



Tirumala Tirupati Devasthanams

శ్రీ వేంకటేశ్వర కళాశాల

Sri Venkateswara College

(University of Delhi)

NAAC Grade A+

**SRI VENKATESWARA COLLEGE
(UNIVERSITY OF DELHI)**

EVENT REPORT

NAME OF THE EVENT: Seminar on “Chemosensors for the Detection of Heavy Metals and Biothiols”			
DATE	DEPARTMENT	COMMITTEE/SOCIETY	COORDINATORS’ NAME
20-11-2024	Chemistry	The Chemical Society	Dr. Laishram Saya Devi Dr. Shikha Gulati
TIME	VENUE	NUMBER OF PARTICIPANTS	NATURE: Outdoor/Indoor; online/offline/hybrid
10:30 am – 12:30 pm	Google Meet	95	Online
FINANCIAL SUPPORT/ASSISTANCE (if any):	Chemical Society Fund		

BRIEF INFORMATION ABOUT THE ACTIVITY

TOPIC/SUBJECT OF THE ACTIVITY	Seminar on “Chemosensors for the Detection of Heavy Metals and Biothiols”
OBJECTIVES	The objectives of the seminar were as follows: <ul style="list-style-type: none">• Explain the concept of chemosensors and their role in detecting specific chemical species.• Discuss the environmental and health impacts of heavy metal contamination.• Introduce biothiols and discuss their biological importance.• Identify challenges in the field, such as detection limits and real-world sample complexities.
METHODOLOGY	Prof. Rakesh Kumar was invited by the department to deliver an insightful seminar on “Chemosensors for the Detection of Heavy Metals and Biothiols” in online mode. Through an engaging PowerPoint presentation, he elaborated on the concept of chemosensors, their working principles, and their vital role in

	environmental and biological applications. The session included an interactive segment, during which Prof. Kumar actively engaged with students and faculty, addressing their queries and fostering a deeper understanding of the topic.
INVITED SPEAKERS WITH AFFLIATION DETAILS (IF ANY)	Prof. Rakesh Kumar Professor, Department of Chemistry, University of Delhi
OUTCOMES	The seminar provided participants with a comprehensive understanding of chemosensors, their mechanisms, and their applications in environmental and biological fields. Students and faculty gained insights into advanced detection techniques, fostering interest in this cutting-edge research area. The interactive session encouraged critical thinking, clarified key concepts, and inspired potential research ideas, making the event both educational and impactful.

PROOFS & DOCUMENTS ATTACHED (Tick mark the proofs attached):


1 Notice & Letters ✓	2 Number of Participants & Name of participants ✓	3 Video clip	4 Photos ✓	5 Feedback Form & analysis ✓
6 News clip with details	7 Sample Copy of the Certificate ✓	8 Posters/ Invites ✓	9 Event report Attested by Event Coordinator & IQAC Coordinator ✓	10 Any other document ✓ Completion certificate e-certificate for participants

Departmental file no: SVC/CHEMISTRY/2024-25/November 2024/03

IQAC File No: SVC/IQAC/ CHEMISTRY /2024-25/ November 2024

Criterion No: I, III, V

NAME OF EVENT-IN-CHARGE & SIGNATURE:


Prof. Sanjay Kumar

Note: Please fill in your own details in places with red font

For Reference

Criterion I	Curricular Aspects (planning & Implementation)	Criterion V	Student Support & Progression
Criterion II	Teaching Learning & Evaluation	Criterion VI	Governance, Leadership & Management
Criterion III	Research, Innovations & Extension	Criterion VII	Institutional Values & Best Practices
Criterion IV	Learning Resources and Infrastructure		

REPORT

Rasagya, The Chemical Society of Sri Venkateswara College, organized an enriching online seminar on “**Chemosensors for the Detection of Heavy Metals and Biothiols**”.

The event began with a traditional inauguration ceremony, featuring the Saraswati Vandana symbolizing the pursuit of knowledge. This was followed by an announcement from the convener, Prof. Sanjay Kumar, who introduced the office bearers of the Chemical Society for the session 2024-2025. The session then proceeded with an inspiring speech by our esteemed Principal, Prof. V. Ravi, who extended a warm welcome to the guest speaker and emphasized the relevance of the seminar topic in addressing current scientific challenges.

The seminar commenced with Prof. Rakesh Kumar defining chemosensors and their importance in detecting specific chemical species with high sensitivity. He contrasted these modern sensors with conventional methods of metal ion detection, which often face limitations in terms of sensitivity, cost, and time. Prof. Kumar then moved on to discuss heterocyclic compounds, their critical role in the design and functionality of chemosensors, and their applications in metal ion detection. The presentation progressed to a discussion on metal ions and their toxicity, particularly focusing on the harmful effects of mercury. Prof. Kumar explained the advantages of using chemosensors to detect mercury, underscoring its toxicological impact on both the environment and human health. He highlighted how chemosensors could offer real-time, accurate detection, thus aiding in mercury monitoring and mitigation.

Prof. Kumar also addressed the principles, design and synthesis of chemosensors, explaining how absorption and emission studies are utilized to enhance their detection capabilities as well as limitations of current chemosensor technology, including challenges related to selectivity, stability, and scalability. This prompted insightful discussions on potential improvements and future directions in sensor development. The session concluded with a question-answer session where students and faculty members actively interacted with Prof. Kumar, raising questions about the applications and challenges of chemosensors.

The event ended with a vote of thanks by the President of Rasagya, expressing gratitude to Prof. Kumar for his valuable insights, to the organizing team for their efforts, and to the participants for their engagement, making the seminar a success. e-certificates were provided to all participants, acknowledging their engagement and participation.

Convener



Prof. Sanjay Kumar

EVENT PERMISSION FORM



Tirumala Tirupati Devasthanams
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Sri Venkateswara College
(University of Delhi)
NAAC Grade A+

IQAC
V. A. J. J. J.

PERMISSION FOR ORGANIZATION OF EVENTS

- NOTE: 1. Please ensure a pre booking of the venue before getting the permission letter signed.
2. A copy of this duly filled form signed by the TIC/ Convener, IQAC Coordinator and Principal shall be submitted to ICT and/or Caretaker for necessary action.
3. Please ensure that the completion certificate of the event is physically signed by the Convener of the event, IQAC Coordinator and Principal after the event report is made.

EVENT DETAILS

- Name of the Department/Society/Association:.....*Chemistry*.....
- Name of the TIC and/or Convener: Prof./Dr./Mr./Ms.....*SANJAY KUMAR*.....
- Proposed Title of the Event: *Chemosensors for the detection of heavy metals & biothiols*
- Nature of Event: Seminar/Conference/Symposium/Workshop/FDP/Public or Community outreach/ Skill enhancement/others (Please specify)*Seminar*.....
- Participants: Student-centric /Faculty/ Other stakeholders (Please specify).....*Student-centric*
- Event Type: Offline/Online/Hybrid; Indoor/Outdoor
- Collaborating Agency /Organization (If any):
- Tentative List of Speakers with affiliations: *Prof. Rakesh Parashar*
Dept. of Chemistry, Univ. of Delhi, Delhi'
- Date & Time (from - to): *20/11/24*, *10:00 am*
- Financial Assistance/ Funding received (if any) (Please specify amount): *Society fund*
- Proposed Budget (please attach details in a separate enclosure): *6000/-*

12. Faculty responsible for Geo Tagged Pictures Prof. SANJAY KUMAR.....
13. Faculty responsible for Event Report Dr. Shikha Gwate.....
14. ICT support required, if any (ICT Lab, Laptop, LCD projector) ✓
15. Caretaker support required (tables, chairs, public addressing system, sanitation, manpower assistance) ✓
16. Venue requirement (Seminar hall/ Ground/others) Seminar Hall.....

TIC/Convenor Prof.

Date: 11/11/24

For official purpose

Comments (If any)

Criteria 2, 3, 5

Vaishali Pathak

IQAC Coordinator

Date: 12/11/2024

V. G.

Principal

Date:

LIST OF PARTICIPANTS










← nep-wepf-mok

People Info Activities

Share joining info













Search for someone

In call

-  ANKITA ANKITA (You)
Visitor
-  Dr. Laishram Saya Devi
Meeting host
-  Harsh Pahuja
Meeting host • Visitor
-  Nandini Pabreja
Meeting host • Visitor
-  Nitesh kushwaha
Meeting host • Visitor
-  Prashansa Yadav
Meeting host • Visitor
-  Priyanshu Ranjan
Meeting host • Visitor
-  ravindra upadhyay
Meeting host • Visitor
-  ravindra upadhyay (Prese...
Meeting host • Visitor














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People Info Activities

-  ravindra upadhyay
Meeting host • Visitor
-  ravindra upadhyay (...
Meeting host • Visitor
-  Saurabh Pandey
Meeting host • Visitor
-  Shikha Gulati
Meeting host
-  Vibha Saxena
Meeting host • Visitor
-  aditi
Visitor
-  Aditya Kumar
Visitor
-  Akriti k
Visitor
-  Amandeep Singh
Visitor
-  Anchal Pandey
Visitor
-  Ankit Sharma
Visitor
-  Ankita
Visitor

← nep-wepf-mok

People Info Activities

-  Arti Sharma
Visitor
-  Ashish
Visitor
-  Atreyee Bagchi
Visitor
-  Babli Kumari
Visitor
-  Bhavya
Visitor
-  Bhumika Singh
Visitor
-  BISHMITA DAS BISHMITA ...
Visitor
-  Deepanshu singh Bisht
Visitor
-  Deepanshu singh Bisht
Visitor
-  deepvijay
Visitor
-  Devansh Parmar
Visitor
-  Dhruv Tiwari
Visitor
-  Diptileena Sahu
Visitor

← nep-wepf-mok

People Info Activities

- diya gahlot Visitor
- Dr. Rekha Yadav Visitor
- Dr. Veera Manohara Reddy... Visitor
- Gauri Jha Visitor
- Geeta Chauhan Visitor
- GEETANJALI GEETANJALI Visitor
- gitikanigam12 Visitor
- Hariom Tiwari Visitor
- Harsh Kumar Visitor
- Harshwardhan Meena Visitor
- Hasna Pk Visitor
- ishita Visitor
- Kanchan Gupta Visitor

← nep-wepf-mok

People Info Activities

- Kanika Visitor
- Kashish Visitor
- Komal Pandit Visitor
- Lav Prasad Visitor
- MAHENOOR BEE MAHENO... Visitor
- Mercy Kutty Jacob Visitor
- Murali Mohan Achari Kams... Visitor
- Muskan Swami Visitor
- Neelam Kumari Visitor
- Nikita Rajpoot Visitor
- Nisha Rawat Visitor
- NISHTHA NISHTHA Visitor
- Payal Visitor

← nep-wepf-mok

People Info Activities

- Piyush Arya Visitor
- Pooja Kumari Visitor
- Prachi Visitor
- Pragya Gahlot Visitor
- Prashant Badgujar Visitor
- Principal Sri Venkateswara... Visitor
- Priyanshi Sharma Visitor
- Prof. Sanjay Kumar Visitor
- RASHI MAHESHWARI RAS... Visitor
- Rashi Saini Visitor
- Ravindra Kumar Upadhyay Visitor
- RIMI RANI RIMI RANI Visitor
- Ritika Visitor

← nep-wepf-mok

People Info Activities

- Ritika Visitor
- Ritika Sharma Visitor
- RONAK GUPTA RONAK GU... Visitor
- rudra kumar Visitor
- Sagar Negi Visitor
- Saima Mahvish Visitor
- SAKSHI KANOJIYA SAKSHI... Visitor
- sakshi khemchandani Visitor
- Saumitra Singh Visitor
- SAURABH SHUKLA SAURA... Visitor
- Shagun maheshwari Visitor
- Shefali Shukla Visitor
- Shivam Kumar Visitor

← nep-wepf-mok

People Info Activities

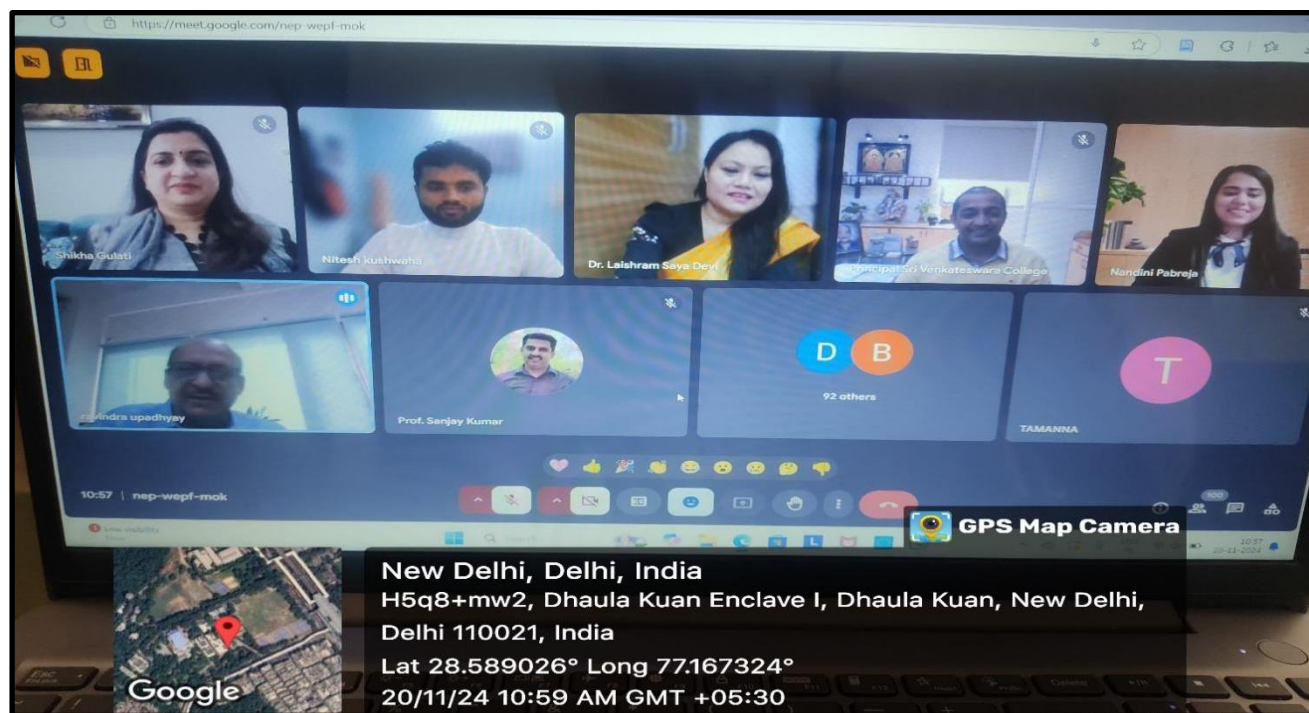
- Shefali Shukla Visitor
- Shivam Kumar Visitor
- Simran Kadian Visitor
- SONAM MEENA SONAM M... Visitor
- Sreya Jayan Visitor
- Subhoshree Saha Visitor
- SUVALI BISWAL SUVALI BI... Visitor
- TAMANNA Visitor
- Tamanna Rapdia Visitor
- TANISHA TANISHA Visitor
- Tanya Virmani Visitor
- Thoti Vasantha Visitor
- Vanya Jha Visitor

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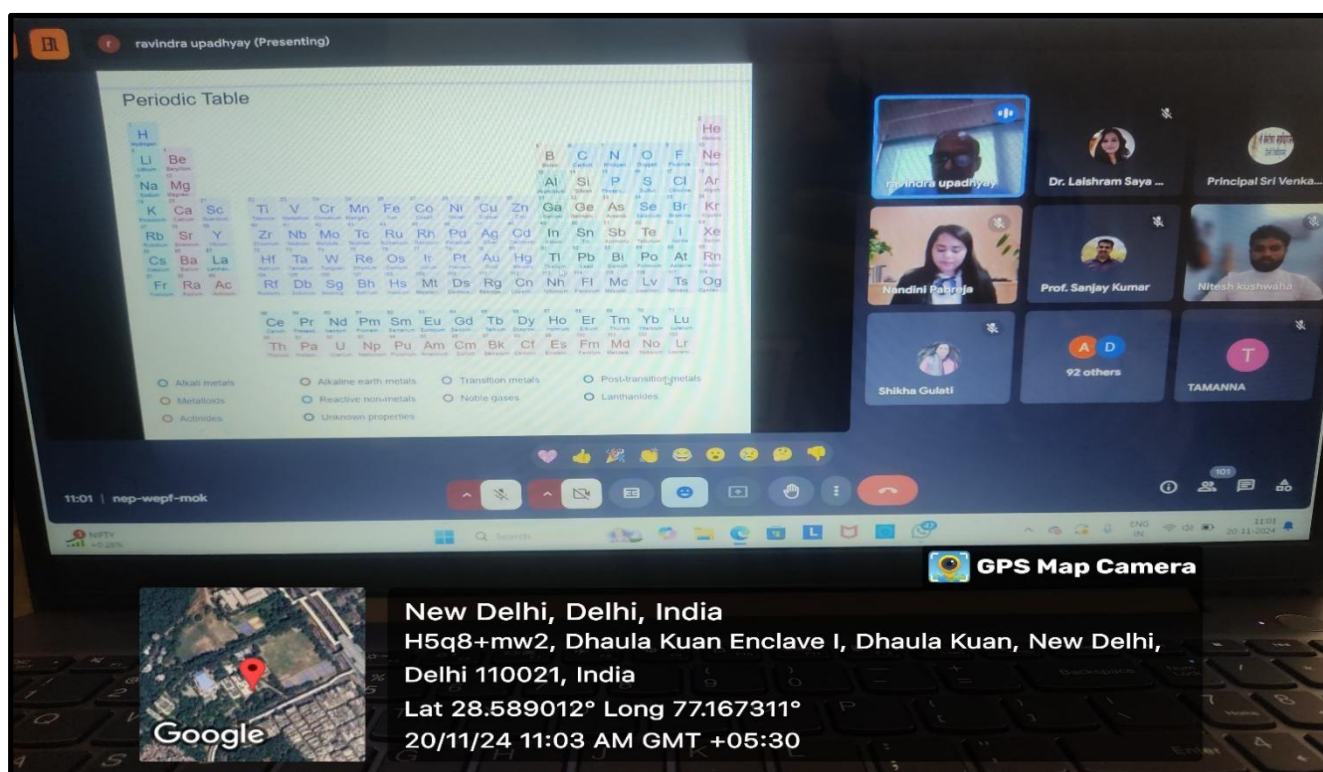
People Info Activities

- Sreya Jayan Visitor
- Subhoshree Saha Visitor
- SUVALI BISWAL SUVALI BI... Visitor
- TAMANNA Visitor
- Tamanna Rapdia Visitor
- TANISHA TANISHA Visitor
- Tanya Virmani Visitor
- Thoti Vasantha Visitor
- Vanya Jha Visitor
- Vetu Chūzho Visitor
- Vinita Kapoor Visitor
- Vranda Singh Visitor
- Yashvardhan Singh Visitor

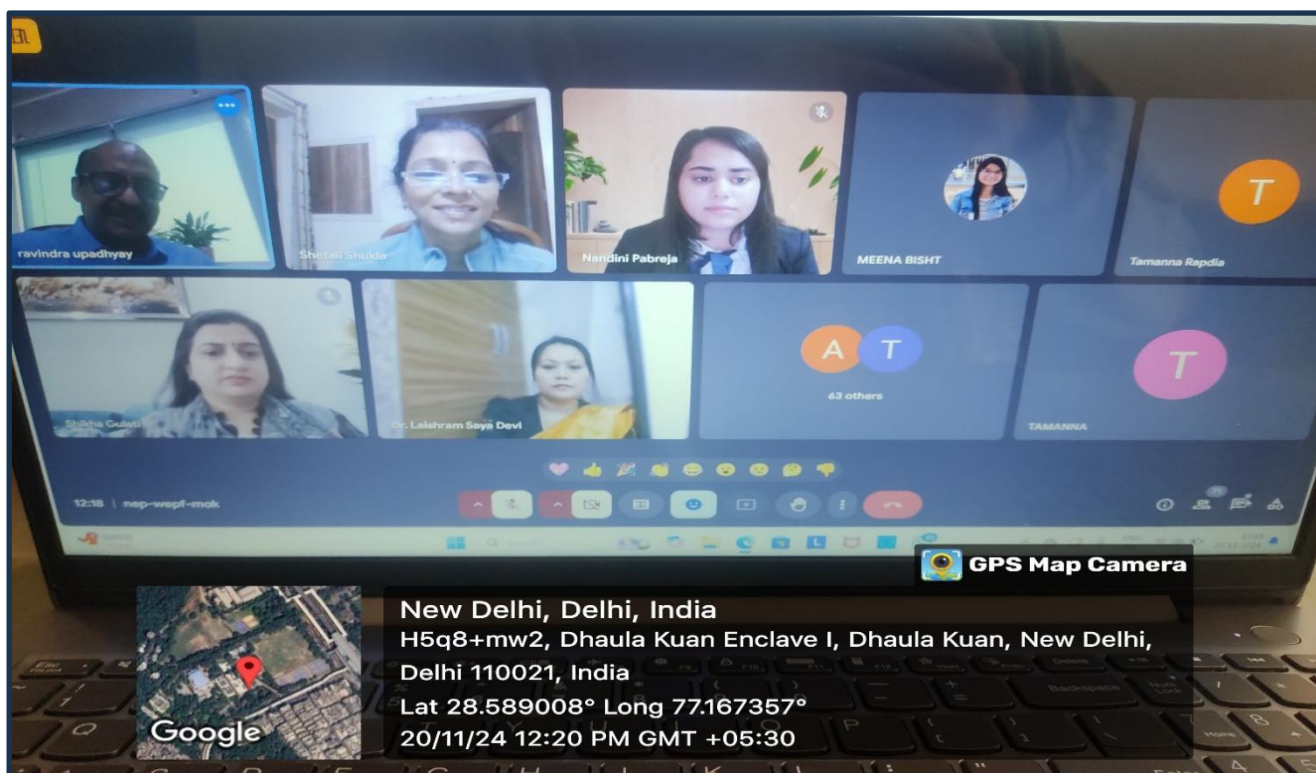
GEO TAGGED PHOTOS



The session commenced with a warm welcome from Convener Prof. Sanjay Kumar, who introduced and welcomed the guest speaker, Prof. Rakesh Kumar, along with other esteemed faculty members.



Prof. Rakesh Kumar defining chemosensors, their importance in detecting specific chemical species and comparing these modern sensors with conventional metal ion detection methods, highlighting their limitations.



Students and faculty engaged actively with Prof. Rakesh Kumar, posing questions about the applications and challenges of chemosensors.

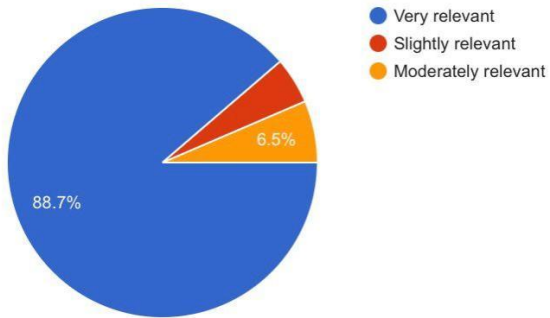
FEEDBACK FORM ANALYSIS

<https://forms.gle/smxm4eTBRvU7SGwE8>

How relevant do you think this topic is for environmental and health safety??

 Copy chart

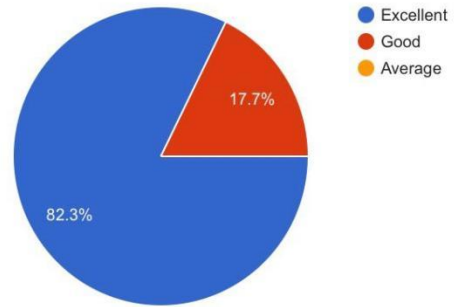
62 responses



How well did the seminar explain the concept of cosmosensors?

 Copy chart

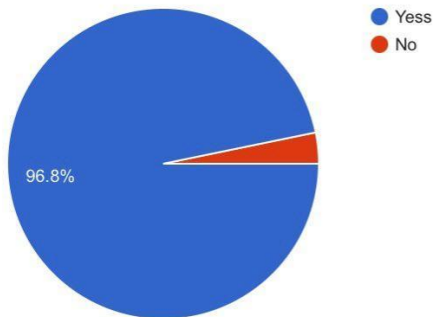
62 responses



Was the presentation content organized and easy to follow?

 Copy chart

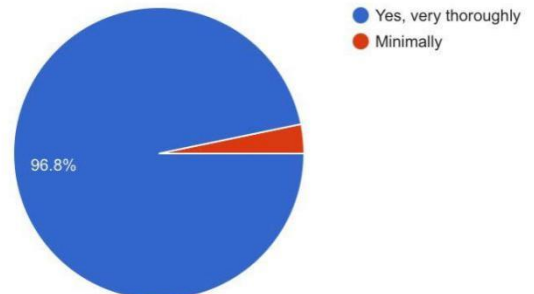
62 responses



Did the seminar provide practical applications of cosmosensors?

 Copy chart

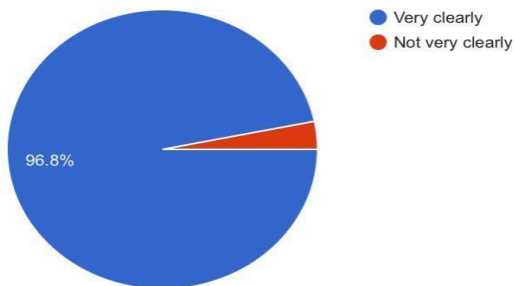
62 responses



Was the process of detecting heavy metals and biothiols clearly explained?

 Copy chart

62 responses



How would you rate the seminar overall?

 Copy chart

62 responses



INFORMATION BROCHURE / POSTER



RASAGYA
THE CHEMICAL SOCIETY
SRI VENKATESWARA COLLEGE
UNIVERSITY OF DELHI
DEPARTMENT OF CHEMISTRY

presents
SEMINAR
on

CHEMOSENSORS FOR THE DETECTION OF HEAVY METALS AND BIOTHIOLS

PROF. RAKESH KUMAR

Professor, Department of Chemistry
University of Delhi, Delhi



*e-certificates for all the
participants*

20 **NOV**
2024

10:30 AM
ONLINE MODE

**REGISTER
NOW!!**



Convenor
Prof. Sanjay Kumar

Event Coordinators
Dr. Laishram Saya Dr. Shikha Gulati

Patron & Principal
Prof. Vajala Ravi

Dr. Mercykutty Jacob
Dr. T. Vasantha
Dr. Murali Mohan Achari

Organizing Committee
Dr. Vibha Saxena
Mr. Harshvardhan Meena
Dr. Yenugu V. Reddy

Dr. Seella Ramanaiah
Dr. Neelam Kumari
Dr. Ravindra Kumar Upadhyay

For further queries contact: Nitesh(President):9794622760

e-CERTIFICATE GIVEN TO PARTICIPANTS



RASAGYA
THE CHEMICAL SOCIETY
SRI VENKATESWARA COLLEGE
UNIVERSITY OF DELHI, NAAC grade A+

CERTIFICATE OF PARTICIPATION

This certificate is proudly presented to

Aditi Yadav of *B.Sc. (Hons.) Biological Sciences*

in recognition of his/her participation in

“Chemosensors at Work: Detecting Heavy Metals and Biothiols” seminar
organised by *Rasagya, the Chemical Society* on 20th November 2024


Prof. Sanjay Kumar
Convenor, Rasagya



Prof. Vajala Ravi
Principal

EVENT COMPLETION CERTIFICATE



Tirumala Tirupati Devasthanams

శ్రీ వేంకటేశ్వర కళాశాల

Sri Venkateswara College

(University of Delhi)

NAAC Grade A+

समापन प्रमाण पत्र **COMPLETION CERTIFICATE**

यह प्रमाणित किया जाता है कि (शीर्षक) को (तारीख) को (समय) पूर्वाह्न/अपराह्न से
पूर्वाह्न/अपराह्न तक (विभाग/समिति) द्वारा (ऑनलाइन/ऑफ़लाइन/हाइब्रिड) माध्यम में
सफलतापूर्वक आयोजित किया गया और इस कार्यक्रम की रिपोर्ट अभिलेख के लिए
आंतरिक गुणवत्ता आश्वासन प्रकोष्ठ (IQAC) को जमा कर दी गई है।

This is to certify that the **seminar on "CHEMOSENSORS FOR THE DETECTION OF HEAVY METALS AND BIOTHIOLS"** was successfully conducted on **20th November 2024** from **10:30 am/pm to 12:30 am/ pm** by **RASAGYA, Chemical Society, Department of Chemistry** in the **Online** mode and its event report has been submitted to IQAC for records.


Event-in-Charge


IQAC Coordinator
Coordinator, IQAC
Sri Venkateswara College
(University of Delhi)
Dhaulta Kuan, New Delhi-110021


Principal
श्री वेंकटेश्वर महाविद्यालय
Sri Venkateswara College
दिल्ली विश्वविद्यालय / University of Delhi
धौला कुआं, नई दिल्ली / Dhaulta Kuan, New Delhi-21