

SPNREC CHRONICLES

Quarterly Newsletter of Shri Phanishwar Nath Renu Engineering college, Araria

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### **Editor:-**

Dr. Ritesh Kumar, Assistant Professor





Dear SPNREC Fraternity,

"We welcome you to Shri Phanishwar Nath Renu Engineering College Araria. The aim of this college is to develop human potential to its fullest extent so that intellectually capable and imaginatively gifted leaders can emerge in a range of professions by providing qualitative technical education and exploring latent talent of students. Our students will be the emerging leaders who will help shape tomorrow's world, employing game changing skills with a strong integrity and societal values leading to an all-round winner. SPNREC, The student and faculty members of the institute will give their contribution as excellence in scientific and technical education and research; to serve as a valuable resource for industry and society; and remain a source of pride for the nation.

### Dr. Atma Ram Gupta

Principal SPNREC, Araria

### Editor's Note

Welcome to SPNREC Araria's newsletter Oct-Dec 2023/Vol V. I am delighted to bring you this year's newsletter. Congratulations to all those who have received awards and recognitions since the last edition of the newsletter. This newsletter is not only a showcase of the achievements in the institute as a whole but is also a reflection of the constructive ideas and innovative thoughts of faculty members, staff and students. On behalf of the editorial team, I thank our honourable Principal, Dr. Atma Ram Gupta, faculty members, staffs and students for their willing support in bringing out this newsletter. Hope this volume will convey the key activities conducted during October-December, 2023.

Dr. Ritesh Kumar



### **Painting Competation**







SPNREC , Araria recently hosted a vibrant and inspiring Painting Competition, showcasing the artistic talents of students. The event, held in the college premises, brought together students from various disciplines, all eager to exhibit their creativity on canvas.

The competition saw an enthusiastic participation from students across different years and departments, reflecting the diverse artistic interests present within the college community. With themes ranging from nature and society to abstract expressions of emotions, the event provided a platform for students to explore their artistic inclinations freely.

Judged by a panel of esteemed faculty members, the competition evaluated the paintings based on criteria such as technique, creativity, and adherence to the theme. The judging process was not only rigorous but also appreciative of the unique perspectives and styles demonstrated by each participant.

The atmosphere during the competition was charged with excitement and camaraderie as students shared ideas, techniques, and encouragement with one another. It fostered a sense of unity and collaboration among the participants, emphasizing the role of art in building connections and understanding diverse viewpoints.

The Painting Competition at SPNREC ,Araria not only celebrated the artistic prowess of its students but also highlighted the significance of art as a medium of expression and communication. It served as a reminder of the importance of nurturing creativity and providing platforms for its exploration within educational institutions.

Overall, the event was a resounding success, leaving a lasting impression on both participants and spectators alike. It reinforced the college's commitment to fostering a holistic learning environment that values and promotes the arts alongside academic excellence.

# Joining Of New Faculty



Mr. Kishan Kumar

Asst. Prof. (Dept. of Science & Humanities)



### Dr. Mantu Kumar Singh

Asst. prof. (Dept. of Science & Humanities)



### Mr. Bhagwan Kumar

Asst. Prof. (Dept. of Science & Humanities)



### Mr. Bikky Kumar

Asst. Prof. (Dept. of Science & Humanities)





## **Mathematics Day**

SPNREC located in Araria (BIHAR) has recently marked a momentous occasion with its celebration of Mathematics Day. The event, which was brimming with enthusiasm and scholarly fervor, highlighted the importance and beauty of mathematics in everyday life.

Mathematics Day at SPNREC served as a platform to showcase the significance of mathematical concepts and their applications across various disciplines. The celebration aimed to ignite a passion for mathematics among students and faculty members alike, fostering a deeper appreciation for the subject.

Throughout the day, a series of activities like quiz competition, and cultural event were organized. These activities not only encouraged participants to sharpen their mathematical skills but also provided an opportunity for them to explore the practical implications of mathematical theories. The event also featured presentations by distinguished mathematicians and educators, who shared their insights and experiences, inspiring the audience with the boundless possibilities that mathematics offers.

On the occasion of Mathematics day, winner from the district in Ramanujan Mathematics Talent Search Test were awarded by the Honorable Principal and Chief guest SDM Forbesganj, GM (Araria District).



# 10 Days Workshop On Data Analytics And Machine Learning





SPNREC, Araria proudly organized an immersive 10-day workshop focused on Data Analytics and Machine Learning, aimed at empowering participants with essential skills for today's data-driven world. Renowned industry professionals spearheaded sessions, ensuring in-depth coverage preprocessing, machine learning algorithms, and hands-on practice with real-world datasets. The interactive environment fostered engaging discussions networking, enriching learning Participants received experience. certificates recognizing their proficiency upon successful completion. Keep an eye out for upcoming workshops and events.



Tree Plantation On The Occasion of Gandhi Jayanti





### **Diwali celebration**

"Let's illuminate our college with the spirit of Diwali! Wishing everyone joy, unity, and prosperity as we come together to celebrate this festival of lights."











Diwali, also known as the Festival of Lights, is one of the most widely celebrated festivals in India and among Hindu communities worldwide. It signifies the triumph of light over darkness, good over evil, and knowledge over ignorance.

During Diwali, people decorate their homes with oil lamps, candles, and colorful rangoli patterns to welcome the goddess Lakshmi, who is believed to bring wealth and prosperity. Families come together to exchange gifts, sweets, and greetings, spreading joy and happiness.

The festival also holds cultural and religious significance, with prayers offered to deities like Lakshmi, Ganesh, and Saraswati. Fireworks light up the sky, symbolizing the victory of light over darkness.

Diwali is not just a time for celebration but also a time for reflection, forgiveness, and renewal. It brings communities together, transcending barriers of caste, creed, and religion, fostering unity and harmony.

Overall, Diwali is a time of joy, love, and spiritual renewal, marking the beginning of a new year filled with hope and prosperity.



# Startup Bihar Programme

**SPNREC** Araria proudly introduces the Startup Program Bihar, fostering entrepreneurship and innovation among students. Through workshops, mentorship, and networking opportunities, students gain invaluable skills and support to transform their ideas into successful ventures. Join us in auditorium to explore entrepreneurial opportunities and unleash your potential.









An event was organized by Startup Cell and representative from Department of Industries delivers their view for entrepreneurship. The event provided a platform for budding entrepreneurs to showcase their ideas and network with industry experts. Dr. Kumar's presence inspired participants, adding value to the program. It was a transformative experience, equipping us with skills and motivation for our entrepreneurial journey.

SPNREC, Araria hosted a dynamic session on the Startup Program Bihar in its smart classrooms, with Dr. Ritesh Kumar and Mr. Harsh Kumar. Students gained insights into Bihar's startup ecosystem, including opportunities and challenges, from the experts. The session inspired students to pursue entrepreneurial ventures with passion and determination.









## Quiz Debate and Essay Competition

On the occasion of Mathematics Day, Startup Cell of the Institute organized an outreach activity for the awareness in Innovation and Startup. Information of various schemes of the Startup Bihar were shared and Ideas for the Startup Were collected.

Best three were awarded by the Department of industries. Simultaneously, Quiz competition based on entrepreneurship were conducted followed by the prize distribution ceremony to top three students.







At SPNREC, Araria we believe in fostering holistic development beyond academics. To promote critical thinking and enhance students' skills, we regularly organize various competitions such as essay writing, debates, and quizzes.

Our essay writing competitions provide students with a platform to express their thoughts, ideas, and creativity on diverse topics, encouraging them to refine their writing skills and articulate their perspectives effectively.

Debates at SPNREC , Araria offer students the opportunity to engage in lively discussions, where they learn to construct persuasive arguments, analyze complex issues, and develop their public speaking abilities. These debates not only foster intellectual growth but also promote teamwork and respect for differing viewpoints.

Additionally, our quiz competitions serve as an avenue for students to test their knowledge across various subjects and current affairs. Through these quizzes, students enhance their cognitive abilities, problem-solving skills, and general awareness, while also fostering healthy competition and camaraderie among participants.

Overall, these competitions at SPNREC, Araria play a crucial role in nurturing well-rounded individuals who are not only academically proficient but also possess strong communication skills, critical thinking abilities, and a thirst for knowledge. We are committed to providing our students with opportunities for growth, learning, and self-expression beyond the confines of the classroom.





## **Research And Publications**

### Achievement



### **Journals**

**1.**Singh, S., Saket, R.K., Gupta, A.R. et al. Impact Analysis of Demand Side Management for Maintaining the Voltage Profile of Distribution System. J. Inst. Eng. India Ser. B (2024). https://doi.org/10.1007/s40031-023-00985-x

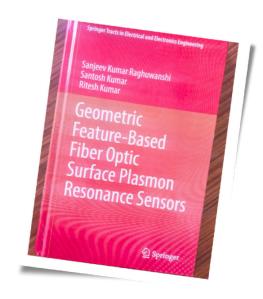
**2.**Raghuwanshi, Sanjeev Kumar, Md Danish Nadeem, and Ritesh Kumar. "Generation of arbitrary microwave waveforms based on a dual-parallel Mach–Zehnder modulator driven by a single sinusoidal RF signal." Optical and Quantum Electronics 56.2 (2024): 263.

**3.**Raghuwanshi, Sanjeev Kumar, Md Danish Nadeem, and Ritesh Kumar. "Generation of arbitrary shape microwave waveform centered on two fold cascaded Mach–Zehnder modulators." Optical and Quantum Electronics 56.1 (2024): 65.

### **International Conferences:**

**1.**Nadeem, M. D., Raghuwanshi, S. K., Raj, R., Kumar, R., Liu, F., & Kumar, S. (2023, November). Photonic assisted arbitrary microwave signal generation based on opto-electronic oscillator. In Optoelectronic Devices and Integration XII (Vol. 12764, pp. 69-76). SPIE.

**2.**Nadeem, Md Danish, Chandan Kumar, Sanjeev Kumar Raghuwanshi, Rajnish Raj, Ritesh Kumar, and Santosh Kumar. "A photonic approach to generate arbitrary chirp microwave waveforms using a direct modulated laser source." In Optoelectronic Devices and Integration XII, vol. 12764, pp. 53-59. SPIE, 2023.





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Asst. Prof. SPNREC, Araia

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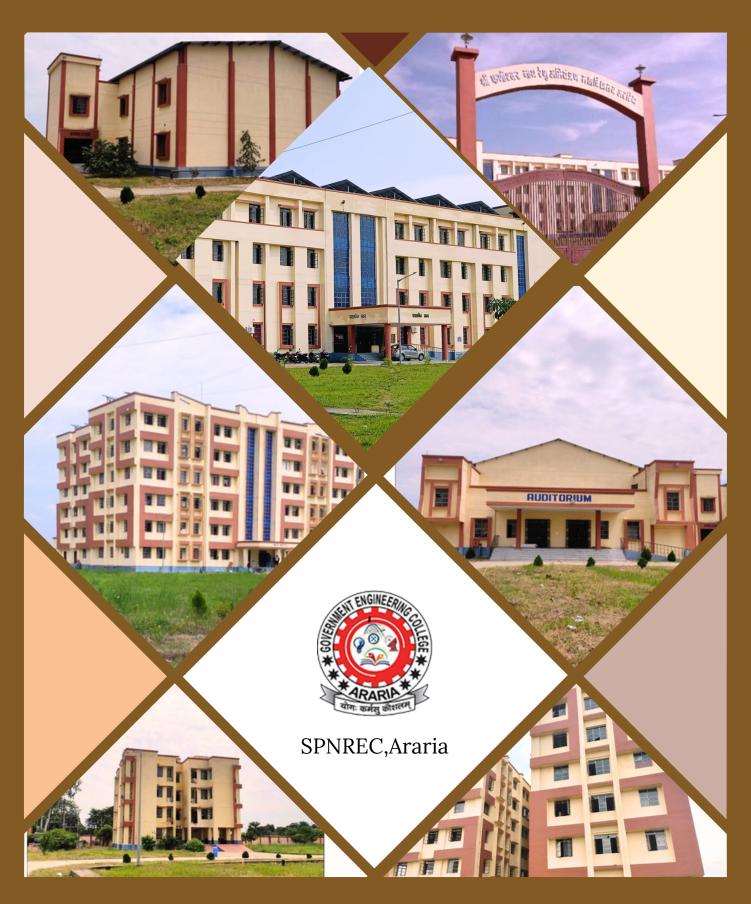
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