

K. D. POLYTECHNIC, PATAN.

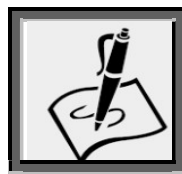


ELECTRICAL ENGINEERING

(NBA Accredited Program)



E - News Letter



(Edition - 10th: 01/07/2025 to 31/12/2025)

(Term: 251)

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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 **10th edition** of our **E-Newsletter (SPARK)** of electrical engineering department for the duration of July – 2025 to December – 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	Solanki Heli M. (Semester – 5 th , Electrical Engineering)
	Patel Neel K. (Semester – 5 th , Electrical Engineering)
	Thakor Riyaben H. (Semester – 3 rd , Electrical Engineering)
	Jayswal Bhavy M. (Semester – 3 rd , Electrical Engineering)
	Shrimali Happy D. (Semester – 1 st , Electrical Engineering)
	Suthar Krishil S. (Semester – 1 st , 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 2) Prof. Chaskar Madhavrao Uttam	----- Chairperson 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



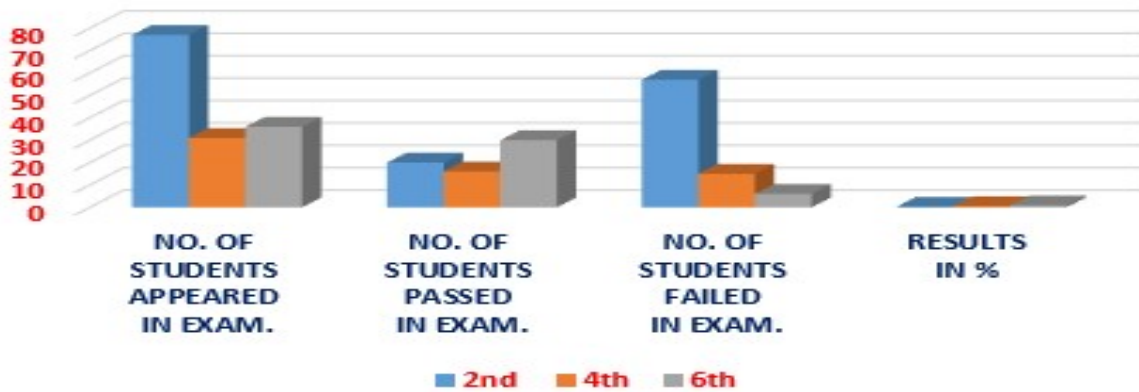
5. Highlights and Staff positions of Electrical Engineering Program

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 – 2nd, 4th, and 6th of the Term-242 (Summer – 2025)

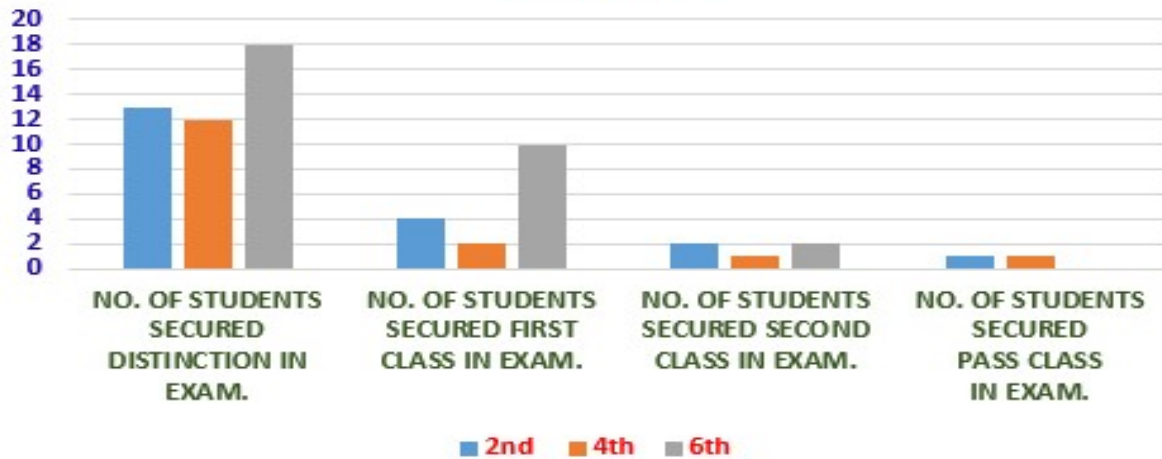
Sr. No.	Semester	No. of Students Appeared in Exam.	No. of Students Passed in Exam.	No. of Students Failed in Exam.	Result in %
1	2 nd	77	20	57	25.97 %
2	4 th	31	16	15	51.61 %
3	6 th	36	30	6	83.33 %

OVERALL RESULT ANALYSIS OF TERM-242






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	2 nd	13	4	2	1
2	4 th	12	2	1	1
3	6 th	18	10	2	0

SECURED CLASSWISE RESULT ANALYSIS OF TERM-242





**7. Sparkling Stars of Electrical Engineering Program of GTU Exam.
Semester – 2nd, Summer – 2025 (Term – 242)**




SPI Toppers of 2nd Semester: (Term-242)

Sr. No.	Enrolment No.	Student's Name	SPI Secured by student	Rank secured by student	Student's Photo
1	246310309067	PRAJAPATI NEEL JITENDRAKUMAR	8.50	FIRST	
2	246310309029	KAKANI NILKUMAR RAKESHBHAI	8.10	SECOND	
3	246310309003	BHARVAD CHETANBHAI MAHADEVBHAI	7.95	THIRD	

SPI Toppers of 4th Semester: (Term-242)

Sr. No.	Enrolment No.	Student's Name	SPI Secured by student	Rank secured by student	Student's Photo
1	236310309060	PRAJAPATI PARTHKUMAR MANSUKHBHAI	9.44	FIRST	
2	236310309024	MANSURI MOHAMADSOHEL MOHAMADSAEED	9.00	SECOND	
3	236310309042	PATEL NEEL KAUSHIKKUMAR	9.00	THIRD	

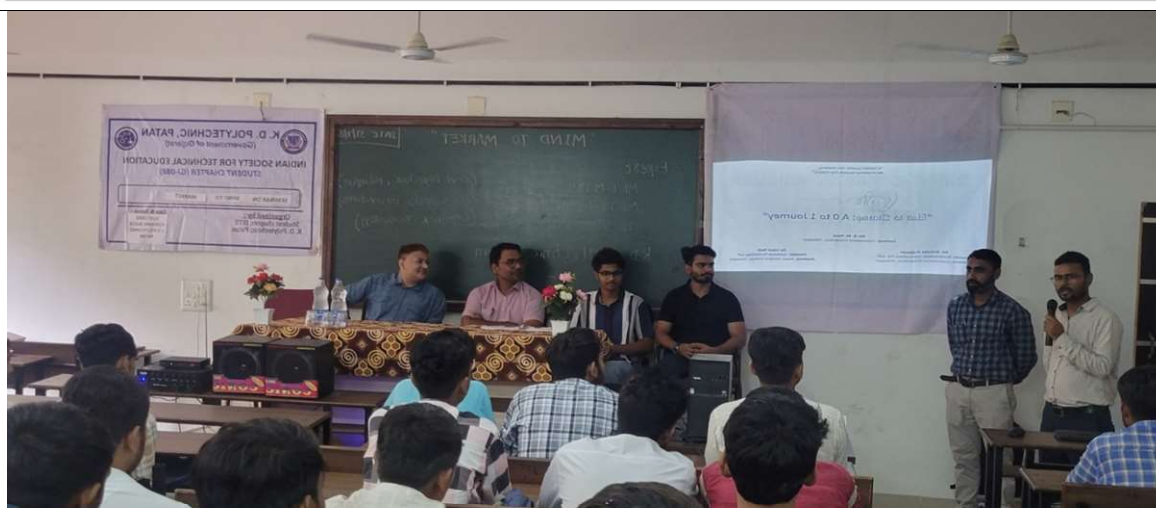
SPI Toppers of 6th Semester: (Term-242)

Sr. No.	Enrolment No.	Student's Name	SPI Secured by student	Rank secured by student	Student's Photo
1	236318309016	PATEL SAURABHKUMAR PRAVINBHAI	9.56	FIRST	
2	236318309031	SOLANKI KARANSING MANGAJI	9.56	SECOND	
3	226310309011	MANSURI MOHAMMADZAKI ZAKIRHUSEN	9.33	THIRD	

8. Expert Talk for students

Title of Expert Lecture	Seminar on Mind to Market
Date	31/7/2025
Time	12:45 pm
Venue	K. D. Polytechnic, Patan
Expert Speaker	Mr. K. R. Patel
No. of Students	28 (Twenty Eight)
No. of Faculties	3 (Three)
Description	"Mind to Market" describes the end-to-end process of taking a creative idea or concept from an initial thought (the "mind") and transforming it into a functional product, service, or solution that is available for purchase in the "market". This process involves brainstorming, research, development, and strategic planning to ensure the final product meets customer needs and achieves commercial success.

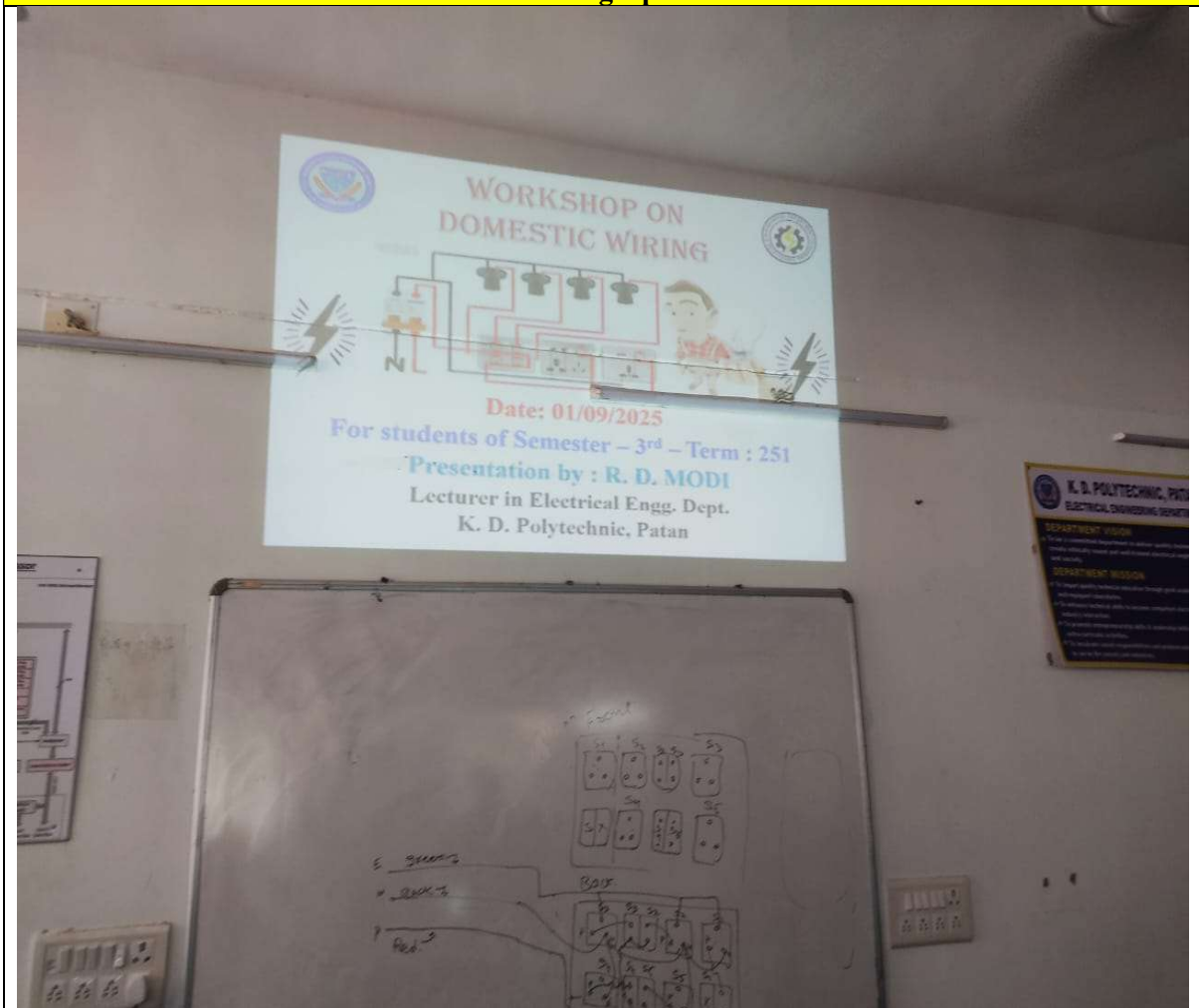
Photographs



9. Workshop for students

Title of Expert Lecture	WORKSHOP ON DOMESTIC WIRING
Date	01/09/2025
Time	01:00 PM TO 04:00 PM
Venue	Electrical Machine Lab. (NL-1), New Laboratory wing, K. D. Polytechnic, Patan.
Expert Speaker	Shri R. D. Modi (LEE) & Shri P. R. Mishra (LEE)
No. of Students	70 (Seventy)
No. of Faculties	02 (Two)
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








10. Training taken by Faculties of Electrical Engineering Department during July – 2025 to December - 2025

Sr. No.	Name of Faculty	Title of Training	Duration of Training	Remarks	Photo of Faculty
1	J. B. BHATI	Educational Leadership	July – 2025 to October – 2025 (12 Weeks)	MOOC	
2	R. D. MODI	Reliability analysis and Optimization of Modern Power Systems	30/06/2025 to 04/07/2025	STTP	
3	R. D. MODI	Development & Research on Novel Engineering in Drones (DRONE-25)	06/10/2025 to 10/10/2025	STTP	
4	R. D. MODI	Introduction to Advanced Cognitive Processes	August – 2025 to October – 2025 (8 Weeks)	MOOC	
5	D. S. TRIVEDI	Introduction to Advanced Cognitive Processes	August – 2025 to October – 2025 (8 Weeks)	MOOC	
6	H. S. DARJI	Soft Skill Development	July – 2025 To September – 2025 (8 Weeks)	MOOC	
7	P. R. MISHRA	Reliability analysis and Optimization of Modern Power Systems	30/06/2025 to 04/07/2025	STTP	
8	P. R. MISHRA	Introduction to Advanced Cognitive Processes	August – 2025 to October – 2025 (8 Weeks)	MOOC	
9	A. R. JOSHI	Introduction to Advanced Cognitive Processes	August – 2025 to October – 2025 (8 Weeks)	MOOC	
10	D.N.THAKKAR	Mental Health and Wellbeing	July – 2025 to October – 2025 (12 Weeks)	MOOC	

**11. Publication of Research Article by faculties during
July – 2025 to December - 2025**

Sr. No.	Name of Faculty	Title of Research Article	Name of Journal/ Conference	ISSN No. & Index	Issue & Volume	Photo of Faculty
1	Mr. R. D. Modi	Optimization of Multiple Renewable Energy Sources integrated with main grid and Hybrid Energy Storage System for Electric Vehicle Charging System	2 nd International Conference on “Innovation in Science, Engineering and Technology” (ISET-2025)	ISSN: 2454 – 2024 (Online)	Volume X, Issue X, October - 2025	
2	Mr. R. D. Modi	A Bird View on Synchronization Strategy for Orthogonal Frequency Division Multiplexing (OFDM)	International Journal for Technological Research Engineering	ISSN: 2347 – 4718 (Online)	Volume 13, Issue 1, September - 2025	
3	Mr. R. D. Modi	A Bayesian Classifier approach to optimize controller for efficient power management for Electric Vehicle charging system	4 th International virtual Multidisciplinary Conference “ From Gurukul to Global: Paving the path to Viksit Bharat@2047 – Restructing Higher Education with Indic Priorities”	-----	27 – 28 December 2025	

**12. Placement data of Electrical Engineering Program during
July – 2025 to December - 2025**

Sr. No.	Enrolment No.	Name of Student	Name of Company
1	226310309013	KHUSHAL SANJAYKUMAR MODI	Torrent Power Ltd, Ahmedabad
2	236318309016	SAURABHKUMAR PRAVINBHAI PATEL	Torrent Power Ltd, Ahmedabad
3	226310309022	PATEL HETUL KAMLESHBHAI	Torrent Power Renewable Energy
4	226310309011	MANSURI MOHAMMAD ZAKI ZAKIR HUSEN	Torrent Power Renewable Energy
5	236318309033	KRUMILKUMAR GAUTAMBHAI SUTHAR	Torrent Power Renewable Energy
6	226310309065	TRIVEDI JAINEESH KALPESHKUMARKUMAR	Suzuki Motor Gujarat Pvt. Ltd.
7	236318309019	PATEL SHYAM MUKESHBHAI	Suzuki Motor Gujarat Pvt. Ltd.
8	226310309054	SUTHAR BIJALBEN VIPULKUMAR	Zydus Lifesciences Ltd.
9	236318309036	TRIVEDI NISARG RAKESHKUMAR	Honda Motorcycle and Scooter India Pvt. Ltd
10	226310309006	JOSHI JAY ASHOKKUMAR	Honda Motorcycle and Scooter India Pvt. Ltd
11	226310309034	PATEL PURV KIRITKUMAR	TDSG
12	236318309018	PATEL SHREY GHANSHYAMBHAI	AVOCAB BY CHANDRESH CABLE LTD.

13. Creative Corner

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



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