

2024

GNIPST LIFE SCIENCE BULLETIN

VOLUME 1, ISSUE 4



SCHOOL SHOWCASE

**ADITYA
ACADEMY
SECONDARY**

PAGE 3 Diwali Delights!

Guru Nanak Institute of Pharmaceutical Science and Technology

157/F, Nilgunj Road, Kolkata- 700114, West Bengal, India

Message from Director's Office



Prof. (Dr.) Abhijit Sengupta

(Director, Guru Nanak Institute of Pharmaceutical Science and Technology)

At Guru Nanak Institute of Pharmaceutical Science and Technology, we are committed to excellence in our core responsibilities: learning, discovery, and engagement. By utilizing educational technology and diverse teaching methodologies, we provide our students with a solid foundation in both fundamental principles and practical applications. Our policies prioritize student well-being and foster a harmonious and inclusive campus culture. As we celebrate Diwali, we want to emphasize the importance of safety and ethics during this festive season. May the light of Diwali illuminate your paths, bringing joy, prosperity, and a sense of togetherness. Wishing everyone a safe, joyful, and meaningful celebration!

Message from Principal's Office



Prof. (Dr.) Lopamudra Datta

(Principal, Guru Nanak Institute of Pharmaceutical Science and Technology)

It is my great pleasure to extend a warm welcome to you to the Guru Nanak Institute of Pharmaceutical Science and Technology, Department of Life Science. As one of the leading educational institutions in West Bengal, our state-of-the-art laboratory facilities offer hands-on experience, complemented by exceptional internship opportunities and placements. We believe that the rich values and traditions instilled here, along with our comprehensive educational resources, will empower our students to achieve great heights in their careers and personal lives. As we approach the joyous celebration of Diwali, let us embrace the spirit of light and prosperity, while also emphasizing the importance of morality and integrity. We encourage all our students to pursue academic excellence alongside strong ethical principles, becoming individuals who prioritize respect and integrity in every aspect of their lives. May this Diwali inspire one and all to shine brightly in their pursuits and foster goodwill and positive values in the community.



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Let us celebrate the festival of lights by nurturing the flame of creativity and passion within us.

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WHAT'S NEW IN RESEARCH?

Pioneering Progress!

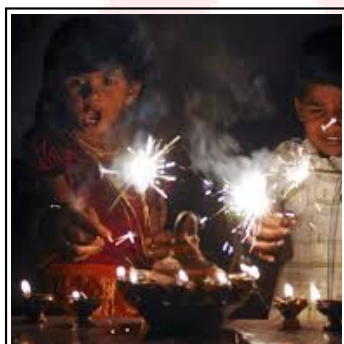
Pre-to-post Diwali air quality assessment and particulate matter characterization of a western coastal place in India

The study titled "Pre-to-Post Diwali Air Quality Assessment and Particulate Matter Characterization of a Western Coastal Place in India" by Amit Chanchpara et al. provides a detailed examination of air quality fluctuations associated with the Diwali festival in a coastal region. This research emphasizes the dramatic changes in particulate matter (PM) concentrations, comparing data collected before and after the festival. The authors employ advanced analytical techniques to characterize the composition of particulate matter, identifying key pollutants associated with firecracker emissions. The results reveal significant spikes in PM levels during Diwali, alongside a diverse range of harmful substances, raising concerns about public health and environmental sustainability. The study calls for increased regulatory measures and public education to mitigate the adverse effects of firecracker use during festive celebrations, highlighting the need for sustainable alternatives to traditional practices.



To know more :<https://pmc.ncbi.nlm.nih.gov/articles/PMC9937863/>

An Analysis of the Impact of Stubble Burning and Firecrackers on the Environment and Human Well-Being



Stubble burning and the use of firecrackers are two significant environmental issues that have detrimental effects on air quality and public health. Stubble burning, primarily practiced in agricultural regions, releases large amounts of particulate matter, carbon dioxide, and other pollutants into the atmosphere, contributing to smog formation and respiratory problems in nearby populations. Similarly, firecrackers, commonly used during festive seasons, emit toxic substances and heavy metals, further exacerbating air pollution. The combined impact of these practices leads to increased incidences of asthma, cardiovascular diseases, and other health issues, particularly among vulnerable groups such as children and the elderly. Furthermore, the environmental consequences extend beyond immediate health concerns, contributing to climate change and disrupting local ecosystems. Addressing these practices through sustainable alternatives is crucial for safeguarding both human well-being and the environment.

Read more : <https://www.ijfmr.com/papers/2024/4/26632.pdf>

Potential impact of fireworks on respiratory health

The study by Caroline Gouder and Stephen Montefort investigates the potential impact of fireworks on respiratory health, highlighting the acute and chronic effects associated with exposure to the pollutants released during firework displays. Fireworks emit a complex mixture of particulate matter, heavy metals, and chemical compounds that can aggravate pre-existing respiratory conditions, such as asthma and chronic bronchitis. The authors emphasize that vulnerable populations, including children and individuals with compromised respiratory systems, are particularly at risk during festive seasons when firework usage increases. Additionally, the paper discusses the broader implications for public health, noting a rise in emergency room visits and respiratory-related complaints following major firework events. By raising awareness of these health risks, Gouder and Montefort advocate for the implementation of stricter regulations and the promotion of safer alternatives to traditional fireworks.



Read more :<https://pmc.ncbi.nlm.nih.gov/articles/PMC4220320/>

"Let the lights of joy shine bright without the noise of firecrackers."

CAMPUS CHRONICLES

What's going on? Faculty Spotlight



Faculty members **Mr. Soumya Bhattacharya, Dr. Priyanka Ray, Dr. Jigisha Roy Panda, and Ms. Jeenatara Begum** participated in a workshop on CO-PO mapping at JIS University. This workshop focused on aligning Course Outcomes (CO) with Program Outcomes (PO), an essential process for enhancing educational effectiveness and ensuring that curriculum objectives are met. Through collaborative discussions and hands-on activities, the faculty members gained valuable insights into best practices for mapping outcomes, enabling them to better assess student learning and improve course design. Their participation reflects a commitment to academic excellence and continuous improvement in teaching methodologies at their institution.

Tree Plantation Drive in Schools



In a commendable initiative, mahogany saplings were gifted to 30 schools in and around Kolkata, fostering environmental awareness and responsibility among students. The event included engaging interactive sessions led by teachers and a group of enthusiastic students, who collaborated together to instill a sense of stewardship towards the environment and cordial bonding with the respectable institutions.



Swachh Bharat Abhiyan

On October 2nd, our students celebrated Swachh Bharat Abhiyan by coming together to clean classrooms and laboratories, showcasing remarkable team spirit and enthusiasm. Their active participation highlighted their dedication to the initiative and the values of discipline and community service, contributing to a healthier and more inspiring educational atmosphere.



Awareness on Malnutrition



Our students have successfully reached eight schools so far as part of their ongoing awareness drive focused on malnutrition, guided by our dedicated faculty coordinators. Through engaging seminars, they have been educating peers and community members about the critical importance of proper nutrition and its impact on overall health and development.



Guru Nanak Institute of Pharmaceutical Science and Technology

WILD & WISE
A Three Day Celebration
06th November to 08th November, 2024
For Schools and College Students

Book Fair: Seminar, Book Competition, Photography Competition, Quiz Competition, Model Creation and Panel Discussion

GNIPST Scholaristic Book Fair

Quiz Competition

Photography Competition

Model Creation

Panel Discussion

Book Donation Camp

Visit www.gnipst.ac.in for more information!

Be a part of our upcoming event

WILD AND WISE

Visit www.gnipst.ac.in for more information!

SCHOOL SHOWCASE

ADITYA ACADEMY , BARASAT



"Aditya Academy is a CBSE co - educational English medium school. The school was founded in 2003 by Bhaskar Aditya and is situated in Kadambagachi, Barasat, West Bengal. Every year the school celebrates Kali pujo or Diwali, the festival of lights with great pomp and show. It starts with decorating the entire school with art and craft materials, flowers, rangoli designs...etc. Wishing you all a radiant and joyous Diwali filled with the spirit of learning, sharing and togetherness. HAPPY DIWALI!"

SARBANI DEY, Teacher Coordinator



"Diwali is a festival of lights. In school the students of a class celebrate by making drawings of diwali and then using them they prepare a collage. The students also make decorative things with colourful papers and decorate their class according to their imagination"

Pinki Mukherjee, Assistant Teacher



"As a class teacher I share the story of Rama and Sita from the Ramayana, explaining the significance of Diwali as the celebration of Lord Rama's victory over Ravana and his return to Ayodhya. I actively participate in Rangoli making in my school asking my class students participate in Rangoli competitions, creating colorful and intricate designs on the floor promoting artistic expression and teamwork. I engage my hostel students for Diya Decoration with vibrant colors and patterns, symbolizing the spread of light and knowledge. We have a small Cultural Performances with select students performing dances, songs, and skits based on Diwali themes of rich cultural heritage of India."

Mausami Chatterjee Sanyal, Assistant Teacher



Wishing everyone a safe and Happy Diwali. I would like to thank Guru Nanak Institute of Pharmaceutical Science and Technology for giving us this opportunity to showcase ourselves, especially our students on this festive season. Hoping for more of these collaborations in future.!

Srishti Roy, Assistant Teacher PRT

"শুভ দীপাবলীর প্রীতি ও শুভেচ্ছা জানাই সকলকে। দীপাবলি হলো আলোর উৎসব। আমাদের আদিত্য একাডেমি সেকেন্ডারি স্কুলে প্রতিবছর আনন্দের সাথে দীপাবলি উদযাপিত হয়। এ বছরও তার ব্যতিক্রম হয়নি। ছাত্র-ছাত্রীরা নিজের হাতে আঁকা ছবি ও শিল্পকর্ম দিয়ে শিক্ষা প্রতিষ্ঠান সাজিয়ে তুলেছে। শিক্ষিকারাও প্রতিটি ক্ষেত্রে তাদের সহযোগিতা করেছে। আমাদের শিক্ষা প্রতিষ্ঠানে আরো একটি আকর্ষণের বিষয় হল রঙিন আলপনা এবং হরেক রকম বাজির বাহার। যা ছাত্র-ছাত্রী এবং শিক্ষক শিক্ষিকারা প্রাণভরে উপভোগ করে।"

Moumita Chakraborty, PRT TEACHER



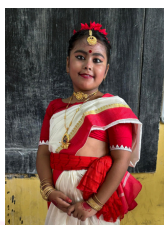
"Rangoli-making is a key part of our Diwali celebration. Students and teachers collaborate to design vibrant Rangoli patterns, promoting artistic expression and teamwork while celebrating the tradition."

Tanusree Mukherjee, Assistant Teacher



From the thrill of crafting intricate Rangolis to the excitement of a safe and supervised firecracker display, students lead the way in celebrating Diwali, filling the school with radiant colors, laughter, and unforgettable memories.

Jayashree Banerjee, Assistant Teacher



My favorite part of Diwali is decorating the home with flowers and lights, making beautiful Rangoli, and lighting candles. I love wearing new clothes, visiting pandals, and the excitement of firecrackers. Worshipping Goddess Lakshmi and making clay diyas to float in a nearby pond adds a special touch to the festivities. I also like coming to school and decorate the corridors with flowers.

Mousumi Saha, Standard III



My favorite part of Diwali at school is our colorful decorations! We make Rangoli together and hang lights everywhere. I love wearing my new dress and sharing sweets with my friends. The fun dances and the diya-making activity are so exciting, and I feel so happy celebrating together!

Nishat Fariha, Standard V



Snapshots from the Celebration



ACTIVITY CORNER



Spot the Difference

Unravel the Riddle

1

I'm a vibrant explosion of color in the sky. On a sunny evening, I am a sight to see. I light up the darkness with sparks and crackles. What am I?

2

You measure my life in hours and I serve you by expiring. I'm quick when I'm thin and slow when I'm fat. The wind is my enemy.

SUBMIT YOUR ANSWERS:

CLICK
HERE

Stay tuned for a shout out to fastest correct answers in the next edition!

ANSWER KEY

Volume 1, Issue 3

Women Who Teach : Pair the quote to the speaker

1-H

2-D/F

3-B

4-C

5-E

6-J

7-I

8-A

9-G



Shout out to the "Activity Corner" Winner of Volume 1, Issue 3 !



Sanchari Sen

Guru Nanak Institute of Pharmaceutical Science and Technology, BMLT

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"This Diwali, let's spark change and inspire others to shine brightly in their own unique ways."

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