

# We VoLTE

Volume 3 Issue 1

Synchronizing The Future



By Editorial Board  
Rajkiya Engineering College, Ambedkar Nagar

# Magazine of Electrical Engineering Department

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# Electrical Department Magazine

## A MEMORANDUM FROM EDITORIAL BOARD

If January 2023 was a "clean slate," then 2024 was a masterclass in resilience and redemption. As engineers, we often talk about efficiency and steady states, but this year taught us the power of the "Undefeated Streak." Just as the Indian Cricket Team transformed a decade of heartbreak into a historic, unbeaten 2024 T20 World Cup glory on June 29, we as a department have found our winning rhythm. This magazine, "We VoLTE," serves as the highlight reel for the 24-25 batch—capturing the moments where our technical logic met our creative spark.

A college is far more than a physical structure of bricks and mortar; it is a sanctuary that beholds countless stories, hard-won lessons, and a spectrum of experiences—both good and bad. It stands as one of the few environments that truly allows us the grace to make mistakes and, more importantly, the opportunity to learn from them. This institution represents the final stage where our dedicated faculty members work tirelessly to help us refine our characters and skills. While the journey of life is eternal, college serves as the definitive threshold before we step into the complexities of the "real world". It is here that we are taught to navigate both the virtues and the challenges of the world beyond these walls. The journey of this magazine has matured into a significant tradition, made possible by the unwavering support of the Electrical Engineering Department faculty members. We extend our deepest gratitude to our mentors, especially **Dr. Mohammed Aslam Husain**, whose consistent direction and ability to troubleshoot our creative "faults" have been the bedrock of this project. Our teachers have acted as the primary controllers of our progress, pointing out our mistakes and providing the most efficient solutions to help us grow. A special thank you goes to the contributors of the 24-25 batch who fueled this issue with their articles, art, and research. We are equally grateful to the entire student body for their diverse support in every form imaginable.

## OUR TEAM

FACULTY COORDINATOR AND THE EDITORIAL CONVENER: Dr. MOHAMMED ASLAM HUSAIN

EDITORIAL STUDENT COORDINATOR: KUSHAGRA KAUSHIK, KAVYA SHARMA

Department at a glance

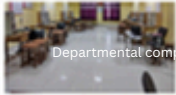
# ELECTRICAL ENGINEERING DEPARTMENT



Microprocessor Lab



Network Lab



Departmental computer lab



Power System Lab



Communication Lab



Electronics Lab



Electrical Workshop Lab



Instrumentation Lab



Electrical Measurement Lab



Electric Drives Lab



Microprocessor Lab



Network Lab



Power System Lab



Power System Lab



Renewable Energy Lab



# Rajkiya Engineering College

Ambedkar Nagar Uttar Pradesh



## DEPARTMENT OF ELECTRICAL ENGINEERING

### VISION

- *To impart knowledge in Electrical Engineering by upbringing globally competent engineers, innovators and entrepreneurs instilled with the human values and professional ethics.*

### MISSION

- *To offer good quality education & research in Electrical Engineering.*
- *To provide the knowledge base and consultancy services to the rural and weaker section of the society for their upliftment and well-being.*
- *To bridge the gap between industry and academia by framing curriculum and syllabus based on industrial and societal*



## Message from Head of Department

It gives me immense pleasure to introduce the 2024-25 edition of WE VOLTE, the official magazine of the Department of Electrical Engineering at Rajkiya Engineering College, Ambedkar Nagar.

We are currently witnessing a transformative era in the global energy landscape. The shift toward Sustainable Energy, the integration of Smart Grids, and the rise of Electric Mobility are no longer future concepts—they are the realities defining our profession today.

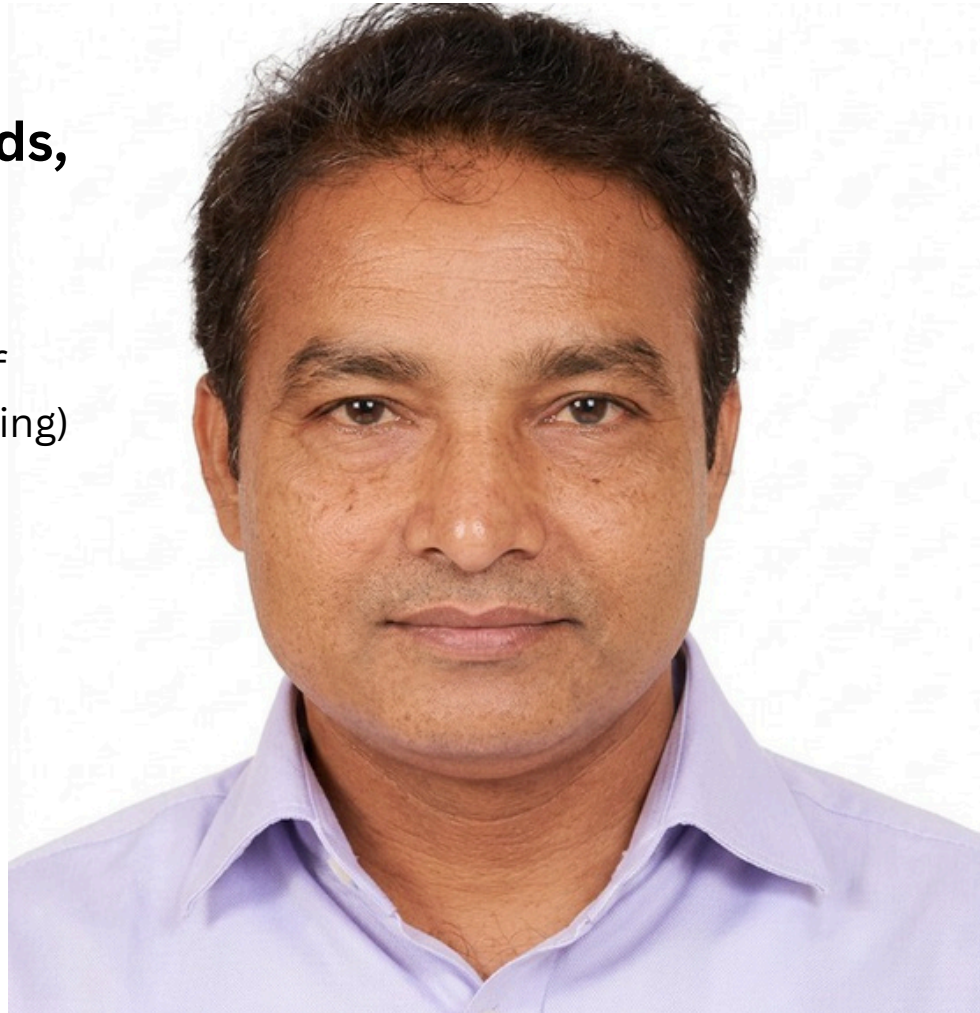
I congratulate the editorial team and the student contributors for capturing the intellectual spirit of our department so vibrantly in these pages. May this edition serve as a spark for new ideas and a celebration of our collective achievements.

**Warm regards,**

**Dr.SP Singh**

HoD

(Department Of  
Electrical Engineering)





Hello Students,

It is a distinct pleasure to welcome you to the 2024-25 edition of WE VOLTE, the official magazine of the Department of Electrical Engineering at Rajkiya Engineering College, Ambedkar Nagar. As the Convener of this publication, I have had the privilege of witnessing the immense creative energy and intellectual rigor our students have poured into these pages.

The articles, research highlights, and creative contributions within this edition are more than just ink on paper; they are a testament to our department's commitment to excellence and forward-thinking. This magazine serves as a bridge between the classroom and the cutting edge of industry.

I would like to extend my heartfelt gratitude to the editorial team, our faculty mentors, and our Head of Department, Dr. S.P. Singh, for their unwavering support in making this vision a reality. Most importantly, I thank our students for their relentless pursuit of knowledge and their willingness to share their insights with our community.



**Dr. Mohammed  
Aslam Husain**

FACULTY COORDINATOR  
AND THE EDITORIAL  
CONVENER  
&  
ASSISTANT PROFESSOR



# OUR DEPARTMENT FACULTY



## **Dr.SP Singh**

Associate Proffesor (Regular)  
Headofthe department EE  
Qualifications: B.E., M.Tech.(MNNIT,  
Allahabad), Ph.D. (MNNIT, Allahabad)

## **Dr. Yudhishtir Pandey**

Assistant Proffesor(Regular)  
Qualifications:B.E, M.Tech (IIT Delhi),  
Ph.D. (Jamia Millia Islamia New Delhi)



## **Dr. Arif Iqbal**

Assistant Proffesor (Regular)  
Qualifications:Ph.D. (IIT Roorkee), M.Tech.  
from AMU Aligarh, B. Tech. from AMU



## **Mr. Sonu Kumar**

AssistantProffesor (Regular)  
Qualificatio:B.Tech, M.Tech  
(NIT Hamirpur)





## **Dr. Mohammed Aslam Husain**

Assistant Professor (Regular)

Qualifications: Ph.D.(AMU), M.Tech.  
(AMU), B.Tech (AMU)

## **Dr. Lokesh Kumar Yadav**

Assistant Professor (Regular)

Qualifications: M.Tech (NIT Patna), Ph.D.  
(IIT BHU)



## **Dr. Sanjay Agrawal**

Assistant Professor (Regular)

Qualifications: Ph.D (MNNIT Allahabad),  
M.Tech(NIT Hamirpur), B.Tech (UCER  
Allahabad)



## **Dr. Vikas Patel** (On deputation at AKTU, LKO)

Assistant Professor (Regular)

Qualifications: M.Tech (MMMUT  
Gorakhpur), Ph.D. (Pursuing)





## **Mr. Piyush Patel**

Assistant Professor (Guest Faculty)

Qualifications: B.Tech (SRMCEM Lucknow), M.Tech (MMMUT Gorakhpur)

## **Mr. Anjul Kumar**

Assistant Professor (Guest Faculty)  
Qualifications: M.Tech (GBU, Greater Noida)



PRESENTING

AMPLIFYING THE CREATIVE  
SIGNAL

THE ARTISTRY OF ELECTRICAL  
ENGINEERING

"Where Logic Meets  
Imagination."

By: Kushagra Kaushik & Kavya Sharma

We VoLTE

A place where hard work wins

**"Scientists study the world as it is;  
engineers create the world that has  
never been."**



## **THE MAN WHO VISUALIZED FUTURE**

By: **Kushagra Kaushik**  
EE 2<sup>ND</sup> YEAR

**The Father of Wireless:** Long before Wi-Fi, Tesla was obsessed with wireless energy. In 1901, he began building the Wardenclyffe Tower, intending to transmit free electricity and messages across the Atlantic without wires.

**Wireless Visionary:** In a 1926 interview, he accurately predicted the modern smartphone, describing a device that would allow us to see and hear one another regardless of distance and would be small enough to fit in a vest pocket.

**A "Human Computer":** Tesla had a photographic memory. He could memorize entire books and detailed 3D blueprints. He rarely drew his inventions; he built them entirely in his mind and "tested" them there before ever touching a tool.

**Artificial Lightning:** While working in Colorado Springs, Tesla created bolts of artificial lightning that were 135 feet long—a record that stood for decades. The thunder from his experiments could be heard 15 miles away.



**The "Earthquake" Machine:** He once created a small mechanical oscillator that, when attached to his laboratory wall, vibrated so intensely it nearly brought the building down, leading neighbors to call the police reporting an earthquake.

**He was "Born of the Storm":** Tesla was literally born during a fierce lightning storm at midnight (between July 9 and 10, 1856). Family legend says the midwife panicked, calling the lightning a bad omen and saying, "This will be a child of darkness." Tesla's mother, Djuka, replied:

**"No. He will be a child of light."**

- **He Predicted the "Global Brain" (The Internet)**
- Long before the first computer, Tesla described a world where the entire Earth would be converted into a "great brain." In 1926, he said: "We shall be able to communicate with one another instantly, irrespective of distance... and the instruments through which we shall be able to do all this will be amazingly simple compared with our present telephone."

- **Remote Control (Teleautomation):** In 1898, he debuted a radio-controlled boat at Madison Square Garden. People were so shocked they thought it was magic, telepathy, or a trained monkey inside the boat.



- **X-Rays:** He was experimenting with "shadowgraphs" at the same time as Wilhelm Röntgen and even warned about the dangers of excessive exposure to "inner rays."

- **His Obsession with "3, 6, 9"**

Tesla was convinced these three numbers held the key to the universe. He famously stated, "If you only knew the magnificence of the 3, 6, and 9, then you would have a key to the universe."

- Tesla claimed he never slept for more than two hours a night. He would often work through the night in a state of "flow," sometimes going for 84 hours straight without rest.

# THE RESURGENCE : INDIA'S HISTORIC T20 WORLD CUP

TRIUMPH "FROM HEARTBREAK IN AHMEDABAD TO REDEMPTION IN BARBADOS"

By: Kavya Sharma  
EE 2<sup>ND</sup> YEAR

## The Final Frontier:

On June 29, 2024, at the Kensington Oval in Barbados, the Indian Cricket Team scripted a fairy tale. In a nail-biting final against South Africa, India defended a target of 176 to win by 7 runs, becoming the first team in history to win the T20 World Cup while remaining undefeated throughout the tournament.



## Key Moments that Defined the Glory:

- **The King's Masterclass:** After an early slump, Virat Kohli delivered a legacy-defining 76 runs off 59 balls, earning him the Player of the Match award in his final T20I appearance.
- **The Wall of Defense:** Jasprit Bumrah was the backbone of the bowling attack, taking 15 wickets in the tournament with an unbelievable economy rate, rightfully earning the Player of the Tournament title.
- **The "Catch" of a Lifetime:** With 16 runs needed in the final over, Suryakumar Yadav pulled off a breathtaking catch at the long-off boundary to dismiss David Miller—a moment now etched in cricketing history.
- **The Ice-Man Finish:** Hardik Pandya held his nerve in the final over, defending the target and sparking nationwide celebrations.



## A Legacy of Legends

This victory marked the end of an era as icons Rohit Sharma, Virat Kohli, and Ravindra Jadeja announced their retirement from T20 Internationals, leaving the stage to the next generation of champions.

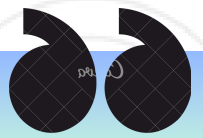


# PLACEMENT FOR THE YEAR

RAJKIYA ENGINEERING COLLEGE AMBEDKAR NAGAR UTTAR PRADESH - 0731  
DEPARTMENT OF ELECTRICAL ENGINEERING

**RINEX** Congratulations **ixamBee**  
**meil** 2021-2025 **i Consultin** **PLATINUM**

|  |   |   |  |  |   |  |  |
|--|---|---|--|--|---|--|--|
| <br><b>Vishal Prajapati</b><br>MEII- 3.00 LPA<br>Teachnook - 6.00LPA<br>Platinum Hr-<br>2.40 LPA<br>High Technext-<br>2.50LPA | <br><b>Ravi Kant</b><br>MEII-1.00 LPA<br>Teachnook - 6.00LPA<br>Platinum Hr- 2.40 LPA<br>High Technext-<br>2.50LPA | <br><b>Vimal Kumar</b><br>PlatinumHr-<br>2.40LPA<br>Rinex-6LPA<br>Ixambee-4.5 LPA<br>Econeer -2.50 LPA | <br><b>Shivam Pandey</b><br>Ixambee-<br>4.5 LPA<br>High Technext-<br>2.50LPA                                | <br><b>Amandeep Singh</b><br>MEII- 3.00 LPA<br>Rinex-6LPA<br>PlatinumHr-<br>2.40LPA                     | <br><b>Sachin Kumar</b><br>PlatinumHr-<br>2.40LPA<br>High Technext-<br>2.50LPA    | <br><b>Prashant Kumar Singh</b><br>Rinex-6LPA<br>High Technext-<br>2.50LPA                | <br><b>Ratnasheel Bharti</b><br>High Technext-<br>2.50LPA   |
| <br><b>Mohd Atiqul Amir</b><br>PlatinumHr-<br>2.40LPA<br>High Technext-<br>2.50LPA  | <br><b>Akash Kumar</b><br>Econeer - 2.50 LPA<br>PlatinumHr-2.40LPA<br>High Technext-<br>2.50LPA                  | <br><b>Vineet Kumar</b><br>Econeer - 2.50 LPA<br>Teachnook --6<br>LPA                                | <br><b>Purushottam</b><br>Teachnook -<br>6.00LPA<br>Platinum Hr-<br>2.40 LPA<br>High Technext-<br>2.50LPA | <br><b>Rishabh Prakash</b><br>MEII- 3.00 LPA<br>Platinum Hr-<br>2.40 LPA<br>High Technext-<br>2.50LPA | <br><b>Saurabh Prajapati</b><br>High Technext-<br>2.50LPA                       | <br><b>Harsh Negam</b><br>Ixambee-4.5<br>LPA<br>Rinex-6LPA<br>High Technext-<br>2.50LPA | <br><b>Shiv Shakti Dwivedi</b><br>Econeer -2.50 LPA<br>Ixambee-4.5 LPA<br>Rinex-6LPA<br>High Technext-<br>2.50LPA   |
| <br><b>Anveesh Jaiswal</b><br>Econeer - 2.50 LPA<br>PlatinumHr-<br>2.40LPA<br>MEII- 3.00 LPA                                | <br><b>Manish Kumar</b><br>PlatinumHr-<br>2.4LPA<br>High Technext-<br>2.50LPA                                    | <br><b>Kaushal Singh</b><br>PlatinumHr-<br>2.40LPA<br>Rinex-6LPA                                     | <br><b>Pushpendra Gautam</b><br>Teachnook - 6.00LPA<br>PlatinumHr-<br>2.40LPA<br>High Technext-2.50LPA    | <br><b>Ranjeet Kumar</b><br>PlatinumHr-<br>2.40LPA<br>High Technext-<br>2.50LPA                       | <br><b>Pankaj Pratap</b><br>PlatinumHr-<br>2.40LPA<br>High Technext-<br>2.50LPA | <br><b>Ramji Gupta</b><br>High Technext-<br>2.50LPA                                     | <br><b>Anand Maurya</b><br>MEII- 3.00 LPA<br>Teachnook - 6.00LPA<br>PlatinumHr-2.40LPA<br>High Technext-<br>2.50LPA |
| <br><b>Shreyash Kumar</b><br>Rinex-6LPA   | <br><b>Deshdeepak Chaudhary</b><br>MEII- 3.00 LPA<br>PlatinumHr-<br>2.40LPA<br>High Technext-<br>2.50LPA         | <br><b>Nishant Tuwari</b><br>MEII- 3.00 LPA<br>PlatinumHr-2.40LPA<br>Rinex-6LPA                      | <br><b>Aakash Godia</b><br>PlatinumHr-<br>2.40LPA<br>Rinex-6LPA   | <br><b>Rahul Kumar</b><br>MEII- 3.00 LPA<br>PlatinumHr-<br>2.40LPA<br>High Technext-<br>2.50LPA       | <br><b>Divanshu</b><br>PlatinumHr-<br>2.40LPA                                   | <br><b>Ashutosh Kumar</b><br>High Technext-<br>2.50LPA                                  | <br><b>Shiva kant Maurya</b><br>ji Consulting Pvt.<br>Ltd. 4.21LPA<br>High Technext-<br>2.50LPA                     |
| <br><b>Abhay Ambedkar</b><br>High Technext-2.50LPA  | <br><b>Aniruddh Chaubey</b><br>High Technext-<br>2.50LPA   | <b>Thank You</b>  |  | <br><b>Praveen Kumar</b><br>MEII- 3.00 LPA<br>PlatinumHr-2.40LPA                                    |   |  |  |



## Honoring Excellence:

**Dr. S.P. Singh.**

The Department of Electrical Engineering beams with pride as we celebrate this monumental achievement of our Head of Department, Dr. S.P. Singh. Being conferred with the Best Teacher Award by Dr. A.P.J. Abdul Kalam Technical University (AKTU) is a testament to his decades of academic rigor, visionary leadership, and unwavering commitment to student success.



**Dr. .S.P SINGH**

HoD  
(Department Of  
Electrical  
Engineering)



# ***THE EDITORIAL COMMITTEE***

"This publication would not have been possible without the tireless dedication of our Editorial Committee. Their commitment to deep research and technical accuracy has transformed a collection of ideas into the comprehensive resource you hold today.

## **FACULTY COORDINATOR AND THE EDITORIAL CONVENER**

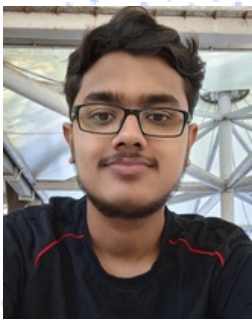


**Dr. Mohammed  
Aslam Husain**

Assistant Professor, Dept. of EE

A "Execution is nothing without the research to back it up. We owe a massive debt of gratitude to our Editorial Committee for their exhaustive research and editorial precision.

## **EDITORIAL STUDENT COORDINATOR**



**Kushagra Kaushik**

Btech EE 2<sup>nd</sup> year



**Kavya Sharma**

Btech EE 2<sup>nd</sup> year

# FEW QUOTES FOR MOTIVATION

राह संघर्ष की जो  
चलता है,  
वो ही संसार को  
बदलता हैं,  
जिसने रातों से है  
जंग जीती..  
सुबह सूर्य बनकर  
वही चमकता है

