

ISSUE 5 VOL. 1

TECH-WIRED

ODD SEMESTER
MAGAZINE
2023-2024



<https://rrimt.ac.in>

CONTENTS

- 01** FROM THE CHAIRMAN'S DESK
- 02** FROM THE DIRECTOR'S DESK
- 03** FROM THE H.O.D. DESK
- 04** FROM THE MAGAZINE FACULTY COORDINATOR
- 05** DEPARTMENT MISSION VISION
- 07** ABOUT ELECTRICAL ENGINEERING DEPARTMENT
- 10** WORKSHOP ON PLC
- 11** UPPCL SUBSTATION VISIT
- 12** GUEST LECTURE ON DC TRANSMISSION SYSTEM
- 13** VISIT @ RAMESHWAR DAS RAM NIWAS GROUP OF INDUSTRIES
- 14** VISIT @ EKOS LIGHT
- 15** MINI PROJECT
- 16** OUT TOPPER OF 2022-2023
- 17** HIGHEST ATTENDANCE RECORD
- 18** ELECTRIX POST HOLDERS

FROM THE CHAIRMAN'S DESK



Shri Anil Kumar Agarwal
Chairman

Congratulations to the Electrical Engineering Department for the successful release of the latest issue of our magazine. This edition showcases the department's commitment to excellence and innovative research. I extend my heartfelt appreciation to our talented students and faculty members for their remarkable contributions. Enjoy this inspiring read, and keep up the great work!

FROM THE DIRECTOR'S DESK



(Prof. (Dr.) Surya Prakash Tripathi)
Director

I am delighted to announce that the Department of Electrical Engineering is publishing its odd semester magazine, "TECH-WIRED," for the 2023-2024 session. It brings me great joy to contribute a few words to this publication, which showcases the latent writing skills of our students on various recent technical fields of research. This magazine is not only a valuable technical resource but also a tool for developing essential skills among our students.

The odd semester 2023-2024 issue of our Magazine will be a milestone for the Department of Electrical Engineering, just as the previous issue was. It will provide students with the opportunity to strengthen their knowledge, unleash their creativity, and collaborate effectively as a team. This magazine also fulfills the dreams of a great visionary, philosopher, and role model for young people, whom I am honored to quote:

"Live as if you were to die tomorrow. Learn as if you were to live forever."

-Mahatma Gandhi

With my good wishes and great success for the future.

FROM THE HEAD OF DEPARTMENTS'S DESK



Mr. K.P. YADAV
Assistant Professor and Head
Dept. of Electrical Engineering

On behalf of our esteemed students and faculty, it is my utmost pleasure to extend a warm welcome to each and every one of you to the renowned Department of Electrical Engineering at RRIMT. We take immense pride in our exceptional faculty, comprising a team of highly skilled and devoted professionals, the majority of whom possess academic and industrial expertise along with degrees from prestigious universities across India. We strive to provide abundant opportunities for growth and development to both our faculty and students, offering in-house training, workshops, and

external programs that enhance their expertise in respective fields.

I am elated to share that our department has recently embarked on a remarkable endeavor by launching the odd-semester magazine "TECH-WIRED." This initiative is expected to ignite a sense of enthusiasm and inspiration among our students and staff, fostering a spirit of innovation and knowledge sharing in the days to come.

MESSAGE FROM MAGAZINE FACULTY COORDINATOR



Mr. Mahtabul Haque
Assistant Professor
Dept. of Electrical Engineering

I wholeheartedly congratulate the students of the ELECTRIX Society for their initiative and contributions to this edition of the Electrical Engineering Department's semester magazine, 'TECH-WIRED' 2023-2024. It is a great pleasure to present this issue of 'TECH-WIRED'. Magazines like this provide a fantastic platform for electrical engineering students to express their hidden talents, ideas, and thoughts through articles, poems, and reflections on life and experiences both inside and outside the campus. This issue demonstrates that technical minds excel not only in engineering but also in creative writing and philosophical expression.

The eco-friendly nature of the magazine is a remarkable concept. Working with the editorial team and witnessing these creations come to life has been a wonderful experience. I extend my heartfelt thanks to our Chairman sir, Director sir as well as to our HODs, faculty members, and staff for their invaluable contributions. I sincerely hope that you enjoy reading this magazine and feel inspired by the amazing work within. Keep up the great work, and continue to shine!

DEPARTMENT VISION



VISION

To emerge as centre of excellence in the field of electrical engineering to enhance the technical and professional skills of the students and make them competent enough to cater the multidisciplinary needs of the academia, industry and society with strong moral and ethical values.

DEPARTMENT MISSION

M1- To provide an environment for effective teaching-learning process with incorporation of multidisciplinary approach to develop competent electrical engineers.



MISSION

M2- To strengthen the students technically & professionally using state of art technology which leads to successful employability, higher education and entrepreneurship.

M3- To foster an inspiring atmosphere which induces a passion for lifelong learning with incorporation of human values and ethics.

Electrical Engineering Department



The Electrical Engineering Department at R.R. Institute of Modern Technology, Lucknow stands out with its exceptional offerings:

1. **Highly qualified and motivated faculty members:** Our department boasts a team of dedicated professors who are experts in their fields. Their vast knowledge and passion for teaching ensure that students receive a top-notch education and guidance.

At the Electrical Engineering Department of R.R. Institute of Modern Technology, we are committed to nurturing the next generation of electrical engineers by providing them with a holistic educational experience and empowering them to excel in their chosen field.

2. **State-of-the-art laboratories and classrooms equipped with projectors:** We provide students with modern facilities, including advanced laboratories and classrooms equipped with projectors. These spaces enhance the learning experience by promoting interactive and immersive teaching methods.

3. **Latest simulation tools available:** Keeping up with technological advancements, our department offers access to cutting-edge simulation tools. Students can utilize these tools to simulate and analyze complex electrical systems, gaining practical experience and problem-solving skills.

4. **Updated course curriculum:** Our department regularly updates the course curriculum to align with industry trends and emerging technologies. This ensures that students receive a relevant and comprehensive education, preparing them for the challenges of the electrical engineering field.

5. **Research-driven opportunities:** We encourage research initiatives within our department. Students have the opportunity to engage in research projects, working alongside faculty members on innovative technologies and contributing to the advancement of knowledge in electrical engineering.

6. **Regular workshops, guest lectures, and industrial visits:** To enrich the learning experience, we organize workshops, invite guest lecturers from academia and industry, and arrange industrial visits. These activities expose students to real-world applications, provide networking opportunities, and broaden their horizons.

At the Electrical Engineering Department of R.R. Institute of Modern Technology, we are committed to nurturing the next generation of electrical engineers by providing them with a holistic educational experience and empowering them to excel in their chosen field.



DEPARTMENTAL ACTIVITIES

WORKSHOPS, SITE VISITS, GUEST LECTURES, AND HANDS-ON TRAINING PLAY A CRUCIAL ROLE IN THE EDUCATION OF ELECTRICAL ENGINEERING STUDENTS. SITE VISITS GIVE STUDENTS A GLIMPSE INTO HOW THEORETICAL CONCEPTS ARE APPLIED IN REAL-WORLD SETTINGS, ENRICHING THEIR PRACTICAL KNOWLEDGE. GUEST LECTURES FROM PROFESSIONALS OFFER A WINDOW INTO EMERGING TECHNOLOGIES AND INDUSTRY TRENDS. HANDS-ON TRAINING PROVIDES DIRECT EXPERIENCE, ENHANCING STUDENTS' JOB READINESS AND DEVELOPING SKILLS THAT ARE RELEVANT TO THE FIELD. COLLECTIVELY, THESE ACTIVITIES HELP BRIDGE THE DIVIDE BETWEEN THEORETICAL LEARNING AND PRACTICAL APPLICATION, BETTER PREPARING STUDENTS FOR THEIR FUTURE CAREERS IN ELECTRICAL ENGINEERING.





ELECTRIX Society of Department of Electrical Engineering has organized one day Workshop - "PLC" on 25th October, 2023. PLC is a trending topic nowadays as well as it is included in the syllabus of Engineering and the intention to implement a mini project on PLC. A Programmable Logic Controller, or PLC, is a ruggedized computer used for industrial automation. These controllers can automate a specific process, machine function, or even an entire production line.

With the zest to have industry academic alliance and to bridge the gap between academics and industry it is necessary to introduce such demanded topics for students as a looking beyond syllabus programs. 2nd , 3rd and 4th year students have attended the workshop.





UPPCL SUBSTATION VISIT

On Dated 05/11/2023, ELECTRIX Society of EED organized the industrial visit to the 33/11 KV UPPCL substation in sitapur, Lucknow, offers an enriching experience for 3rd year students. Witnessing the operations of a real substation provides practical insights into power distribution, transformer functioning, and safety protocols. It enhances their understanding of electrical systems and fosters a deeper appreciation for the power sector's importance in daily life. Great Thanks to Mr. Mahtabul Haque Sir and Mr. Rohit Kumar Gupta sir for mentoring the students. The visit proved highly beneficial as it allowed students to bridge the gap between theory and practice, while also igniting their enthusiasm for the subject.





GUEST LECTURE ON "DC TRANSMISSION SYSTEM"

ELECTRIX Society of Electrical Engineering Department has successfully organized Guest Lecture on "DC-Transmission System" on 21st November, 2023 by Dr. Faizan Arif Khan, Professor, Integral University, Lucknow. Dr. Faizan Khan has covered syllabus topics including Transmission Line Components & under Ground Cabling, Transmission Systems & Performance of Transmission Line. Power flow studies: Formulation of static power flow equations and solutions is using Gauss-Seidel, Newton Raphson and FDLF methods; He also discussed Economic operation of power system- Economic dispatch, Emission dispatch, line loss, ITL, economic dispatch using lagrangian multiplier method. Students were able to understand the new techniques to solve the Power flow studies and terminologies of economic dispatch of power systems and its applications. The workshop was organized by ELECTRIX Society of EED and students were highly satisfied with the lecture series.





ELECTRIX Society of EED organized a One Day Industrial visit to the Rameshwar Das Ram Niwas Group of Industries, Bakshi Ka Talab, Lucknow for B.Tech 4th year students on 04th December 2023. The main objective behind the visit is to make student aware about the importance of automation and the level of its penetration in the field of electrical Engineering. Great Thanks to Mr. Pradeep Kumar sir and Mr. Mahtabul Haque sir for mentoring the students. The visit proved highly beneficial as it allowed students to bridge the gap between theory and practice, while also igniting their enthusiasm for the subject. Introduction took almost an hour which was followed by detailed explanation of automation process including MATLAB and PLC SCADA along with questions of students which was delivered by Mr. Shubham Gupta . We appreciate staff member who guided students by guiding each and every question with detailed answers. It is rightly said that “See & know’ is better than ‘read & learn.



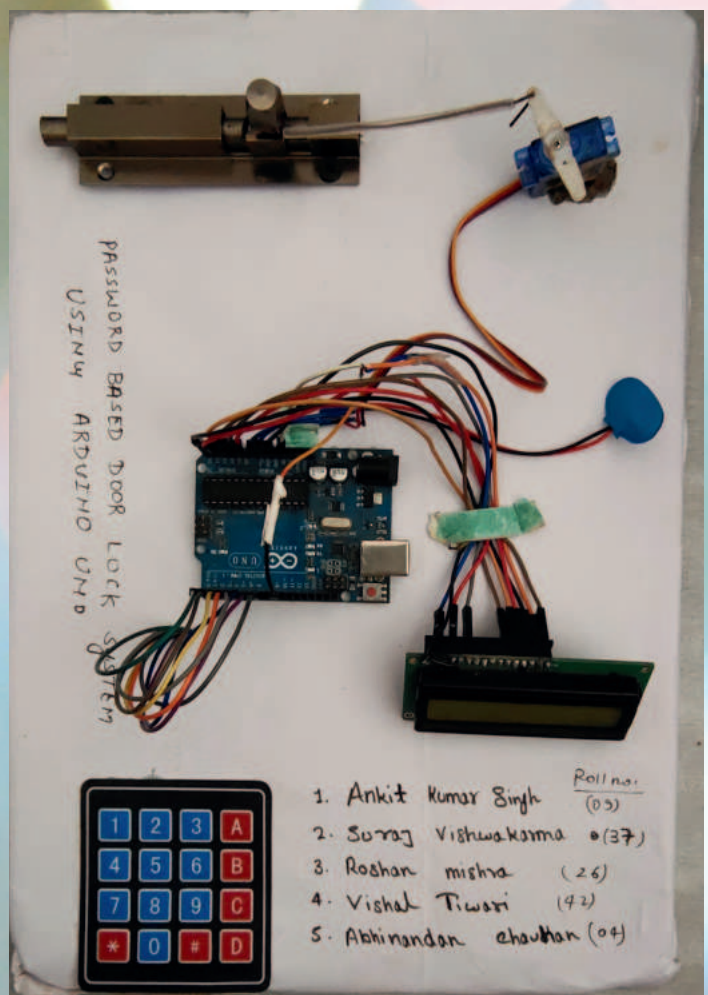
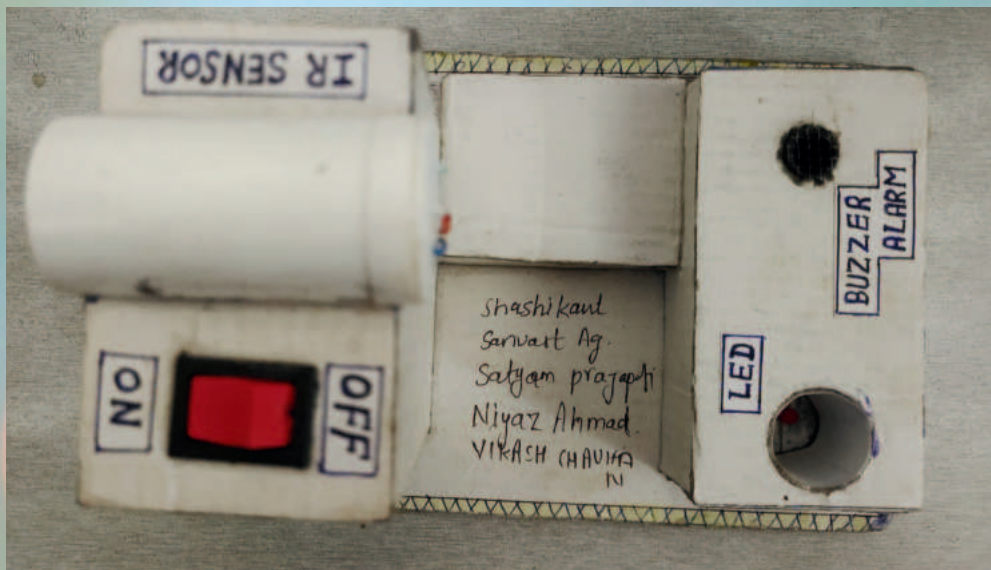


VISIT @ EKOS LIGHT PVT. LTD.

ELECTRIX Society of EED organised a industrial visit to EKOS LED light, Transport nagar, Lucknow for student of 2nd year. Visit offers students firsthand exposure to LED technology, manufacturing processes, and industry insights. It fosters practical learning, networking with professionals, and inspires career aspirations. Students gain real-world understanding, problem-solving skills, and appreciation for sustainability, enhancing their academic and future. Great Thanks to Dr. Malik Rafi sir and Mr. Gaurav Gupta sir for mentoring the students.



BEST MINI PROJECT'S



OUR TOPPERS IN 2022-2023



AMAN YADAV
1st Year



ROHAN CHAURASIA
2ND Year



KM SHIWANGI SINGH
3rd Year



VISHAL KUMAR
4th Year

HIGHEST ATTENDANCE RECORD

S.No.	AKTU Roll No.	Students Name	Attendance %
1	2303610200018	DAKSH PATEL	100.00
2	2303610200011	ANKIT KUMAR	99.14
3	2303610200019	DIPANSHU CHAURASIA	99.14
4	2303610200036	ROHIT SINGH RAWAT	99.14
5	2303610200015	ASHUTOSH TRIPATHI	98.28
6	2303610200016	BALJEET	98.28
7	2303610200034	RAVI RAJPOOT	97.41
8	2303610200042	SHESHNATH RAJBHAR	97.41
9	2303610200057	VISHAL YADAV	97.41
10	2303610200008	ANIKET SINGH	96.55
11	2303610200037	SACHIN KUMAR	96.55
12	2303610200045	SUHAIL ANSARI	96.55
13	2303610200005	AMAN	95.69
14	2303610200012	ANKIT KUMAR JHA	95.69
15	2303610200027	NITESH KUMAR	95.69
16	2303610200032	PRINCE KUMAR	95.69
17	2303610200044	SHRAVAN KUMAR SAINI	95.69
18	2303610200056	VIPIN KUMAR	95.69

ElectriX POST HOLDERS

PRESIDENT	Shashank Verma(4th Year)
VICE PRESIDENT	Parth Mishra (3rd Year)
TREASURER	Mohit Kumar Gautam (3rd Year)
GENERAL SECRETARY	Praveen Kumar (3rd Year)
TECHNICAL SECRETARY	Deepak Kumar (3rd Year)
JOINT SECRETARY	Md. Kaif (2nd Year)
TECHNICAL JOINT SECRETARY	Divyansh Pandey (2nd Year)
MEDIA OUTREACH	Abdurrahman Ansari (4th Year)
	Tej Pratap Pandey (3rd Year)
	Rajneesh Kumar Gupta (2nd Year)

MAGAZINE EDITORIAL COMMITTEE

Editor	Ajeet Kumar (3rd Year)
Co-Editor	Ajad Kumar Gautam (2nd Year)

LIBRARY MANAGEMENT COMMITTEE

Secretary	Ashish Singh (3rd Year)
Member	Gulshan Kumar (2nd Year)



R.R. Institute of Modern Technology

**NH-24 , Bakshi Ka Talab, Sitapur Road,
Lucknow, Uttar Pradesh - 226201**

website : <https://rrimt.ac.in>