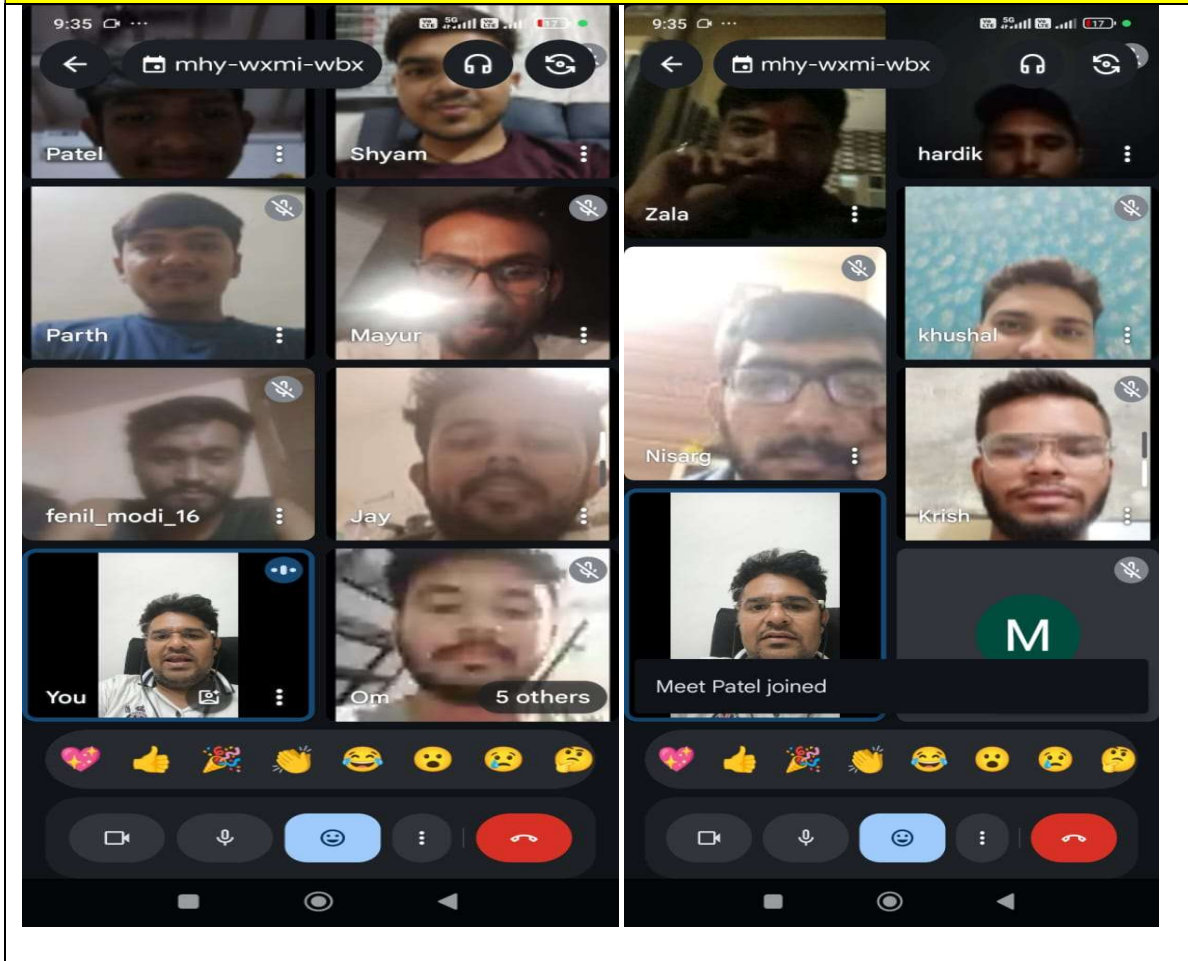
Title of Expert Lecture	Solar Inverter
Date	8/1/2025
Time	3:10 TO 5:10 pm
Venue	NL-1
Expert Speaker	Piyush Miyani
No. of Students	40
No. of Faculties	10
Description	Solar inverters are crucial for diploma students, particularly those studying solar technology or electrical engineering. They are essential for understanding how solar panels work and how to integrate them into a larger electrical system. Understanding solar inverters is vital for designing, installing, maintaining, and troubleshooting solar power systems.

Photographs



Title of Expert Lecture	Webinar on Semiconductor Technology
Date	1/3/2025
Time	9:30 to 10:30 am
Venue	Online
Expert Speaker	Dr. Sankit Kassa
No. of Students	35
No. of Faculties	3
Description	<p>Semiconductor technology is a crucial field for diploma students, especially those in electronics and related engineering disciplines. It focuses on the science and engineering principles behind semiconductor materials, devices, and their applications in modern electronics. For diploma students, understanding semiconductor fundamentals is essential for careers in manufacturing, design, and maintenance of electronic systems.</p>

Photographs



10. Workshop for for students

Title of Expert Lecture	Workshop on Domestic Wiring
Date	18/2/2025 & 19/2/2025
Time	10:30 onwords
Venue	NL-1
Expert Speaker	P.R.Mishra and D.S.Trivedi
No. of Students	40
No. of Faculties	4
Description	Domestic wiring is a crucial subject for diploma students, especially those in electrical or related fields, because it directly relates to the safe and efficient distribution of electricity in homes and buildings. Understanding domestic wiring principles ensures safety, prevents electrical hazards, and promotes energy efficiency, all vital for practical application in the field

Photographs



11. Project Expo - 2025

Title of Expert Lecture	Project Expo
Date	25/04/2025
Time	10:30 On Words
Venue	NL-1
Expert Speaker	Mr. Janak Patel
No. of Students	40
No. of Faculties	8
Description	Project expos are crucial for diploma students as they offer a platform to showcase their technical skills, innovative ideas, and practical application of theoretical knowledge. These events foster networking opportunities, provide valuable feedback, and enhance students' confidence and communication skills, ultimately preparing them for future academic and professional endeavours.

Photographs



12. Training taken by Faculties of Electrical Engineering Department during January – 2025 to June - 2025

Sr. No.	Name of Faculty	Title of Training	Duration of Training	Remarks	Photo of Faculty
1	Mr. J. B. Bhati	Philosophy and Critical Thinking	January – April – 2025 (12 Weeks Course)	MOOC	
2	Mr. R. D. Modi	Philosophy and Critical Thinking	January – April – 2025 (12 Weeks Course)	MOOC	
3	Mr. R. D. Modi	Empowering Educators through Research and Incubation Excellence and NEP insights	01 st June 2025 to 06 th June 2025 (01 Week)	FDP	
4	Mr. D. S. Trivedi	Philosophy and Critical Thinking	January – April – 2025 (12 Weeks Course)	MOOC	
5	Mr. H. S. Darji	Philosophy and Critical Thinking	January – April – 2025 (12 Weeks Course)	MOOC	
6	Mr. P. R. Mishra	Philosophy and Critical Thinking	January – April – 2025 (12 Weeks Course)	MOOC	
7	Mr. P. R. Mishra	Industry 4.0	23 rd June 2025 to 27 th June 2025 (01 Week)	FDP	
8	Mr. A. R. Joshi	Philosophy and Critical Thinking	January – April – 2025 (12 Weeks Course)	MOOC	
9	Mr. S. V. Patel	Philosophy and Critical Thinking	January – April – 2025 (12 Weeks Course)	MOOC	
10	Mr. S. V. Patel	Soft Skill Development	January – April – 2025 (08 Weeks Course)	MOOC	

Sr. No.	Name of Faculty	Title of Training	Duration of Training	Remarks	Photo of Faculty
11	Mr. D. N. Thakkar	Philosophy and Critical Thinking	January – April – 2025 (12 Weeks Course)	MOOC	
12	Mr. D. N. Thakkar	Empowering Educators through Research and Incubation Excellence and NEP insights	01 st June 2025 to 06 th June 2025 (01 Week)	FDP	
13	Mr. R. J. Prajapati	Leadership and Team Effectiveness	January – April – 2025 (12 Weeks Course)	MOOC	
14	Mr. C. B. Patel	Leadership and Team Effectiveness	January – April – 2025 (12 Weeks Course)	MOOC	
15	Mr. H. V. Patel	Leadership and Team Effectiveness	January – April – 2025 (12 Weeks Course)	MOOC	
16	Mrs. B. R. Sevkani	Leadership and Team Effectiveness	January – April – 2025 (12 Weeks Course)	MOOC	
17	Mr. M. S. Patel	Leadership and Team Effectiveness	January – April – 2025 (12 Weeks Course)	MOOC	

**13. Publication of Research Article by faculties during
January – 2025 to June - 2025**

Sr. No.	Name of Faculty	Title of Research Article	Name of Journal	ISSN No. & Index	Issue & Volume	Photo of Faculty
1	Mr. R. D. Modi	Solar Energy Blended Main grid and Hybrid Energy Storage System for Electric Vehicle Charging System	Journal of Engineering and Technology Management	1879 – 1917 (Scopus Indexed)	2025, Volume 76	
2	Mr. R. D. Modi	Photo Voltaic Array Integrated with Main grid and Hybrid Energy Storage System for Electric Vehicle Charging System	India's Biggest Virtual Conference on "Sustainable Development Goals 2030: Bridging Gaps, Building Futures for Viksit Bharat@2047"	International Multi-disciplinary, Multi Linguistic Online Conference	18 th February 2025 to 22 nd February 2025	
3	Mr. D. S. Trivedi	Stability Analysis in Power System using Energy Preserving Function	International Research Journal of Engineering and Technology	2395-0056 (Online) 2395-0072 (Print)	Volume – 12, Issue – 06, June – 2025	
4	Mr. P. R. Mishra	Simulation base High switching frequency H-Bridge 5 Level Multilevel Inverter using level shifted in phase disposition (IPD) Modulation	International Journal for Research in Applied Science & Engineering Technology	2321-9653	Volume – 13, Issue – 11, February - 2025	
5	Mr. A. R. Joshi	Stability Analysis in Power System using Energy Preserving Function	International Research Journal of Engineering and Technology	2395-0056 (Online) 2395-0072 (Print)	Volume – 12, Issue – 06, June – 2025	

**14. Placement data of Electrical Engineering Program during
January – 2025 to June - 2025**

Sr. No.	Enrolment No.	Name of Student	Name of Company
1	226310309071	VANZARA DHAVAL KANUBHAI	TORRENT POWER LTD
2	226310309013	KHUSHAL SANJAYKUMAR MODI	TORRENT POWER LTD
3	236318309016	SAURABHKUMAR PRAVINBHAI PATEL	TORRENT POWER LTD
4	226310309022	PATEL HETUL KAMLESHBHAI	TORRENT POWER LTD
5	226310309011	MANSURI MOHAMMAD ZAKI ZAKIR HUSEN	TORRENT POWER RENEWABLE ENERGY
6	236318309031	KARANSING MANGAJI SOLANKI	TORRENT POWER RENEWABLE ENERGY
7	236318309033	KRUMILKUMAR GAUTAMBHAI SUTHAR	TORRENT POWER RENEWABLE ENERGY
8	226310309022	PATEL HETUL KAMLESHBHAI	TORRENT POWER RENEWABLE ENERGY
9	226310309006	JAY ASHOKKUMAR JOSHI	TATA PASSENGER ELECTRIC MOBILITY
10	226310309054	BIJALBEN VIPULKUMAR SUTHAR	TATA PASSENGER ELECTRIC MOBILITY
11	226310309058	THAKOR JAYDIP PRAHLADJI	TATA PASSENGER ELECTRIC MOBILITY
12	226310309052	RAVI ASHOK BHAI SONI	TATA PASSENGER ELECTRIC MOBILITY
13	236318309022	VEDANT RATILAL PATEL	TATA PASSENGER ELECTRIC MOBILITY
14	226310309035	SHUBH HASMUKHBHAI PATEL	TATA PASSENGER ELECTRIC MOBILITY
15	236318309018	PATEL SHREY GHANSHYAMBHAI	TATA PASSENGER ELECTRIC MOBILITY
16	226310309006	JAY ASHOKKUMAR JOSHI	SOLAR INDUSTRY
17	226310309006	JAY ASHOKKUMAR JOSHI	AUSTRALIAN PREMIUM SOLAR(INDIA) LIMITED
18	236318309018	PATEL SHREY GHANSHYAMBHAI	AUSTRALIAN PREMIUM SOLAR(INDIA) LIMITED
19	226310309072	OM CHETANKUMAR VYAS	AUSTRALIAN PREMIUM SOLAR(INDIA) LIMITED
20	236318309018	PATEL SHREY GHANSHYAMBHAI	AVOCAB BY CHANDRESH CABLE LTD.
21	236318309018	PATEL SHREY GHANSHYAMBHAI	ALPHA-TECH AUTOMATION

15. Creative Corner

Sketches by Shri R. J. Prajapati, Lecturer in Electrical Engineering Department



Shri J. B. Bhati
Editor in Chief
E-Newsletter (SPARK)