

# Newsletter



DEPARTMENT OF CHEMISTRY  
KALINDI COLLEGE  
2023-24



**Dr. Renu Bala**  
Teacher In Charge

**Dr. Rajesh Kumar Meena**  
Editor



## RASA-ION Chemical Society Elections 2023-24


### RASA-ION Chemical Society Office Bearers:

S. No.	Post	Name	Course
1	President	Ananya Jha	B.Sc. (H) Chemistry 3 <sup>rd</sup> Year
2	Vice President	Annu Yadav	B.Sc. (H) Chemistry 2 <sup>nd</sup> Year
3	General Secretary	Isha	B.Sc. (H) Chemistry 2 <sup>nd</sup> Year
4	Cultural Secretary	1. Amisha Bhatt 2. Gracy Maurya	B.Sc. (H) Chemistry 2 <sup>nd</sup> Year
5	Joint Secretary	1. Samridhi Nath 2. Disha Goel	B.Sc. (H) Chemistry 1 <sup>st</sup> Year
6	Treasurer	Fiza	B.Sc. (H) Chemistry 2 <sup>nd</sup> Year
7	Class Representative	Kajal Gill Garima Arora	B.Sc. (H) Chemistry 3 <sup>rd</sup> Year
8	Class Representative	Kiran Maivish	B.Sc. (H) Chemistry 2 <sup>nd</sup> Year
9	Class Representative	Nidhi Kajal	B.Sc. (H) Chemistry 1 <sup>st</sup> Year
10	Technical Team	1. Sita Sabarwal 2. Sakshi 3. Gungun	B.Sc. (H) Chemistry


**Convenor:** Dr. Renu Bala (TIC Chemistry)

**Staff Advisors:** Dr. Shweta Gupta Dr. Rajesh K Meena Dr. Shiv Kumar Dr. Kapil Mohan

**INAUGURATION OF RASAION  
THE CHEMICAL SOCIETY OF ACADEMIC SESSION (2023-24)  
cum  
CAREER COUNSELLING SESSION**





**रसाION**  
**The Chemical Society**  
Department of Chemistry  
KALINDI COLLEGE  
NAAC ACCREDITED 'A+' GRADE  
UNIVERSITY OF DELHI



PRESENTS

INAUGURATION OF RASAION - THE CHEMICAL SOCIETY  
CUM  
CAREER COUNSELLING SESSION

SPECIAL APPEARANCE

**Mr. Pradeep Singh Rajput**  
CEO, VedPrep Chemacademy

**DATE : 5th OCTOBER, 2023**  
**TIME : 10:00 A.M. ONWARDS**  
**VENUE : TRI-5**

LIST OF EVENTS

- OATH CEREMONY 🇮🇳
- DUMB CHARADES 🗣️
- JUST A MINUTE 💡

With exciting PRIZES

Prof. Meena Charanda  
Principal

**Staff Advisors:**  
Dr. Shiv Kumar  
Dr. Rajesh Kumar Meena  
Dr. Shweta Gupta  
Dr. Preeti Yadav  
Dr. Kapil Mohan Saini

**Dr. Renu Bala  
Convenor**

Kalindi College's Chemical Society, RASAION, hosted the Career Counselling Session and the Academic Year 2023-24 Inauguration Ceremony on October 5, 2023. The event took place in the TRI Block conference room starting at 10:30 am. The society president, Ananya Jha, began by welcoming all of the dignitaries. The potted plants were given to the dignitaries as a sign of respect.





## BADGE CEREMONY

Third-year students Jigyasa Singh and Sakshi Yadav initiated the Badge Ceremony.  
All eight of the Chemical Society's office bearers:

**President** – Ananya Jha

**Vice President** – Annu Yadav

**Cultural Secretary** – Amisha Bhatt, Gracy Maurya

**General Secretary** – Isha

**Joint Secretary** – Disha Goel , Samridhi Nath

**Treasurer** – Fiza

Alongwith the class representatives of all the three years :

**CR of First Year** – Nidhi, Kajal

**CR of Second Year** – Kiran, Maivish

**CR of Third Year** – Garima Arora, Kajal Gill





### **OATH CEREMONY**

Following the badge ceremony, each office bearer swore an oath promising to carry out their responsibilities with diligence. They made an oath to dedicate themselves entirely to the welfare and advancement of society, and to constantly uphold and fulfil their duties in a sincere manner. Following the oath ceremony, a group portrait was taken of the teaching staff, staff advisors, convenor, and all office bearers.

### **DUM CHACADES:**

There was a game called Dum Chacades following the oath ceremony. Two groups of four second-year students were present. Three members of the team had to predict the name of the element after one team member was given the name of an element from the periodic table and had to pretend to be the element. The "Muffin" team Maivish, Kiran, Fiza, and Gungun won the match after eight rounds.







**GREETINGS TO THE GUESTS:**  
 The distinguished visitors arrived following the Dum Chacades activity. Mr. Pradeep Singh Rajput, Mr. Anurag Dang, and Miss Vibha Singh from Ved Prep Chemacademy were among the attendees. As a sign of respect, Dr. Upasana Issar, Dr. Meenakshi Verma, and Dr. Preeti Yadav presented them with the planters.





**Session of Validictory:**  
Ananya Jha finished the ceremony by expressing gratitude to the distinguished visitors. All of the dignitaries, staff advisors, faculty, office bearers, volunteers, and students who attended and contributed to the success of the event were thanked.



## Swacch Bharat Abhiyan, Kalindi College (14<sup>th</sup> Feb 2024)




**KALINDI COLLEGE**  
University of Delhi  
NAAC ACCREDITED 'A+' GRADE

**विकसित भारत अभियान**  
1847 TO 2047

**CHEMICAL SOCIETY**  
Department of Chemistry  
under  
**Viksit Bharat Mission**  
organising a

**स्वच्छ भारत अभियान**  
(एक कदम स्वच्छता की ओर)

**14TH FEBRUARY 2024, WEDNESDAY**  
**TIME : 12:30 P.M.**



**Prof. MEENA CHARANDA**  
PRINCIPAL  
KALINDI COLLEGE



**Dr. RENU BALA**  
TIC  
DEPARTMENT OF CHEMISTRY  
KALINDI COLLEGE



**Dr. SHIV KUMAR**  
CONVENOR  
DEPARTMENT OF CHEMISTRY  
KALINDI COLLEGE

**COMMITTEE MEMBERS**

Dr. SHWETA GUPTA  
Dr. KAPIL MOHAN SAINI  
Dr. RAJESH KUMAR MEENA  
Dr. YOGESH KUMAR SHARMA

**PRESIDENT : ANANYA JHA**  
**VICE PRESIDENT : ANNU YADAV**

All are cordially invited





New Delhi, Delhi, India  
 1, Kalindi College Road, Block 49, East Patel Nagar,  
 Patel Nagar, New Delhi, Delhi, 110008, India  
 Lat 28.648647° Long 77.178042°  
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As part of the Vikshit Bharat Mission, Rasaion, the chemical society of Kalindi College, organised the Swacch Bharat Abhiyan. Beginning at 12:30 pm, the event took place on the college campus. Students were given gloves, dustbins, brooms, and posters that read the subject.

All three year chemistry department students, lab staff, and staff advisers enthusiastically participated. The event began in the chemistry department and proceeded to the principal's office. Dr. Meena Charanda, the principal of kalindi college, supported the abhiyan by encouraging students to start additional drives and raising awareness among them. She also pledged to keep the college campus area tidy and clean.



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 49, East Patel Nagar, Patel Nagar, New Delhi, Delhi,  
 110008, India  
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 110008, India  
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# Inter College Fest "Rasayanika 24" Department of Chemistry



**रसा-ION**  
The Chemical Society  
Department of Chemistry  
KALINDI COLLEGE  
UNIVERSITY OF DELHI  
NAAC ACCREDITED "A-"  
IN COLLABORATION WITH  
INDRAPRASTHA VIGYAN BHARATI  
PRESENTS  
AN INTER-COLLEGE FEST  
**RASAYANIKA'24**  
THEME: SCIENCE FOR SUSTAINABLE FUTURE

**GUEST SPEAKER**  
**Dr. Ruchir Gupta**  
INDIAN INSTITUTE OF TECHNOLOGY, BHU

**DATE:** 28th FEBRUARY, 2024  
**VENUE:** SANGAM PARISAR  
**TIME:** 10:30 AM Onwards

**Staff Advisors:**  
Dr. Kapil Mohan Saini  
Dr. Shweta Gupta  
Dr. Shiv Kumar  
Dr. Rajesh Kumar Meena  
Dr. Yogesh Kumar Sharma

**EVENTS:**  
Kaun Bnega Chempati  
Poster Presentation  
Chembola  
Chemshots  
Puzzle Huddle

**Dr. Renu Bala** For queries -9718811305  
TIC, Department of Chemistry @rasaion\_kc

**Prof. Meena Charanda**  
Principal



Rasaynika 2024, an annual intercollegiate festival, was held on February 28, 2024, by Rasaion, the chemical society of Kalindi College. Science for a sustainable future was the festival's theme. Sangam Parisar hosted the event starting at 10:00 am. All of the dignitaries were welcomed by the anchor, Kanishka, a 2<sup>nd</sup> year chemistry student, and Tanushree, a 1<sup>st</sup> year chemistry student. The dignitaries and office bearers, respectively, then lit lamps to begin the event. Dr. Renu bala, the department's Tic, presented the guest speaker with a potted plant as a token of appreciation.





New Delhi, Delhi, India  
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 Long 77.178058°  
 28/02/24 11:47 AM GMT +05:30

### THE GUEST SPEAKER'S LECTURE :

Dr. Ruchir Gupta, the guest speaker, gave the first lecture on the subject of National Science Day. His research interests include edge computing, game theory, peer-to-peer networks, social networks, and machine learning. He is an associate professor in the chemistry department at IIT Varanasi, Uttar Pradesh, India. His knowledge and love for our ancient science inspired many students to investigate the vast options in the world of science. He had a terrific discussion, and the chemistry department's TIC, Dr. Renu Bala, honoured him by handling a plant pot as a mark of respect.



New Delhi, Delhi, India  
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 28/02/24 11:46 AM GMT +05:30



New Delhi, Delhi, India  
 110006, near Kalindi College, University of Delhi, Block 49, East Patel Nagar, Patel Nagar, New Delhi, Delhi, 110008, India  
 Lat 28.649509°  
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 28/02/24 11:50 AM GMT +05:30



New Delhi, Delhi, India  
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 28/02/24 11:53 AM GMT +05:30





### **GROUP DANCE:**

Following the lecture, several of the 3<sup>rd</sup> year chemistry department students performed a group dance. There were two components to the dance. In the first, there were nine students (Neha, Sonia, Shivani, Gunjan, Nitika, Shagun, Rupa (3<sup>rd</sup> year), Vandana (2<sup>nd</sup> year), and Amisha (1<sup>st</sup> year) participating in a free-style Bollywood dance, and in the second, there were six students (Raksha, Priya, Kavya, Neha, Khushi, Shivangi (3<sup>rd</sup> year). The performance was a huge hit with everyone.



# रसा-*ion*

## The chemistry society KALINDI COLLEGE

NAAC ACCREDITED "A+" GRADE UNIVERSITY OF DELHI

*Presents*

### AN INTER-COLLEGE FEST RASAYANIKA '24

*In association with Indraprastha Vigyaan bharti*

## KON BANEGA CHEMPATI

THEME- SCIENCE FOR SUSTAINABLE FUTURE

28- February, Wednesday

**GENERAL INSTRUCTIONS:**

1. A TEAM OF MAXIMUM 2 IS ALLOWED
2. IN THE END, THE TEAM WITH MAXIMUM SCORE WILL BE THE WINNER.
3. GENERAL SCIENCE BASED QUESTIONS WILL BE ASKED.
4. YOU HAVE TO CARRY YOUR COLLEGE ID CARDS.
5. STUDENT FROM ALL COLLEGES FROM UG COURSES ARE ALLOWED
6. PRIZES INCLUDE EXCITING CASH PRIZES AND CERTIFICATE

Prof. Meena Charanda  
Principal

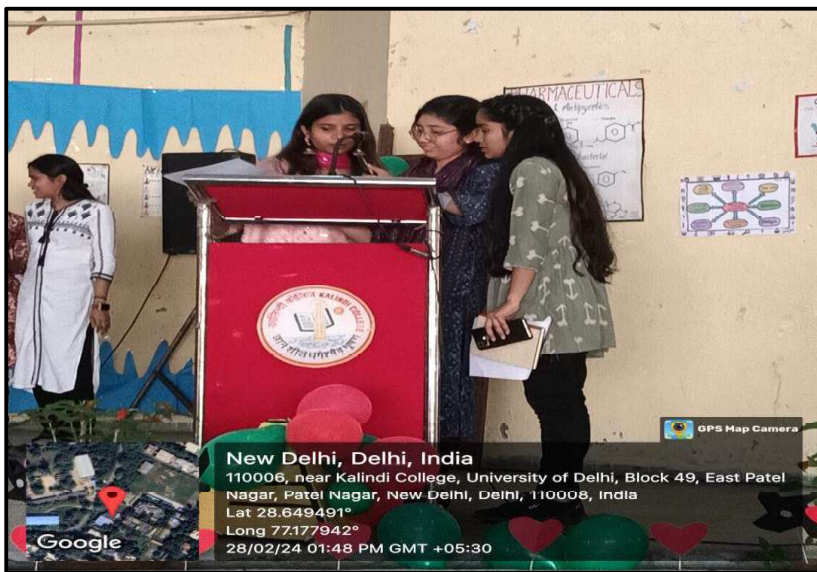
Dr. Renu Bala  
(TIC)


Dr. Shweta  
Dr. Kapil Mohan Saini  
Dr. Rajesh Kumar Meena  
Dr. Shiv Kumar  
Dr. Shiv Kumar Sharma  
(Staff Advisory)

For queries- Contact 8303251988 -Gracy Maurya



This quiz's subject was general science. There were two parts to the quiz. All teams participated in the 1<sup>st</sup> section, which was written and allowed 15 minutes to try 15 questions. Five teams out of a total of fifteen were chosen. In the 2<sup>nd</sup> round, each team was assigned a question, and the answers were graded based on the questions.





**रसा-ion**  
**The Chemical Society**  
**Kalindi College**


NAAC ACCREDITED 'A+' GRADE  
 UNIVERSITY OF DELHI

**RASAYANIKA '24**  
 AN INTER COLLEGE FEST

Presents  
*Chembola*

**Date: 28th february 2024**  
**Venue: Kalindi College**  
**Time: 11 am**


**GENERAL GUIDELINES**

 Name of element will be announced and you have to mark the symbol on your respective tickets.  
 In the End prizes will be given for full house{2}

**Exciting Cash prizes & gifts**

<b>PRINCIPAL</b> Prof. Meena Charanda	<b>CONVENOR</b> Dr.Renu Bala	<b>STAFF ADVISORS</b> DR.SHWETA GUPTA DR.RAJESH KUMAR MEENA DR.YOGESH KUMAR SHARMA DR.KAPIL MOHAN SAINI DR.SHIV KUMAR
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**Media Partners**








Chembola is comparable to tambola, with the addition of element symbols in place of the numbers and the crossing out of the elements symbols. The vice president of the Chemical Society, Annu Yadav, oversaw this event. Anjali Sherawat and Dr. Rajesh Kumar Meena served as the event judges. There were 35 entrants in all for this event.



# रसा-ion

## THE CHEMICAL SOCIETY

Kalindi college  
University of Delhi  
NAAC ACCREDITED "A+:"





**PRESENTS**

### An Inter college fest

## RASAYANIKA'24

is organising

## " POSTER PRESENTATION "


**THEME- SCIENCE FOR SUSTAINABLE FUTURE**

**28, February 2024**


**RULES:-**

- Participants are requested to make their posters from home.
- Along with it they have to explain and represent their respective posters on the day of event.

Link-



**Media Partners**



Prof.Meena charanda  
Principal

Dr. Renu Bala  
Convener

Dr. Shweta Gupta  
Dr. Kapil Mohan Saini  
Dr. Rajesh Kumar Meena  
Dr. Shiv Kumar  
Dr. Yogesh Kumar Sharma  
(Staff Advisor)

for more information contact - Amisha Bhatt  
(7895516892)



Poster presentations were the 3rd activity of the day. Participants were asked questions by the judges at this event. The judges for the competition were Dr. Sajid Iqbal and Dr. Upasana Issar. Amisha, the chemistry department's cultural secretary, served as its leader. The event's winners were Avantika in 1st prize and Ella Arun Marwa in 2nd prize.

# रसा-ion

## THE CHEMICAL SOCIETY

Kalindi college  
 University of Delhi  
 NAAC ACCREDITED "A+"  
 in collaboration with

### INDRAPRASTHA VIGYAN BHARATI

PRESENTS  
 An Inter College Fest

# RASAYANIKA'24

is organising  
**" PUZZLE HUDDLE "**

On 28, february2024

**RULES :-**

- Everyone has to participate individually
- Students who will solve maximum number of puzzles will win the competition
- Puzzles are based on basic chemistry

Link-

**Prof Meena charanda**  
(Principal)

**Dr.Renu Bala**  
(TIC)

**Dr.Shweta Gupta**  
**Dr.Kapil Mohan Saini**  
**Dr. Rajesh Kumar Meena**  
**Dr. Shiv Kumar**  
**Dr. Yogesh Kumar Sharma**  
 (Staff Advisor)

Media Partners

For more information contact  
 Isha (9729815401)





Group dance Three 3<sup>rd</sup> year students, Sakshi Yadav, Jigayasa Singh, and Srestha Teli, performed it. They danced freely, and it was a huge hit with everyone. Gungun Suwalaka, a 2<sup>nd</sup> year chemistry student, and Simran, a 3<sup>rd</sup> year student, performed solo cultural dances.



### ARTIST PERFORMANCE:

"The hilarious performance by the talented singer Aakash Goswami made the annual festival RASAYNIKA '24' even more memorable." His calming performance won the students over. Dr. Rajesh Kumar Meena, Dr. Kapil Mohan Saini, Dr. Sajid Iqbal and Dr. Shiv Kumar presented him with a plant pot and presents as well as their best wishes.







### VALIDICTORY SESSION:



Last but not least, our anchor Kanishka and co-host Tanushree revealed the winners of every event. Our staff advisors presented the winners with wonderful presents as a token of appreciation. Kanishka and Tanushree gave a vote of gratitude to everyone who participated in the event and provided assistance in making it a success.



**KALINDI COLLEGE**  
**NAAC ACCREDITED GRADE "A"**  
**UNIVERSITY OF DELHI**



**DEPARTMENT OF CHEMISTRY**  
**INTRODUCING A VALUE**  
**ADDED COURSE**  
**FUNDAMENTALS OF**  
**NANOSCIENCE**  
**AND**  
**NANOTECHNOLOGY**

 **29TH FEBRUARY, 2024**  
 **TIME DURATION : 30 HOURS**

<b>COURSE COORDINATOR</b> <b>DR. RAJESH</b> <b>KUMAR MEENA</b>	<b>CONVENOR</b> <b>DR. RENU BALA</b>	<b>CO-CONVENOR</b> <b>DR. APRAJITA</b> <b>GAUR</b>	<b>PRINCIPAL</b> <b>PROF. MEENA</b> <b>CHARANDA</b>
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**About the course:** The Value Added Courses aim to provide additional learner-centric graded skill oriented technical training via online mode, with the primary objective of improving the academic as well as employability skills of graduate students. The main objectives of the program are: To provide students an understanding of the expectations of the industry.

**What's so special about Nanomaterials?**

This slide covers how nanomaterials properties to change from their bulk scale equivalents are:

- Relative surface area
- Quantum effects

This can lead to dramatic changes or enhancement of fundamental properties such as material strength, electrical and thermal strength and increased chemical reactivity.

- It can = 4% of atoms on the surface
- It can = 20% of atoms on the surface

2:57 PM | dtf-cwfg-hnc

**Synthesis of nanoparticles by using Fly Ash**

4:32 PM | dtf-cwfg-hnc

**Instrument**

5:49 PM | dtf-cwfg-hnc

**Semiconductor**

5:54 PM | dtf-cwfg-hnc

# Closing ceremony of "Rasaion"



## रसा-ION

THE CHEMICAL SOCIETY  
DEPARTMENT OF CHEMISTRY  
KALINDI COLLEGE

NAAC Accredited Grade "A+"



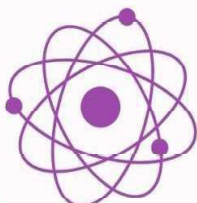
**GUEST SPEAKER**



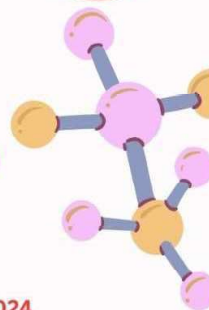
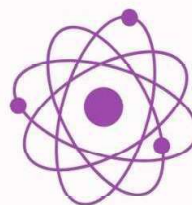
**Dr. R. K. Kotnala**

(Chief Editor-Current Natural Sciences & Engineering (CNS@E), Chairman NABL (2020-22), Professor AcSIR Emeritus, FNASC, FIGU, FMSI, Raja Ramanna Fellow (INO) DAE, Sigma Xi Elected Member, Former Chief Scientist and Head, Environmental Sciences and Biomedical Metrology, CSIR-NPL)

**Prof. Meena Charanda**  
Principal

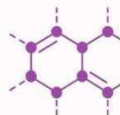


Presents  
**Closing Ceremony of  
रसा-ION  
The Chemical Society**



### Staff Advisors:

1. Dr. Kapil Mohan Saini
2. Dr. Shweta Gupta
3. Dr. Shiv Kumar
4. Dr. Rajesh Kumar Meena
5. Dr. Yogesh Kumar Sharma



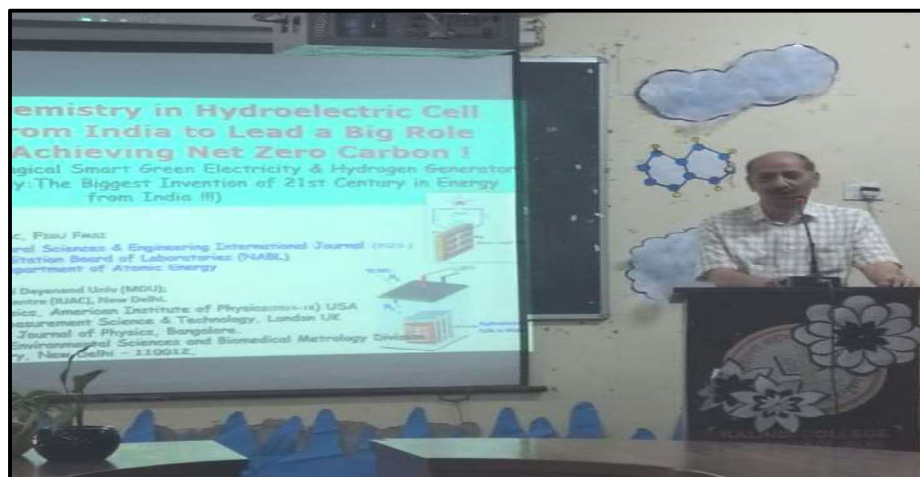
**DATE: 3rd MAY, 2024**

**VENUE: TRI-5**

**TIME: 10:30 AM Onwards**

**Dr. Renu Bala**  
TIC, Department of Chemistry

On May 3, 2024, Rasaion, the chemical society of Kalindi College, held its closing ceremony for the 2023-2024 session in TRI-5. The event began with a welcome from the vice president, Annu Yadav, and Tanushree, a first-year student of the chemical society. The dignitaries lit the lamp and Annu Yadav gave the guest speaker, Dr. RK Kotnala, a plant pot, while our staff advisor, Dr. Yogesh Kumar Sharma, presented the convenor with a plant pot as a token of respect.



**Chemistry in Hydroelectric Cell from India to Lead a Big Role Achieving Net Zero Carbon !**  
ological Smart Green Electricity & Hydrogen Generator  
y: The Biggest Invention of 21st Century in Energy  
From India !!!

C. Flow Plant  
and Sciences & Engineering International Journal (2013)  
National Board of Laboratories (NABL)  
Department of Atomic Energy

Dependable Univ (NEHU)  
Centre (IISAC), New Delhi  
USA  
Department Science & Technology, London UK  
Journal of Physics, Bangalore  
Environmental Sciences and Biomedical Metrology Div  
y: New Delhi - 110012



Dr. R.K. Kotnala. An Indian scientist, Dr. R K Kotnala is internationally recognised for his outstanding contributions to the fields of net carbon zero, hydroelectric cells, water splitting by non-photocatalytic processes, nanomaterials, multiferroics. Dr. Kotnala is renowned in the scientific community for his exceptional work in the fields of environmental sciences, solar cells, multiferroics, spintronics, clean energy, and values of scientific ethics. He has authored numerous books and chapters in addition to giving innumerable scholarly presentations in a variety of fields. Additionally, he is educating young people about science by giving a lot of invited presentations and making YouTube movies about basic scientific ideas.



### **MISS FAREWELL**

#### **CONTEST:**

The most anticipated part of the closing ceremony took place following the elegant dance. Dr. Upassana Issar, Dr. Anjali Sherawat, Dr. Shweta Gupta, and Dr. Rajita served as judges. Three rounds of the competition were held. In the first round, which was a ramp walk, competitors had to show off how they walked and carried themselves. The chosen applicants from the first round were expected to perform any kind of talent, such as singing or dancing, in the second phase, which was called the talent showcasing round. The third round was called the question-answer session, where the candidates were required to respond to the questions.





## CERTIFICATE DISTRIBUTION

### CEREMONY:

The last event of the closing ceremony was the certificate distribution ceremony in which the winners of the previous events and the office bearers were awarded with the certificates by our staff advisors Dr. Shweta Gupta and Dr. Rajita . Rasaion, the Kalindi College Chemical Society, had a very successful ending event for the 2023-24 academic year.

## Department of Chemistry



Dr. Aprajita Gaur  
Associate Professor



Dr. Renu Bala  
Associate Professor



Dr. Shilpika Bali Mehta  
Associate Professor



Dr. Meenakshi Verma  
Assistant Professor



Dr. Upasana Issar  
Assistant Professor



Dr. Rajesh Kumar Meena  
Assistant Professor



Dr. Kapil Mohan Saini  
Assistant Professor



Dr. Rajita  
Assistant Professor



Dr. Shweta Gupta  
Assistant Professor



Dr. Shiv Kumar  
Assistant Professor



Dr. Sajid Iqbal  
Assistant Professor



Dr. Yogesh Kumar Sharma  
Assistant Professor



Dr. Geeta Devi Yadav  
Assistant Professor



Dr. Anjali Sehrawat  
Assistant Professor



## LABORATORY STAFF



**Mr. Ashok Kumar**



**Mr. Yashpal**



**Ms. Prakashi Das**



**Mr. Nitin Kumar**



**Mr. Bhuvan Chandra**



**Mr. Awadesh Kumar**



**Mr. Rajeev**