

The Chemistry Society Activities Data for 2023-24 from August 2023 to May 2024

Conducted or Organized Conferences / Symposia / Seminars / Workshops /Lecture Series / Alumni Meet/ Fests

| S. No. | Event Type | Title | Level | Names of Guest speaker(s), if applicable, and short description of the event | Number of Participants | Date |
|------------------------|-------------|--|---------------|--|------------------------|----------------|
| 1 | Event | Chemistry Society Orientation | College Level | First year students welcomed in society and introduced to the society events and initiatives. | 65 | 25/08/2023 |
| 2 | Seminar | Scholars' Meet (Day1) | College Level | The initiative was to explore potential higher education opportunities and other non-science career paths. Speakers: Diksha Dewan , Felix Scholar at Oxford and Gates Cambridge Scholar at Cambridge University Jay Ingle , Business Analyst at Comport and Former Actuarial Analyst at Accenture Rhea Mathew , MRes in Green Chemistry, Energy and Environment at Imperial College, London. | 73 | 09/09/2023 |
| 3 | Seminar | Scholars' Meet (Day2) | College Level | The initiative was to explore potential higher education opportunities and other non-science career paths. Speakers: Yogita , Erasmus Mundus Scholar, Master's Student, Paris Saclay University, France. Ludhiya Johnson , Independent Policy Consultant, OECD Mohd Faizan Khan , Master's in Chemistry, IIT Ropar | 60 | 10/09/2023 |
| 4 | Lecture | Lecture by Dr. David J Fermin | College Level | Speaker: Dr. David J Fermin Professor of Electrochemistry, University of Bristol; A lecture on "Material challenges in Active Components for Photovoltaics and Green Hydrogen Generation" | 84 | 27/09/2023 |
| 5 | Seminar | Career Counselling | College Level | A session in collaboration with Chem Academy on " Future opportunities after an undergraduate degree in Chemistry" | 50 | 06/10/2023 |
| 6 | Lecture | Inaugural Lecture | College Level | Speaker: Prof. Haridas V, Department of Chemistry, IIT Delhi; A lecture on "Molecules of Life" | 85 | 13/10/2023 |
| 7 | Event | Lab Workshop | College Level | A Lab Workshop for the Evening Classes Students, in collaboration with the Social Service League | 13 | 20/10/2023 |
| 8 | Event | Release of Megaphone | College Level | The release of the First Edition of the newsletter Megaphone . | | 30/10/2023 |
| 9 | Lecture | Lecture by Prof. Sourav Biswas | College Level | Speaker: Prof. Sourav Biswas, Assistant Professor, Department of Chemistry, SUNY Buffalo State University, USA; A lecture on "Merging Nanoscience and Green Chemistry: Towards Sustainable Catalysis" | 50 | 31/10/2023 |
| 10 | Seminar | Compete with confidence: Session on how to participate in intercollege competitions | College Level | Session by Samarth Bhatnagar on how to prepare for Inter-college Paper Presentation Competitions | 27 | 22/01/2024 |
| 11 | Event | Release of Megaphone | College Level | The release of the Second Edition of the newsletter Megaphone . | | 10/02/2024 |
| ALCHEMESIS 2024 | | | | | | |
| 12 | Lecture | Inaugural Lecture | Inter-college | Speaker: Prof. Sasanka Deka, Department of Chemistry, University of Delhi; The Inaugural lecture on "Advances in Nanochemistry for Energy Conversion and Storage" | 94 | 14/02/2024 |
| 13 | Competition | Treasure Hunt | College Level | Treasure hunt game with questions related to general science | 28 | 14/02/2024 |
| 14 | Competition | Crystal Growing Competition | College Level | Crystal Growing competition for students from all departments except Chemistry | 53 | 15/02/2024 |
| 15 | Competition | Dr C J Raphael Memorial Debate | Inter-college | Intercollege debates on the various hot topics related to science | 17 | 15, 16/02/2024 |
| 16 | Competition | Photography Competition | Inter-college | An inter-college photography competition | 26 | 16/02/2024 |

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| 17 | Competition | Chemathon- Science Quiz | Inter-college | An inter-college quiz competition | 55 | 16/02/2024 |
| 18 | Lecture | Concluding Lecture | Inter-college | Speaker: Dr Alok Kumar Rai, Department of Chemistry, University of Delhi; Lecture on " Facile approaches to enhance the Quality of Anode Materials for high-performance Lithium and Sodium-Ion Batteries" | 50 | 16/02/2024 |
| | | | | | | |
| 19 | Lecture | Lecture by Vidhi Sehrawat | College Level | Speaker: Vidhi Sehrawat, PhD Student, Jagiellonian University, Krakow, Poland; Lecture on "A green molecular dynamics- based approach to explore the world of glycans" | 58 | 19/02/2024 |
| 20 | Lecture | Lecture by Dr. Anukul Jana | College Level | Speaker: Dr. Anukul Jana, Associate Professor, TIFR Hyderabad; A lecture on "A convenient access of Alkenes and Carbocations: Synthons for various closed and open shell compounds" | 34 | 11/03/2024 |
| 21 | Lecture | Lecture by Dr. Sarbajit Banerjee | College Level | Speaker: Dr Sarbajit Banerjee, Professor, Davidson Chair in Science, A&M University, Texas; Lecture on "Melding minds and machines" | 50 | 13/03/2024 |
| 22 | Lecture | Charusita Memorial Lecture (Day 1) | College Level | Speaker: Prof. Ali Alavi, Department of Chemistry, University of Cambridge & Director at the Max Planck Institute of Solid State Research, Stuttgart, Germany; A lecture in the memory of Late Dr. Charusita Chakravarty by Prof Ali Alavi on "Electron correlation problems and highly accurate quantum chemistry methods" | 110 | 21/03/2024 |
| 23 | Lecture | Charusita Memorial Lecture (Day 2) | College Level | Speaker: Prof. Ali Alavi, Department of Chemistry, University of Cambridge & Director at the Max Planck Institute of Solid State Research, Stuttgart, Germany; A lecture in the memory of Late Dr. Charusita Chakravarty by Prof Ali Alavi on "Electron correlation problems and highly accurate quantum chemistry methods" | 77 | 22/03/2024 |
| 24 | Event | Release of OXYGEN | College Level | Release of the Annual Journal of The Chemistry Society: OXYGEN 2024 | | 26/04/2024 |
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SOCIETY ACTIVITY REPORT 2023-24

THE CHEMISTRY SOCIETY

Orientation 2023-24

Date: 25th August 2023

Venue: OPLT, Science Block

No. of participants: Stephen's - 65

The Chemistry Society recently organized an orientation program for First-year students, which witnessed a large participation from various courses, including BA Multidisciplinary Studies, BSc Programme with Computer Science and Chemistry, and BSc (Hons) Chemistry. The event started with a formal introduction by President Samarth Bhatnagar, who gave a brief description of the society and its work. All the third-year members then introduced themselves and their respective positions and explained their work in the society. Following this, the second-year council members introduced themselves and the six verticals of the society, including finance, publicity, fests, editorial team, and logistics.

The orientation program gave the new members insight into the functioning of the society. The Oxygen sub-editors, Ann Riya and Shreya explained to the audience about the annual journal Oxygen and the newsletter, Megaphone, the First-Year students were keen to learn about it and give in their entries. The students were informed about the Charusita Memorial Lecture by Sneha and Likhith, the biggest lecture organized in college. The participants were made familiar with the annual fest of the society, Alchemesis by Prashujya, and also about the interesting events like Lectures, Chemathon, Treasure Hunt, Dr. C.J. Raphael Debate Competition and Crystal Growing Competition. The new members were excited to participate in these competitions. Aman and Iwin later talked about the society's merchandise and other events the society organized like the Inaugural Lecture, Scholars' Meet, and workshops on Paper Reading Competitions and Cosmetics.

Later, the council members and the newcomers got together for a delightful, informal session. The participants enjoyed playing a variety of games, including Pictionary, which was full of laughter and amusement. Additionally, the group engaged in fun quiz rounds, which allowed everyone to showcase their knowledge and interact with each other. Overall, the informal session was a great success, and everyone left feeling more connected and energized.

The participants were very eager to know more about the society and work with the council members. The orientation program was a very fun way of introducing the society and its members to the new students and promoting interest in the subject of chemistry.



ST. STEPHEN'S COLLEGE

ATTENDANCE SHEET FOR PARTICIPANTS

Name of Society: The Chemistry Society

Title of event: Orientation 2023-24

Date: 25th August 2023

| S No. | Name | Course | College |
|-------|---------------------|---------------------------------|-----------------------|
| 1 | Lingampalli Likhith | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 2 | Prashujya Garg | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 3 | Sneha Sangwan | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 4 | Ann Riya Selvi | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 5 | Shreya Rawat | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 6 | Aman Singh | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 7 | Iwin Jojo | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 8 | Timothy Gladston | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 9 | Debangana Gogoi | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |

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|----|-------------------|---------------------------------|-----------------------|
| 10 | Samarth Bhatnagar | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 11 | Manmayi Mohapatra | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 12 | Manav Jaison | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 13 | Alen George | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 14 | Himangshu Goswami | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 15 | Kavyansh Saxena | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 16 | Anshu Nehra | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 17 | Anushka Negi | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 18 | Ritik Tiwari | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 19 | Aman Bisht | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 20 | Aravind Yadav | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 21 | Dev Chaudhary | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 22 | Edward | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 23 | Ishika | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 24 | Nebin Benny | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 25 | Priyanshu | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 26 | Ritika Khess | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 27 | Shraddha Jaiswal | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 28 | Vansh | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 29 | Alna | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 30 | Utkarsh Yadav | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 31 | Adepa | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 32 | Alma | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 33 | Siddharth Mishra | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 34 | Pihu | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 35 | Aarushi | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 36 | Bhumi Singh | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 37 | Ravindrajeet | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 38 | Yusuf | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 39 | Harshvardhan | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 40 | Hanna | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 41 | Manas | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 42 | Nandan | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 43 | Anurag | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 44 | Olive Masih | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |

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| 45 | Akshita | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 46 | Neha S Paul | BA. Programme, Semester 1 | St. Stephen's College |
| 47 | Suhani Mehta | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 48 | Anchal | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 49 | Chinki | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 50 | Rhea Sabharwal | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 51 | Christymol | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 52 | Anna KB | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 53 | Ashli | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 54 | Ashly Rachel | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 55 | Devanshu Lalwani | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 56 | Serena Denny | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 57 | Risa Joseph | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 58 | Judith Pulamte | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 59 | Taniya | BA. (H) English, Semester 1 | St. Stephen's College |
| 60 | Ng Havanai | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 61 | Ayush George | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 62 | Savio Sibi | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 63 | James Matthew | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 64 | Gauri Parihar | B. Sc. Programme with Chemistry, Semester 1 | St. Stephen's College |
| 65 | Himanshi | B. Sc. Programme with Chemistry, Semester 1 | St. Stephen's College |

SOCIETY ACTIVITY REPORT 2023-24

THE CHEMISTRY SOCIETY

Scholars' Meet 2023

The Chemistry Society of St. Stephen's College conducted an online scholars' meet for the academic year 2023-2024. The event was held in two days: 9th September, 2023 (Saturday) and 10th September, 2023 (Sunday). The initiative was to explore potential higher education opportunities and other non-science career paths.

DAY 1

Date: 09/09/2023

Time: 11:00 AM

Number of participants: 73 (St. Stephen's College- 66, Other Colleges- 7)

Speakers present-

- Diksha Dewan, Felix Scholar at oxford and Gates Cambridge Scholar at Cambridge University
- Jay Ingle, Business Analyst at Comport and Former Actuarial Analyst at Accenture
- Rhea Mathew, MRes in Green Chemistry, Energy and Environment at Imperial College, London.

The event began at 11:00AM with a warm welcome by Iwin Jojo, Events coordinator of the Chemistry Society. Following this we started the sessions with the introduction of the day's speakers.

Diksha Dewan was the opening speaker, and the session concentrated on the requirements, application procedures, and scholarship opportunities at institutions like Oxford, Cambridge, and other UK universities. Following Diksha, Jay Ingle, the second speaker shared his professional experiences and offered valuable advice on achieving success in the corporate realm. Rhea Mathew, the third speaker, recounted her personal journey of applying for a Master's program in Europe, providing comprehensive insights into the application process and giving us a clear picture of the various considerations we should keep in mind.

After the presentations, the speakers and the attendees engaged in question-answer sessions. Sneha, Sponsorship Head of the Chemistry Society, gave the vote of thanks as the day1 of the event came to an end.

DAY 2

Date: 10/09/2023

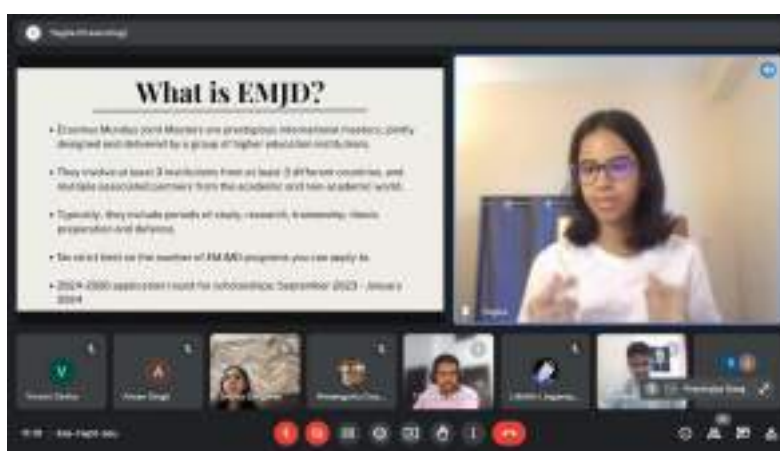
Time: 11:00 AM

Number of participants: 65 (St. Stephen's College- 55, Other Colleges- 10)

Speakers present:

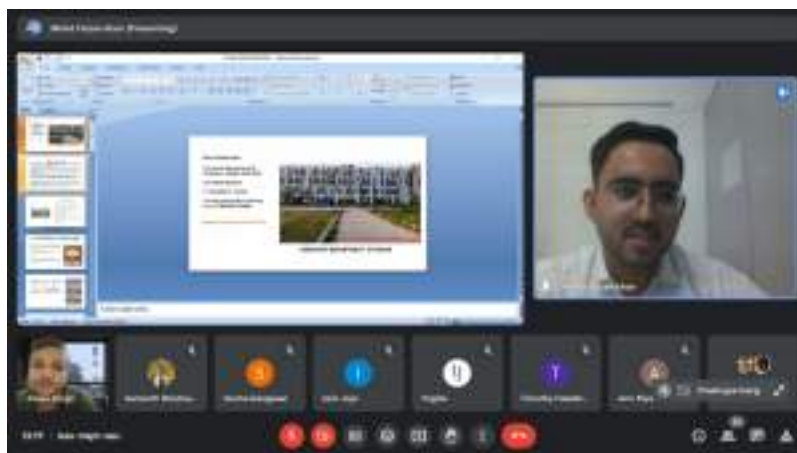
- Yogita, Erasmus Mundus Scholar, Master's Student, Paris Saclay University, France.
- Ludhiya Johnson, Independent Policy Consultant, OECD
- Mohd Faizan Khan, Master's in Chemistry, IIT Ropar

The second day of the event started at 11:00 AM with a warm welcome from Aman Singh, Logistics head of the Chemistry Society, following which we started the sessions by introducing the speakers of the day.



Yogita, the first speaker of the day, guided us through the process of applying for programs and securing funding through the Erasmus Mundus program. Ludhiya Jhonson, the second speaker, provided insight into the field of public policy and shared her experiences as an Independent Policy Consultant at the OECD. The third speaker, Mohd Faizan Khan, delved into strategies for clearing the IIT JAM examination and provided a comprehensive overview of the courses offered by IITs. Following their presentations, the speakers engaged in Q&A sessions with the audience, where the speakers resolved all the concerns and doubts raised.

Iwin Jojo, Events coordinator of the Chemistry Society proposed the Vote of Thanks as the event came to an end.



DAY2 10/09/2023

In summary, the event offered the audience valuable insights into higher education and career prospects, both in India and abroad. The speakers also shared their experiences in honing their research skills through internships and projects. Furthermore, all the speakers emphasized the importance of making well-informed decisions about whether to pursue further studies in their areas of interest or seek employment, considering their individual abilities and needs. Additionally, they spoke about the significance of maintaining positive relationships with professors for strong letters of recommendation and the value of extracurricular activities in shaping students' overall character and personality, which would prove beneficial in their future. Overall, the audience acquired a wealth of knowledge and inspiration that will prove beneficial in their pursuit of excellence as they embark on their respective journeys.

ST. STEPHEN'S COLLEGE

ATTENDANCE SHEET FOR THE PARTICIPANTS

Name of the Society: The Chemistry Society

Title of the event: **Scholar's Meet 2023**

Date: 9th and 10th September 2023

DAY 1 (09 September 2023)

| S.No. | Name | Course | College |
|--------------|---------------------|--|-----------------------------------|
| 1 | Lingampalli Likhith | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 2 | Prashujya Garg | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 3 | Sneha Sangwan | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 4 | Ann Riya Selvi | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 5 | Shreya Rawat | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 6 | Aman Singh | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 7 | Iwin Jojo | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 8 | Timothy Gladston | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 9 | Debangana Gogoi | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 10 | Samarth Bhatnagar | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 11 | Manmayi Mohapatra | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 12 | Manav Jaison | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 13 | Alen George | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 14 | Himangshu Goswami | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 15 | Ashli | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 16 | Anurag Kachary | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 17 | Nebin Benny | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 18 | Shambhavi Jha | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 19 | Rohit Raj | B. Sc. (H) Physics, Semester 1 | St. Stephen's College |
| 20 | Priyanshu | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 21 | Siddhant Mishra | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 22 | Rachel Batra | B.A. (H) Economics, Semester 5 | St. Stephen's College |
| 23 | Himalya | B.Sc. (H) Physics, Semester 3 | St. Stephen's College |
| 24 | Koushal | B.Sc. (H) Physics, Semester 3 | St. Stephen's College |
| 25 | Inderpal Singh | B.A. Programme, Semester 5 | St. Stephen's College |
| 26 | Rohan Qureshi | B.A. Programme, Semester 5 | St. Stephen's College |
| 27 | Rhea Matthew | M.Sc. Environmental Science, Semester 1 | Imperial College London |
| 28 | Diksha Dewan | PhD Student, Department of Chemistry | University of Cambridge |
| 29 | Jay Ingle | Business Analyst | Commport |
| 30 | Indrashish | Department of Chemistry, Semester 3 | University of Regensburg, Germnay |

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| 31 | Ludhia Johnson | Independent Policy Consultant | Working at OECD |
| 32 | Mohammed Faizan | Department of Chemistry, Semester 1 | IIT Ropar |
| 33 | Yogita | SERP+, Semester 1 | Paris Saclay University, France |
| 34 | Kavyansh Saxena | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 35 | Anshu Nehra | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 36 | Anushka Negi | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 37 | Edward | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 38 | Ishika | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 39 | Allen | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 40 | Alna | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 41 | Utkarsh Yadav | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 42 | Adepa | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 43 | Alma | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 44 | Suhani Mehta | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 45 | Anchal | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 46 | Chinki | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 47 | Rhea Sabharwal | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 48 | Devanshu Lalwani | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 49 | Serena Denny | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 50 | Risa Joseph | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 51 | Judith Pulamte | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 52 | James Matthew | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 53 | Ayush George | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 54 | Annriya Tom | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 55 | Divya Mariyam Biju | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 56 | Jeslin Thomas | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 57 | Nandan | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 58 | Tamanna Vashisht | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 59 | Nelan Akanksha Topno | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 60 | Malika Mondal | B.A. (H) Economics, Semester 5 | St. Stephen's College |
| 61 | Vidushi Gupta | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 62 | Yasha Chowadhary | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 63 | Hitakshi Bedi | B.A. (H) Economics, Semester 5 | St. Stephen's College |
| 64 | Siyah Pant | B.A. (H) Economics, Semester 5 | St. Stephen's College |
| 65 | Nickson | B.Sc.P Computer Science, Semester 5 | St. Stephen's College |
| 66 | Swara Mishra | B.Sc. (H) Physics, Semester 5 | St. Stephen's College |

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|----|-------------------|----------------------------------|-----------------------|
| 67 | Smriti Inis Dayal | B.A. (H) Economics, Semester 5 | St. Stephen's College |
| 68 | Divya Jha | B.A. Programme, Semester 5 | St. Stephen's College |
| 69 | Mimamsa Bharti | B.A. Programme, Semester 5 | St. Stephen's College |
| 70 | Aditi | B.A. Programme, Semester 5 | St. Stephen's College |
| 71 | Arpith | B.Sc. (H) Physics, Semester 3 | St. Stephen's College |
| 72 | Gaurav | B.Sc. P Chemistry, Semester 3 | St. Stephen's College |
| 73 | Brian | B. A. (H) Philosophy, Semester 1 | St. Stephen's College |

DAY 2 (10 September 2023)

| S.No. | Name | Course | College |
|-------|---------------------|---------------------------------|-----------------------|
| 1 | Lingampalli Likhith | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 2 | Prashujya Garg | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 3 | Sneha Sangwan | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 4 | Ann Riya Selvi | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 5 | Shreya Rawat | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 6 | Aman Singh | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 7 | Iwin Jojo | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 8 | Timothy Gladston | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 9 | Debangana Gogoi | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 10 | Samarth Bhatnagar | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 11 | Manmayi Mohapatra | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 12 | Manav Jaison | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 13 | Alen George | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 14 | Himangshu Goswami | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 15 | Ashli | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 16 | Anurag Kachary | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 17 | Nebin Benny | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 18 | Shambhavi Jha | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 19 | Rohit Raj | B. Sc. (H) Physics, Semester 1 | St. Stephen's College |
| 20 | Priyanshu | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 21 | Siddhant Mishra | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 22 | Rachel Batra | B.A. (H) Economics, Semester 5 | St. Stephen's College |
| 23 | Himalya | B.Sc. (H) Physics, Semester 3 | St. Stephen's College |

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| 24 | Koushal | B.Sc. (H) Physics, Semester 3 | St. Stephen's College |
| 25 | Rhea Matthew | M.Sc. Environmental Science, Semester 1 | Imperial College London |
| 26 | Diksha Dewan | PhD Student, Department of Chemistry | University of Cambridge |
| 27 | Jay Ingle | Business Analyst | Commport |
| 28 | Indrashish | Department of Chemistry, Semester 3 | University of Regensburg, Germany |
| 29 | Ludhia Johnson | Independent Policy Consultant | Working at OECD |
| 30 | Mohammed Faizan | Department of Chemistry, Semester 1 | IIT Ropar |
| 31 | Yogita | SERP+, Semester 1 | Paris Saclay University, France |
| 32 | Kavyansh Saxena | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 33 | Ridhima Raina | S-DISCO, Semester 3 | Ghent University, Belgium |
| 34 | Aravind Ravi | S-DISCO, Semester 1 | Ghent University, Belgium |
| 35 | Prachi Sharma | SUCAT, Semester 1 | University of Poitiers, France |
| 36 | Suhani Mehta | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 37 | Anchal | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 38 | Chinki | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 39 | Rhea Sabharwal | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 40 | Devanshu Lalwani | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 41 | Serena Denny | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 42 | Risa Joseph | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 43 | Judith Pulamte | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 44 | James Matthew | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 45 | Ayush George | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 46 | Annriya Tom | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 47 | Divya Mariyam Biju | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 48 | Jeslin Thomas | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 49 | Nandan | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 50 | Tamanna Vashisht | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 51 | Nelan Akanksha Topno | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 52 | Malika Mondal | B.A. (H) Economics, Semester 5 | St. Stephen's College |
| 53 | Vidushi Gupta | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 54 | Yasha Chowadhary | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 55 | Hitakshi Bedi | B.A. (H) Economics, Semester 5 | St. Stephen's College |
| 56 | Siyah Pant | B.A. (H) Economics, Semester 5 | St. Stephen's College |

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|----|---------------|-------------------------------------|-----------------------|
| 57 | Nickson | B.Sc.P Computer Science, Semester 5 | St. Stephen's College |
| 58 | Swara Mishra | B.Sc. (H) Physics, Semester 5 | St. Stephen's College |
| 59 | Anshu Nehra | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 60 | Anushka Negi | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 61 | Edward | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 62 | Alna | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 63 | Utkarsh Yadav | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 64 | Adepa | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 65 | Alma | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |

SOCIETY ACTIVITY REPORT 2023-24

THE CHEMISTRY SOCIETY

Lecture on “Material challenges in active components for photovoltaics and green hydrogen generation.”

Date: 27th September 2023

Venue: NCLT, Science Block

Speaker: Dr David J Fermin, Head of Bristol electrochemistry and Solar group at University of Bristol

No. of participants: Stephen's- 83, Outside Stephen's- 1

The session began with a brief informal session with Dr. David J Fermin and his companion Prof. Charl F J Faul, Head of Inorganic and Material Chemistry at the University of Bristol, where they interacted with the participants regarding the research in the University of Bristol, importance of research and the prospects for students interested in pursuing higher studies in the university. Following this, the formal session began with a welcome speech and introduction of the speaker by Shreya.

Dr David J Fermin, Head of Bristol electrochemistry and Solar group at University of Bristol, delivered the lecture on “*Material challenges in active components for photovoltaics and green hydrogen generation.*” His expertise in the field was evident throughout the lecture as he discussed the latest developments and breakthroughs in the field. His presentation on sustainable photovoltaic technologies, solar energy conversion technology, oxygen electrocatalysis and Hydrogen gas production, was very informative. His ability to captivate and inform simultaneously has left an indelible impression, igniting a collective passion to explore further into the realm of sustainable technologies.

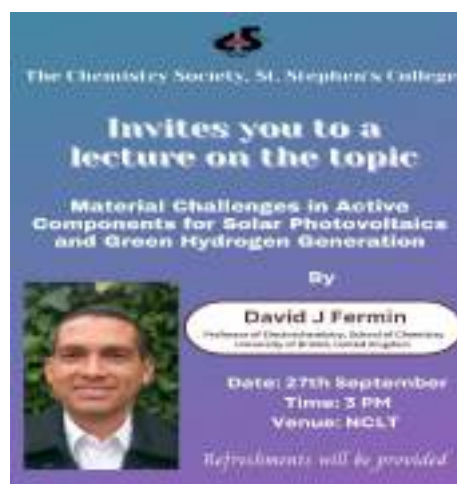
The discussion on cutting-edge innovations such as the CuZnS tin and Selenium sustainable thin film photovoltaic technology, as well as the exploration of Lanthanum-based materials augmented with diverse Nickel and Manganese modifications, was particularly enlightening. The CuZnS tin and Selenium sustainable thin film photovoltaic technology represents a cutting-edge approach to harnessing solar energy, utilizing environmentally friendly materials to enhance efficiency and longevity. Lanthanum-based materials, when modified with Nickel and Manganese, showcase the remarkable potential for catalyzing oxygen electro-catalysis and facilitating hydrogen (H₂) production, crucial components of renewable energy systems. These advancements exemplify the intersection of materials science and sustainable technology, offering promising solutions to address the pressing challenges of climate change and energy sustainability. These examples vividly demonstrate the multifaceted landscape of materials science and its pivotal role in advancing renewable energy solutions, imperative in addressing the urgent challenges posed by climate change

and dwindling fossil fuel reserves. With escalating concerns over greenhouse gas emissions and their detrimental impact on the environment, transitioning to renewable sources such as solar, wind, and hydroelectric power is paramount.

Furthermore, his insights into the challenges inherent in the thin film photovoltaic domain provided invaluable early exposure to the nuanced thinking processes essential for impactful research endeavours. Through his guidance, the audience gained a deeper understanding of the meticulous planning and innovative problem-solving required to overcome obstacles in this dynamic field.

His use of examples and illustrations was helpful for the audience to understand complex concepts. The Q&A session was very informative and interactive as students engaged in a fruitful discussion with the speaker, further reinforcing the students' understanding of the topic.

Prashujya Garg delivered the vote of thanks as the event came to an end. Overall the session provided valuable information and the students were grateful for the opportunity to learn from an expert in the field.



ST. STEPHEN'S COLLEGE
ATTENDANCE SHEET FOR PARTICIPANTS

Name of Society: The Chemistry Society

Title of event: Lecture on "Material challenges in active components for photovoltaics and green hydrogen generation."

Date: 27th September 2023

| S.No. | Name | Course | College |
|-------|-----------------------|----------------------------------|-----------------------|
| 1 | Dr. Jyotirmoy Maity | Faculty, Department of Chemistry | St. Stephen's College |
| 2 | Dr. Vibha Sharma | Faculty, Department of Chemistry | St. Stephen's College |
| 3 | Dr. Ekta Kundra Arora | Faculty, Department of Chemistry | St. Stephen's College |
| 4 | Dr. Aditi Gupta | Faculty, Department of Chemistry | St. Stephen's College |
| 5 | Dr. Kavya Bhakuni | Faculty, Department of Chemistry | St. Stephen's College |
| 6 | Dr. Megha Munjal | Faculty, Department of Chemistry | St. Stephen's College |
| 7 | Dr. Garima Khanna | Faculty, Department of Chemistry | St. Stephen's College |
| 8 | Edward | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 9 | Anurag Kachary | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 10 | Kavyansh Saxena | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 11 | Harshvardhan | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 12 | Siddhant Mishra | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 13 | Shambhavi Jha | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 14 | Adepa | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 15 | Alna | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 16 | Alma | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 17 | Utkarsh Yadav | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 18 | Yusuf | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 19 | Ravinderjeet | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 20 | Nebin Benny | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 21 | Ritika Khess | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 22 | Priyanshu | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 23 | Tanay Agarwal | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 24 | Suhani Mehta | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 25 | Nandan | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |

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|----|---------------------|---------------------------------|-----------------------|
| 26 | Yatin | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 27 | Surekha | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 28 | Jobin | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 29 | Manas | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 30 | Nancy | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 31 | Lingampalli Likhith | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 32 | Prashujya Garg | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 33 | Sneha Sangwan | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 34 | Ann Riya Selvi | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 35 | Shreya Rawat | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 36 | Aman Singh | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 37 | Iwin Jojo | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 38 | Ritik Tiwari | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 39 | Tejasi Gupta | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 40 | Rhea Sabharwal | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 41 | Chinki | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 42 | Anshu Nehra | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 43 | Akshita Batra | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 44 | Olive Masih | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 45 | Madhavan | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 46 | Anushka Negi | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 47 | Arjit Srivastava | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 48 | Ashli | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 49 | Ashly Rachel | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 50 | Chinki Baniwal | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 51 | Christymol | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 52 | Anna KB | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 53 | Payal | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 54 | Sahil Joseph | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 55 | Timothy Gladston | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 56 | Debangana Gogoi | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 57 | Samarth Bhatnagar | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 58 | Manmayi Mohapatra | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 59 | Manav Jaison | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 60 | Alen George | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 61 | Himangshu Goswami | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 62 | Tamanna Vashist | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |

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|----|-----------------------|----------------------------------|---------------------------|
| 63 | Prachi Agarwal | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 64 | Divya Mariam Biju | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 65 | Nelan Akanaksha Topno | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 66 | Evelyn Marie | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 67 | Aleesha Jacob | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 68 | Amani Taxak | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 69 | Amrutha E | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 70 | Anita Sebastian | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 71 | Annriya Tom | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 72 | Ayush George | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 73 | Aleena | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 74 | Devanshu Lalwani | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 75 | Ng Havanai | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 76 | Jeslin Thomas | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 77 | Judith Pulamte | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 78 | Monika Yadav | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 79 | Priyanka Parihar | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 80 | Serena Denny | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 81 | Shobhika Kaimwal | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 82 | Simran Mehlawat | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 83 | Vidushi Gupta | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 84 | Prof. Charl FJ Faul | Faculty, Department of Chemistry | University of Bristol, UK |

SOCIETY ACTIVITY REPORT 2023-24

THE CHEMISTRY SOCIETY

Seminar on "Future Opportunities After an Undergraduate Degree in Chemistry."

Date: 06th October 2023

Venue: NCLT, Science Block

No. of participants: Stephen's - 50

The Chemistry Society of St. Stephen's College collaborated with Chem Academy to host a seminar that explored the numerous opportunities available to graduates with a Bachelor's degree in Chemistry. The seminar began with a warm welcome by Ann Riya, who introduced ChemAcademy and its mission. She then introduced the speaker, Mr. Pradeep.

With his expertise, Mr. Pradeep guided the audience through the various higher education opportunities available in Chemistry. He highlighted prestigious institutions across India, including the IITs, IISc, and IISERs, NITs which are known for their excellence. He also talked about the Tata Institute of Fundamental Research (TIFR), which is respected for its groundbreaking research in fundamental sciences.

Mr. Pradeep discussed the challenging yet rewarding process of gaining admission to these premier institutes. He highlighted the rigorous entrance examinations required, such as JAM for IITs, GATE for M.Tech programs, and other national screening tests. Beyond the realm of academia, Mr. Pradeep illuminated the diverse career pathways awaiting those with a Master's degree in Chemistry. There are opportunities in pharmaceuticals, biotechnology, environmental science, and materials science, among others, offering intellectual stimulation and a tangible impact on society.

After the presentation, the seminar took an interactive turn with a quiz session where attendees participated enthusiastically, showcasing their knowledge and wit. The quiz session was followed by the awarding of prizes, fostering camaraderie among participants.

The seminar ended with a heartfelt Vote of Thanks by Sneha, expressing gratitude to all who contributed to the event's success. Samarth, representing the Chemistry Society, extended a token of appreciation to the ChemAcademy team, whose expertise and support made the seminar possible.

Overall, the seminar enriched the attendees' knowledge and expanded their horizons, leaving them with a renewed sense of purpose and ready to embark on their journeys in the captivating realm of chemistry.



ST. STEPHEN'S COLLEGE
ATTENDANCE SHEET FOR PARTICIPANTS

Name of Society: The Chemistry Society

Title of event: Seminar on "Future Opportunities After an Undergraduate Degree in Chemistry."

Date: 06th October 2023

| S.No. | Name | Course | College |
|-------|---------------------|---------------------------------|-----------------------|
| 1 | Lingampalli Likhith | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 2 | Prashujya Garg | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 3 | Sneha Sangwan | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 4 | Ann Riya Selvi | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 5 | Shreya Rawat | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 6 | Aman Singh | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 7 | Iwin Jojo | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 8 | Timothy Gladston | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 9 | Debangana Gogoi | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 10 | Samarth Bhatnagar | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 11 | Manmayi Mohapatra | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 12 | Manav Jaison | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 13 | Alen George | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 14 | Himangshu Goswami | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 15 | Nebin Benny | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 16 | Yusuf | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 17 | Priyanshu | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 18 | Kavyansh Saxena | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 19 | Suhani Mehta | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 20 | Hanna | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 21 | Shraddha Jaiswal | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 22 | Ravinderjeet | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 23 | Shambhavi Jha | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |

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|----|----------------------|---------------------------------|-----------------------|
| 24 | Utkarsh Yadav | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 25 | Edward | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 26 | Alma | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 27 | Alna | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 28 | Adepa | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 29 | Siddhant Mishra | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 30 | Vansh | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 31 | Anushka Negi | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 32 | Anshu Nehra | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 33 | Harshvardhan | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 34 | Tanay Agarwal | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 35 | Aravind Yadav | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 36 | Anurag Kachary | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 37 | Chinki | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 38 | Siddhant Garg | B.Sc. (H) Physics, Semester 1 | St. Stephen's College |
| 39 | Prachi Agarwal | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 40 | Tamanna Vashist | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 41 | Nelan Akanksha Topno | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 42 | Devanshu Lalwani | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 43 | Vidushi Gupta | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 44 | James Matthew | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 45 | Risa Joseph | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 46 | Ng Havanai | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 47 | Serena Denny | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 48 | Ayush George | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 49 | Savio Sibi | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 50 | Monika Yadav | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |

SOCIETY ACTIVITY REPORT 2023-24

THE CHEMISTRY SOCIETY

Lecture on "Molecules to Life"

Date: 13th October 2023

Speaker: Prof. Haridas V, Department of Chemistry, IIT Delhi.

Venue: New Chemistry Lecture Theatre (NCLT)

No. of participants: Stephen's- 85

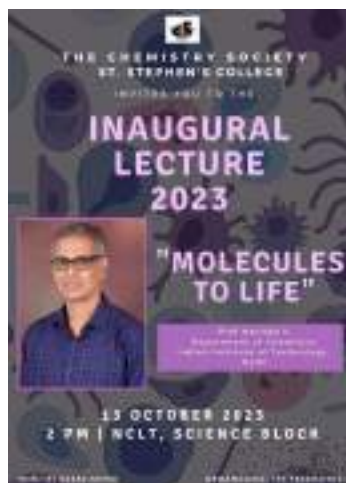
The event commenced with a warm welcome by Shreya, the Oxygen Sub-editor, followed by a prayer song by Rhea Sabarwal. The ceremonial lighting of the lamp by the speaker- Prof. Haridas V, Dr. Vibha Sharma-Head of the department, Dr. Jyotirmoy Maity-Staff advisor, Samarth Bhatnagar, and Manav Jaison, marked the official inauguration of the event. Iwin Jojo, the Events coordinator, introduced the distinguished speaker to the audience, and Debangana Gogoi, The Lecture head presented a bouquet to the speaker.

The speaker delved into questions regarding the creation and existence of life, using humor and simple explanations. The presentation explored the intriguing questions surrounding the creation and existence of life, with a focus on the chemistry of molecules that underpin life. By using simple everyday-life examples of Limonene in explaining chirality, he brought forward the Urey-Miller experiment, an experiment that marked the first proof of life. The experiment simulated the conditions of early Earth's atmosphere, consisting primarily of methane, ammonia, water vapor, and hydrogen, with electrical discharges to mimic lightning storms. Miller and Urey observed that after running the experiment for a week, various organic compounds, including amino acids—the building blocks of proteins—were produced. This suggested that the conditions on early Earth could have facilitated the formation of organic molecules necessary for life. While it didn't directly create life, it provided compelling evidence for the plausibility of abiogenesis, the natural process by which life could arise from non-living matter under the right conditions.

The speaker elucidated the concepts of autocatalysis and self-replication in peptides, accompanied by simple and effective illustrations that made these complex ideas comprehensible. He explained concepts of mutual, cross-catalytic, autocatalytic, and parasitic cross-chemical networks and explained their importance in undertaking the formation of molecules in the lab. The speaker introduced us to the world of morphogenesis and the answer leading to the origin of life. From the myriad of natural products produced by plants and microbes to the intricate structures of DNA and RNA, biological systems constantly generate an astonishing array of molecules with diverse functions and properties. The speaker talked about the beauty of creativity in the synthesis of complex molecules, showcasing the artistry inherent in biological processes. Following the lecture, an informative and interactive question-and-answer session allowed attendees to engage directly with the speaker, clarifying

doubts and deepening their understanding.

Likhith Lingampali, the publicity head, extended the vote of thanks. Samarth Bhatnagar, the President of the Chemistry Society honoured the speaker with a memento, as a token of our gratitude. The evening concluded with refreshments and interaction in the Science lawns, where attendees had the opportunity to network and engage in discussions related to the lecture.



ST. STEPHEN'S COLLEGE ATTENDANCE SHEET FOR PARTICIPANTS

Name of Society: The Chemistry Society

Title of event: Inaugural Lecture 2023

Date: 13th October 2023

| S. No. | Name | Course | College |
|--------|-----------------------|----------------------------------|-----------------------|
| 1 | Dr. Jyotirmay Maity | Faculty, Department of Chemistry | St. Stephen's College |
| 2 | Dr. Vibha Sharma | Faculty, Department of Chemistry | St. Stephen's College |
| 3 | Dr. Kavya Bhakuni | Faculty, Department of Chemistry | St. Stephen's College |
| 4 | Dr. Aditi Gupta | Faculty, Department of Chemistry | St. Stephen's College |
| 5 | Dr. Megha Munjal | Faculty, Department of Chemistry | St. Stephen's College |
| 6 | Dr. Kriti Kahyap | Faculty, Department of Chemistry | St. Stephen's College |
| 7 | Dr. Ekta Kundra Arora | Faculty, Department of Chemistry | St. Stephen's College |
| 8 | Dr. Rene Saksena | Faculty, Department of Chemistry | St. Stephen's College |
| 9 | Dr. Garima Khanna | Faculty, Department of Chemistry | St. Stephen's College |

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|----|---------------------|---------------------------------|-----------------------|
| 10 | Shambhavi Jha | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 11 | Alma Jaison | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 12 | Nebin Benny | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 13 | Edward | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 14 | Anurag Kachary | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 15 | Harshvardhan | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 16 | Yusuf | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 17 | Aravind Yadav | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 18 | Ravinderjeet | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 19 | Hanna | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 20 | Adepa | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 21 | Alna Prasanth | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 22 | Allen | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 23 | Anjali | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 24 | Aman Bisht | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 25 | Depanshu | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 26 | Dev Chaudhary | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 27 | Jobin | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 28 | Manas | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 29 | Nancy | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 30 | Nandan | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 31 | Pihu | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 32 | Priyanshu | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 33 | Shraddha Jaiswal | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 34 | Siddhanth Mishra | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 35 | Utkarsh Yadav | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 36 | Vansh | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 37 | Vinay | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 38 | Yatin | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 39 | Lingampalli Likhith | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 40 | Prashujya Garg | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 41 | Sneha Sangwan | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 42 | Ann Riya Selvi | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 43 | Shreya Rawat | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 44 | Aman Singh | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 45 | Iwin Jojo | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 46 | Arjit Shrivastav | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |

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|----|----------------------|---------------------------------|-----------------------|
| 47 | Madhavan Panchal | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 48 | Suhani Mehta | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 49 | Anushka Negi | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 50 | Vansh Kutaria | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 51 | Pratyush Kumar Dash | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 52 | Olive Masih | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 53 | Tejasi Gupta | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 54 | Anshu Nehra | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 55 | Ritik Tiwari | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 56 | Chinki | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 57 | Christymol | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 58 | Anchal | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 59 | Timothy Gladston | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 60 | Debangana Gogoi | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 61 | Samarth Bhatnagar | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 62 | Manmayi Mohapatra | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 63 | Manav Jaison | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 64 | Alen George | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 65 | Himangshu Goswami | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 66 | James Matthew | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 67 | Tamanna Vaishist | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 68 | Nelan Akanksha Topno | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 69 | Prachi Agarwal | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 70 | Shobhika Kaimwal | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 71 | Judith Pulamte | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 72 | Anita Sebastian | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 73 | Aleesha Jacob | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 74 | Amani Taxak | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 75 | Annriya Tom | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 76 | Divya Mariyam Biju | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 77 | Ayush George | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 78 | Savio Sibi | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 79 | Monika Yadav | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 80 | Ng Havanai | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 81 | Priyanka Parihar | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 82 | Vidushi Gupta | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 83 | Simran Mehlatat | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |

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|----|---------------|---------------------------------|-----------------------|
| 84 | Serena Denny | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 85 | Jeslin Thomas | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |

SOCIETY ACTIVITY REPORT 2023-24

THE CHEMISTRY SOCIETY

Lab workshop for Evening classes students in collaboration with the Social Service League

DATE: 20th October 2023

TIME: 3:30-4:30 PM

VENUE: OCL

NO. OF STUDENTS PRESENT: 13

Sneha, Likhith, Prashujya, Ann Riya, Shreya, and Iwin conducted the event, with Samarth and Timothy supervising the proceedings. The head of Evening Classes, Elizabeth Jacob, also attended the session for a short time. Rhea Shabarwal, Tanay Agrawal, and Akshita Batra, the second-year coordinators of Evening Classes, were present to facilitate the event.

During the workshop, the second-year council member demonstrated a number of experiments, including the use of Acid-Base indicators, dehydration and hydration of $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$ crystals and the turning of Lime Water milky due to Carbon Dioxide. The students actively participated, performing these experiments themselves. Through the session they also got introduced to various concepts of indicators, water of crystallisation, release of gas through reactions and the difference created due to change in pressure of air. The session concluded with an engaging activity where different colours of ink were separated using the



chromatography method. The workshop was conducted keeping all safety measures in mind with all students following the safety protocol and wearing lab coats and safety gear.

Overall, the event was a success, fostering collaboration in advancing practical knowledge and innovation between the Chemistry Society and the Evening Classes vertical of The Social Service League.

ST. STEPHEN'S COLLEGE

ATTENDANCE SHEET FOR THE PARTICIPANTS

Name of the society: The Chemistry Society

Title of the event: Lab workshop for Evening classes students in collaboration with the Social Service League

Date: 20th October 2023

| S.NO. | NAME OF THE PARTICIPANT | COURSE | COLLEGE |
|-------|-------------------------|--|-----------------------|
| 1 | Arhum | Evening classes, The Social Service League | St. Stephen's College |
| 2 | Aman | Evening classes, The Social Service League | St. Stephen's College |
| 3 | Rehan | Evening classes, The Social Service League | St. Stephen's College |
| 4 | Shankar | Evening classes, The Social Service League | St. Stephen's College |
| 5 | Khushi | Evening classes, The Social Service League | St. Stephen's College |
| 6 | Priya | Evening classes, The Social Service League | St. Stephen's College |
| 7 | Shaziya | Evening classes, The Social Service League | St. Stephen's College |
| 8 | Anjali | Evening classes, The Social Service League | St. Stephen's College |
| 9 | Aganya | Evening classes, The Social Service League | St. Stephen's College |
| 10 | Ananya | Evening classes, The Social Service League | St. Stephen's College |
| 11 | Abhay | Evening classes, The Social Service League | St. Stephen's College |
| 12 | Sonu | Evening classes, The Social Service League | St. Stephen's College |
| 13 | Shalu | Evening classes, The Social Service League | St. Stephen's College |
| 14 | Elizabeth | B.A. (Hons) history, 5th semester | St. Stephen's College |
| 15 | Akshita | B.Sc. (Hons) Chemistry, 3rd semester | St. Stephen's College |
| 16 | Tanay | B.Sc. (Hons) Chemistry, 3rd semester | St. Stephen's College |
| 17 | Rhea | B.Sc. (Hons) Chemistry, 3rd semester | St. Stephen's College |
| 18 | Samarth | B.Sc. (Hons) Chemistry, 5th semester | St. Stephen's College |

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|----|------------------|--------------------------------------|-----------------------|
| 19 | Timothy Gladston | B.Sc. (Hons) Chemistry, 5th semester | St. Stephen's College |
| 20 | Prashujya | B.Sc. (Hons) Chemistry, 3rd semester | St. Stephen's College |
| 21 | Iwin | B.Sc. (Hons) Chemistry, 3rd semester | St. Stephen's College |
| 22 | Likhith | B.Sc. (Hons) Chemistry, 3rd semester | St. Stephen's College |
| 23 | Ann Riya | B.Sc. (Hons) Chemistry, 3rd semester | St. Stephen's College |
| 24 | Shreya | B.Sc. (Hons) Chemistry, 3rd semester | St. Stephen's College |
| 25 | Aman | B.Sc. (Hons) Chemistry, 3rd semester | St. Stephen's College |

SOCIETY ACTIVITY REPORT 2023-24

THE CHEMISTRY SOCIETY

Online Lecture on “Merging Nanoscience and Green Chemistry: Towards Sustainable Catalysis”

Date: 31st October 2023

Speaker: Prof. Sourav Biswas (Assistant Professor, Department of Chemistry, SUNY Buffalo State University, USA)

No. of participants: St. Stephen's - 47, Others - 3

The session commenced with a warm welcome by Shraddha Jaiswal, followed by the introduction of the speaker by Anushka Negi.


Prof. Biswas began his presentation with an engaging exploration into the intersection of nanoscience, catalysis, and green chemistry, targeted towards sustainability. One of the focal points of the presentation was the elucidation of cutting-edge techniques such as the superoxide-assisted rapid synthesis of unique solid manganese dioxide. He provided detailed insights into the experimental processes, including X-ray diffraction (XRD), isotherm studies, and scanning electron microscopy (SEM) analyses, which facilitated a deeper comprehension of the synthesized materials. Moreover, he delved into catalytic processes, particularly highlighting selective oxidation using cobalt-based catalysts and surfactant-assisted self-assembly methods.


The presentation also extended into green chemistry approaches, notably focusing on the green oxidative deprotection of hydrazones and oximes, as well as the utilization of electrocatalysts for aerobic oxidation catalysis. Throughout the session, he emphasized the significance of interdisciplinary collaboration, drawing upon various heterogeneous catalytic reactions as references. Sir talked about the current work pursued by his group as well which included projects based on ‘Atomically dispersed Co-N₄ moieties as active sites for catalysis’ and ‘Design and Synthesis of Sustainable Electrocatalysts sourced from waste for utilization in electrochemical energy industry’. Prof. Biswas also talked about the various organizations which are involved in the production of Green nanocatalysts, and how students and professors alike can get opportunities in the field of sustainable catalysis. The subsequent Q&A session proved highly informative and interactive, with students actively participating in meaningful discussions with the speaker. This engagement further enhanced the audience's understanding of the presented topics, fostering a dynamic exchange of ideas and insights.

Prashujya Garg delivered the vote of thanks as the event came to an end. Overall, the session proved

valuable, and the students were grateful for the opportunity to learn from an expert in the field.




THE CHEMISTRY SOCIETY
ST. STEPHEN'S COLLEGE
Presents
A Lecture on the topic
**"Merging Nanoscience and Green
Chemistry: Towards Sustainable Catalysis"**
Prof. Sourav Biswas
Assistant Professor, Department of
Chemistry
Associate Director, Centre for
Integrated Studies in Nanoscience and
Nanotechnology
SUNY Buffalo State University, USA
Date: 31st October 2023
Time: 6pm
Mode: Online



A screenshot of a Zoom meeting interface. The top left shows the meeting title "Sourav Biswas (Presenting)". The main content area is split into two panes. The left pane displays a presentation slide titled "Advances in Electrochemical Energy by Design of Sustainable Electrocatalysts Sourced from Waste". The slide contains a flowchart showing the process from waste to electrocatalysts, with sub-sections for "Electrocatalysts", "Electrochemical Energy", and "Sustainable Electrocatalysts". It also includes images of waste materials, a fuel cell diagram, and portraits of three researchers: Dr. Jitendra Chandra, Dr. Emily Flynn, and Dr. Shilpa Ramesh. The right pane shows a video feed of a man with dark hair, wearing a blue shirt, looking towards the camera. Below the panes is a toolbar with icons for mute, video, chat, and other controls. At the bottom, there is a status bar with the text "4:10 PM | Lecture on Merging Nanoscience and Green Chem..."

ST. STEPHEN'S COLLEGE

ATTENDANCE SHEET FOR THE PARTICIPANTS

Name of the Society: The Chemistry Society

Title of the event: **Online Lecture on “Merging Nanoscience and Green Chemistry: Towards Sustainable Catalysis”**

Date: 31st October, 2023

| S.No. | Name | Course/Department | College |
|-------|----------------------|---------------------------------|-----------------------|
| 1 | Adepa S Anil | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 2 | Alma Jaison | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 3 | Alna Prasanth | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 4 | Anjali Chauhan | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 5 | Dev Chaudhary | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 6 | Hannay Binoy | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 7 | Ishika | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 8 | Kavyansh Saxena | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 9 | Pihu Roy | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 10 | Priyanshu | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 11 | Ravinderjeet Singh | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 12 | Ritika Khees | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 13 | Shambhavi Jha | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 14 | Shraddha Jaiswal | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 15 | Nebin Benny | B.Sc. (H) Chemistry, Semester 1 | St. Stephen's College |
| 16 | Aman Singh | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 17 | Ann Riya | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 18 | Ashley Rachel Lalu | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 19 | Iwin Jojo | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 20 | Lakshya Pratap Singh | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 21 | Likhith | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |

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|----|----------------------|-------------------------------------|---|
| 22 | Prashujya Garg | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 23 | Rhea S | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 24 | Ritik Tiwari | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 25 | Shreya Rawat | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 26 | Sneha Sangwan | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 27 | Anushka Negi | B.Sc. (H) Chemistry, Semester 3 | St. Stephen's College |
| 28 | Alen George | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 29 | Manmayi Mohopatra | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 30 | Samarth Bhatnagar | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 31 | Timothy Gladston | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 32 | Debangana Gogoi | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 33 | Hava NG | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 34 | James Mathew | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 35 | Devanshu Lalwani | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 36 | Divya Mariyam Biju | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 37 | Manav Jaison | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 38 | Nelan Akanksha Topno | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 39 | Himangshu Goswami | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 40 | Sneha Luthra | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 41 | Tamanna Vashisht | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 42 | Vidushi Gupta | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 43 | Yasha Chowadhary | B.Sc. (H) Chemistry, Semester 5 | St. Stephen's College |
| 44 | Hitakshi Bedi | B.A. (H) Economics, Semester 5 | St. Stephen's College |
| 45 | Siyah Pant | B.A. (H) Economics, Semester 5 | St. Stephen's College |
| 46 | Nickson | B.Sc.P Computer Science, Semester 5 | St. Stephen's College |
| 48 | Vinay Kumar Maurya | Department of Chemistry | Department of Chemistry, University of Delhi |
| 49 | Indrashish Dey | Department of Chemistry | University of Regesberg, Germany |
| 50 | Jonathon Grant | Department of Chemistry | Graduate Student, SUNY Buffalo University |

SOCIETY ACTIVITY REPORT 2023-24

THE CHEMISTRY SOCIETY

Online session- “Compete with confidence: Session on how to participate in Intercollege competitions ”

Date: 22nd January 2024

Time: 2:30 PM

Session led by: Samarth Bhatnagar, St. Stephen's College

No. of participants: 27

The Chemistry Society organized a highly informative session on navigating intercollege competitions based around chemistry. These competitions included explanations of Paper Presentations, Quizzes, Treasure Hunts, Photography Competitions, Exhibition and Poster Presentations. This engaging session equipped students with the knowledge and skills needed to excel in competitive competitions not only around the Delhi University circuit but applicable in International and National Conferences and Academic course based Interviews.

The speaker skillfully navigated the key areas of a paper presentation and guided the audience in crafting a compelling paper, including the importance of a strong introduction, concise discussion, impactful conclusion, and clear references. Differences between academic and non-academic presentations were clarified, helping participants choose the right format for their topic. Further explanation was provided to help chart an appropriate approach towards making poster presentations as well. The typical judging criteria used in intercollege competitions were discussed, helping participants understand how to prepare for these competitions for maximum impact. Insights were provided on unique elements that can elevate a presentation and make it stand out. Valuable advice was given on how to confidently present, through techniques like vocal variety, engaging body language, and proper understanding of the presentation and coordination between the presenters.

A lively Q&A session followed the presentation, allowing participants to seek clarification and address specific concerns. Further, a group was formulated to spread information about the various Intercollege Competitions. This interactive exchange further enriched the learning experience. The session proved to be a valuable learning experience for the participants.



ST. STEPHEN'S COLLEGE

ATTENDANCE SHEET FOR PARTICIPANTS

Name of Society: The Chemistry Society

Title of event: Online session- "Compete with confidence: Session on how to participate in Intercollege competitions "

Date: 22nd January 2024

| S.No. | Name | Course | College |
|-------|----------------|---------------------------------|-----------------------|
| 1 | Adepa | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 2 | Alma Jaison | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 3 | Alna | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 4 | Anurag Kachary | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |

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|----|-----------|---------------------------------|-----------------------|
| 5 | Dev | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 6 | Edward | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 7 | Ishika | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 8 | Kavyansh | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 9 | Pihu | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 10 | Priyanshu | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 11 | Shambhawi | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 12 | Shradhha | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 13 | Aman | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 14 | Iwin Jojo | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 15 | Lakshya | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 16 | Likhith | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 17 | Prashujya | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 18 | Rhea | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 19 | Shreya | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 20 | Sneha | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 21 | Suhani | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 22 | Samarth | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |
| 23 | Alen | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |
| 24 | Debangana | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |
| 25 | Himangshu | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |
| 26 | Manav | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |
| 27 | Nelan | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |

SOCIETY ACTIVITY REPORT 2023-24

THE CHEMISTRY SOCIETY

Inaugural Lecture of Alchemesis 2024 on the topic “Advances in Nanochemistry for Energy Conversion and Storage”

Date: 14th February 2024

Venue: Old Chemistry Lecture Theatre (OCLT)

Speaker: Prof. Sasanka Deka, Department of Chemistry, University of Delhi

No. of participants: Stephen's - 81, Others - 13

The event commenced with a warm welcome from Kavyansh Saxena, followed by the ceremonial lighting of the lamp by the speaker, Dr. Vibha Sharma-Head of the department, Dr. Jyotirmoy Maity-Staff advisor, Timothy Gladston and Himangshu Goswami, marking the official inauguration of the annual fest. Adepia Susan Anil introduced the distinguished speaker to the audience. Timothy Gladston, The Annual Fest Convener presented a bouquet to the speaker.

Prof. Deka started his lecture by stressing the importance of sustainability. Continuing on the sustainable development goals of the United Nations he delved into Hydrogen Fuel, and Hydrogen Energy, the reason for its use, and its production reactions from methane, carbon, and water electrocatalysis and photocatalysis. Following his brief explanation of the energy requirements of electrolysis, Prof. Deka moved to his work on supercapacitors. He introduced us to the field of Nanochemistry, explaining the basics of nanotechnology, their properties, synthesis, and applications in diverse fields with emphasis on catalysis. He explained topics of band gaps, interest in excitons, research of water splitting catalysts, and battery technology.

His lecture introduced us to various depictions of different structures of beautiful nanoparticles. He ended his lecture by introducing us to his research work over the last few years. Following the lecture, an informative and interactive question-and-answer session allowed attendees to engage directly with the speaker, clarifying doubts and deepening their understanding.

Jyotirmoy Maity, the Staff Advisor of the Chemistry Society honored the speaker with a memento, as a token of our gratitude. The evening concluded with refreshments and interaction in the Science lawns, where attendees had the opportunity to network and engage in discussions related to the lecture.



ST. STEPHEN'S COLLEGE

ATTENDANCE SHEET FOR PARTICIPANTS

Name of Society: The Chemistry Society

Title of event: Inaugural Lecture, Alchemesis'24

Date: 14th February 2024

| S.No. | Name of the Participant | Course/Department | College |
|-------|-------------------------|----------------------------------|-----------------------|
| 1 | Dr. Vibha Sharma | Department of Chemistry, Faculty | St. Stephen's College |
| 2 | Dr. Ekta Kundra | Department of Chemistry, Faculty | St. Stephen's College |
| 3 | Dr. Jyotirmoy Maity | Department of Chemistry, Faculty | St. Stephen's College |
| 4 | Dr. Kavya Bhakuni | Department of Chemistry, Faculty | St. Stephen's College |
| 5 | Dr. Garima Khanna | Department of Chemistry, Faculty | St. Stephen's College |
| 6 | Aleesha Jacob | B.Sc (H) Chemistry, Semester 6 | St. Stephen's College |
| 7 | Ashly Rachel Lalu | B.Sc (H) Chemistry, Semester 4 | St. Stephen's College |
| 8 | Yusuf Khan | B.Sc (H) Chemistry, Semester 2 | St. Stephen's College |
| 9 | Anushka | B.Sc (H) Chemistry, Semester 4 | St. Stephen's College |
| 10 | Devanshu Lalwani | B.Sc (H) Chemistry, Semester 6 | St. Stephen's College |
| 11 | Edward | B.Sc (H) Chemistry, Semester 2 | St. Stephen's College |
| 12 | Prachi Agarwal | B.Sc (H) Chemistry, Semester 6 | St. Stephen's College |
| 13 | Pihu Roy | B.Sc (H) Chemistry, Semester 2 | St. Stephen's College |
| 14 | RITIK TIWARI | B.Sc (H) Chemistry, Semester 4 | St. Stephen's College |
| 15 | Chinki Baniwal | B.Sc (H) Chemistry, Semester 4 | St. Stephen's College |

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|----|--------------------|--------------------------------|-----------------------|
| 16 | Rhea | B.Sc (H) Chemistry, Semester 4 | St. Stephen's College |
| 17 | Suhani Mehta | B.Sc (H) Chemistry, Semester 4 | St. Stephen's College |
| 18 | Nebin Benny | B.Sc (H) Chemistry, Semester 2 | St. Stephen's College |
| 19 | Manas Sullere | B.Sc (H) Chemistry, Semester 2 | St. Stephen's College |
| 20 | Ravinderjeet Singh | B.Sc (H) Chemistry, Semester 2 | St. Stephen's College |
| 21 | Divya Mariyam Biju | B.Sc (H) Chemistry, Semester 6 | St. Stephen's College |
| 22 | Aleena Kunjumon | B.Sc (H) Chemistry, Semester 6 | St. Stephen's College |
| 23 | Payal | B.Sc (H) Chemistry, Semester 4 | St. Stephen's College |
| 24 | James | B.Sc (H) Chemistry, Semester 6 | St. Stephen's College |
| 25 | Shreya | B.Sc (H) Chemistry, Semester 4 | St. Stephen's College |
| 26 | Tamanna | B.Sc (H) Chemistry, Semester 6 | St. Stephen's College |
| 27 | Prashujya | B.Sc (H) Chemistry, Semester 4 | St. Stephen's College |
| 28 | Likhith | B.Sc (H) Chemistry, Semester 4 | St. Stephen's College |
| 29 | Ann Riya Selvi | B.Sc (H) Chemistry, Semester 4 | St. Stephen's College |
| 30 | Sneha | B.Sc (H) Chemistry, Semester 4 | St. Stephen's College |
| 31 | Aman | B.Sc (H) Chemistry, Semester 4 | St. Stephen's College |
| 32 | Iwin | B.Sc (H) Chemistry, Semester 4 | St. Stephen's College |
| 33 | Manav | B.Sc (H) Chemistry, Semester 6 | St. Stephen's College |
| 34 | Samarth | B.Sc (H) Chemistry, Semester 6 | St. Stephen's College |
| 35 | Alen | B.Sc (H) Chemistry, Semester 6 | St. Stephen's College |
| 36 | Timothy | B.Sc (H) Chemistry, Semester 6 | St. Stephen's College |
| 37 | Himangshu | B.Sc (H) Chemistry, Semester 6 | St. Stephen's College |
| 38 | Manmayi | B.Sc (H) Chemistry, Semester 6 | St. Stephen's College |
| 39 | Debangana | B.Sc (H) Chemistry, Semester 6 | St. Stephen's College |
| 40 | Anurag | B.Sc (H) Chemistry, Semester 2 | St. Stephen's College |
| 41 | Diya Susan | B.Sc Programme , Semester 4 | St. Stephen's College |
| 42 | Kaviya | B.Sc Programme , Semester 4 | St. Stephen's College |
| 43 | Rachit | B.A. (H) English, Semester 4 | St. Stephen's College |
| 44 | Shraddha | B.Sc (H) Chemistry, Semester 2 | St. Stephen's College |
| 45 | Tanay | B.Sc (H) Chemistry, Semester 4 | St. Stephen's College |
| 46 | Aarushi | B.Sc (H) Chemistry, Semester 2 | St. Stephen's College |
| 47 | Anchal | B.Sc (H) Chemistry, Semester 4 | St. Stephen's College |

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|----|---------------------|--------------------------------|-----------------------|
| 48 | Serena | B.Sc (H) Chemistry, Semester 6 | St. Stephen's College |
| 49 | Utkarsh | B.Sc (H) Chemistry, Semester 2 | St. Stephen's College |
| 50 | Yatin | B.Sc (H) Chemistry, Semester 2 | St. Stephen's College |
| 51 | Yusuf Khan | B.Sc (H) Chemistry, Semester 2 | St. Stephen's College |
| 52 | Adepa | B.Sc (H) Chemistry, Semester 2 | St. Stephen's College |
| 53 | Priyanka | B.Sc (H) Chemistry, Semester 6 | St. Stephen's College |
| 54 | Faraz | B.A. (H) English, Semester 4 | St. Stephen's College |
| 55 | NG Havanai | B.Sc (H) Chemistry, Semester 6 | St. Stephen's College |
| 56 | Kavyansh Saxena | B.Sc (H) Chemistry, Semester 2 | St. Stephen's College |
| 57 | Tejasi Gupta | B.Sc (H) Chemistry, Semester 4 | St. Stephen's College |
| 58 | Kavyansh Saxena | B.Sc (H) Chemistry, Semester 2 | St. Stephen's College |
| 59 | Anna K B | B.Sc (H) Chemistry, Semester 4 | St. Stephen's College |
| 60 | Annriya Tom | B.Sc (H) Chemistry, Semester 6 | St. Stephen's College |
| 61 | Bhumi Singh | B.Sc (H) Chemistry, Semester 2 | St. Stephen's College |
| 62 | VANSH KUMAR | B.Sc (H) Chemistry, Semester 2 | St. Stephen's College |
| 63 | Anshu | B.Sc (H) Chemistry, Semester 4 | St. Stephen's College |
| 64 | Aman bisht | B.Sc (H) Chemistry, Semester 2 | St. Stephen's College |
| 65 | Ayush George | B.Sc (H) Chemistry, Semester 6 | St. Stephen's College |
| 66 | Shambhawi Jha | B.Sc (H) Chemistry, Semester 2 | St. Stephen's College |
| 67 | Nancy | B.Sc (H) Chemistry, Semester 2 | St. Stephen's College |
| 68 | Alna C Prasanth | B.Sc (H) Chemistry, Semester 2 | St. Stephen's College |
| 69 | Vansh Kathuria | B.Sc (H) Chemistry, Semester 2 | St. Stephen's College |
| 70 | Ritika khess | B.Sc (H) Chemistry, Semester 2 | St. Stephen's College |
| 71 | Ishika | B.Sc (H) Chemistry, Semester 2 | St. Stephen's College |
| 72 | Alma Jaison | B.Sc (H) Chemistry, Semester 2 | St. Stephen's College |
| 73 | Anjali | B.Sc (H) Chemistry, Semester 2 | St. Stephen's College |
| 74 | Olive Masih | B.Sc (H) Chemistry, Semester 4 | St. Stephen's College |
| 75 | Pratyush Kumar Dash | B.Sc (H) Chemistry, Semester 4 | St. Stephen's College |
| 76 | Evelyn Marie | B.Sc (H) Chemistry, Semester 6 | St. Stephen's College |
| 77 | Judith | B.Sc (H) Chemistry, Semester 6 | St. Stephen's College |
| 78 | Joshua James | B.Sc (H) Chemistry, Semester 6 | St. Stephen's College |
| 79 | Hanna Binoy | B.Sc (H) Chemistry, Semester 2 | St. Stephen's College |

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|----|----------------------|--------------------------------------|-----------------------|
| 80 | LAKSHYA PRATAP SINGH | B.Sc (H) Chemistry, Semester 2 | St. Stephen's College |
| 81 | Arjit Shrivastava | B.Sc (H) Chemistry, Semester 2 | St. Stephen's College |
| 82 | Javed | Department of Chemistry | University of Delhi |
| 83 | Abhinav | Department of Chemistry | University of Delhi |
| 84 | Alip Hazarika | Department of Chemistry | University of Delhi |
| 85 | Bidyut Chutia | Department of Chemistry | University of Delhi |
| 86 | AMATAL AHMED | Department of Chemistry | University of Delhi |
| 87 | Roshani | Department of Chemistry | University of Delhi |
| 88 | Saloni | Department of Chemistry | University of Delhi |
| 89 | Aditya Raj Jain | Department of Chemistry, Semester- 4 | IIT, Delhi |
| 90 | Sneha Elizabeth | B.Sc (H) Chemistry, Semester 6 | Miranda House |
| 91 | Nandana Narayanan | B.Sc (H) Chemistry, Semester 6 | Miranda House |
| 92 | Nandana Nambiar | B.Sc (H) Chemistry, Semester 2 | Miranda House |
| 93 | Sneha P V | B.Sc (H) Chemistry, Semester 2 | Miranda House |
| 94 | Nitilka Thakur | B.Sc (H) Chemistry, Semester 2 | Miranda House |

SOCIETY ACTIVITY REPORT 2023-24

THE CHEMISTRY SOCIETY

TREASURE HUNT, ALCHEMESIS 2024

Date: 14th February 2024

Venue: SCR Lawns

No. of participants: 28

The Chemistry Society organised an exhilarating treasure hunt event on 14th February 2024, as part of its annual fest, Alchemesis. Following the inaugural lecture, participants gathered at SCR Lawns to embark on a thrilling journey of discovery and exploration. The treasure hunt, strategically planned across various locations within the college premises, including the Science Dhaba, Chapel, and OCL, offered participants an opportunity to engage in a series of exciting challenges. Each clue, meticulously designed with chemistry-related questions, aimed to test participants' knowledge while fostering teamwork and critical thinking.

In addition to verbal challenges, visual questions added an extra layer of intrigue and excitement to the hunt, pushing participants to apply their observational skills and scientific knowledge. Amidst fierce competition and a race against time, teams navigated through each clue with determination and enthusiasm. Ultimately, Aman and Tanay emerged victorious, securing the first position, while Likhith and Prashujya showcased their chemistry prowess to clinch the second position.

Some of the questions were-

1. I am the alchemist's dream, transforming one essence into other, not through magic, but by stacking building blocks in a game of molecular Legos, chaining them together to form a 3-D artwork. What process am I?
2. Analysing the light emitted from celestial objects reveals their composition. The presence of a specific element in distant stars helps astronomers understand their history and the process of element formation in the universe. Which element acts as this crucial "fingerprint"?

Overall, the treasure hunt event organised by the Chemistry Society proved to be a resounding success, inspiring participants to delve deeper into the fascinating world of chemistry while enjoying a thrilling adventure.



ST. STEPHEN'S COLLEGE ATTENDANCE SHEET FOR THE PARTICIPANTS

Name of the Society: The Chemistry Society

Title of the event: Treasure Hunt, Alchemesis 2024

Date: 14th February 2024

| S. No | Name of Participant | Course/ Department | College |
|-------|---------------------|---------------------------------|-----------------------|
| 1 | Yusuf | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 2 | Aditanshu | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 3 | Aditanshu | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 4 | Priyanshu | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 5 | Shraddha Jaiswal | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 6 | Ravinderjeet Singh | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 7 | Aman Singh | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 8 | Shambhawi Jha | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 9 | Annu | B.A. (H) Sanskrit, Semester 4 | St. Stephen's College |
| 10 | Yatin Diwedi | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 11 | Bhumi | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 12 | Ritika | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 13 | Lingampalli Likhith | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 14 | Nitesh | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |
| 15 | Kavyansh Saxena | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 16 | Calvin | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 17 | Siddhant Chaudhary | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 18 | Anjali Chauhan | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 19 | Aarushi Chatterjee | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 20 | Tanay Agrawal | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |

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|----|----------------|---------------------------------|-----------------------|
| 21 | Kavita | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 22 | Ishika | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 23 | Pihu | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 24 | Anurag | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 25 | Prashujya Garg | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 26 | Ritika | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 27 | Shreya Rawat | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 28 | Ritik Tiwari | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |

SOCIETY ACTIVITY REPORT 2023-24

THE CHEMISTRY SOCIETY

Crystal Growing Competition, Alchemesis 2024

Date: 15th February 2024

Venue: New Chemistry Lab (NCL)

No. of participants: 53

The crystal growth competition was organized as a part of the Annual Fest of The Chemistry Society - Alchemesis for students who were not majoring in Chemistry, aiming to introduce them to the fascinating realm of chemicals and crystal formation. A total of 40 participants eagerly joined the competition and were divided into two groups. The first group worked on Potash Alum, a white crystal, while the second group tackled Tris(oxalate) Ferrate, a green crystal. Manmayi Mohapatra, General Secretary, and Prashujya Garg, Treasurer along with the team of volunteers provided participants with instructions, materials, and necessary safety precautions. The Procedure followed for the preparation of Potash Alum was to dissolve 4.0 g of Aluminum sulphate and potassium sulphate in about half test tube distilled water in two separate beakers and then gently mixing the two solutions followed by heating the mixture over water bath for 5-10 mins till its volume reduces to half. On the other hand, the procedure followed for Trisoxalato Ferrate was to dissolve 3.5 g of potassium oxalate in about 10 ml of water while gently heating the beaker over wire gauze, followed by adding 5 ml of ferric chloride solution and then cooling it in a ice bath to obtain the crystals.

The experience allowed them to closely observe the Chemistry Lab, and some participants even enjoyed the novelty of wearing lab coats. Dr. Violet Rajeswari Macwan and Dr. Kriti Kashyap from the Department of Chemistry at St. Stephen's College served as judges. Tejaswani Garg, 1st Year B.A. (H) Economics student, and Meera Arora, 2nd Year B.A. (H) Economics student, were declared the winner and runner-up for Potash Alum. For Tris(Oxalate) Ferrate, Vikas Choyal, 3rd year B.A. (H) Sanskrit student, and Sameer Malik, 2nd Year B.A. (H) History student, emerged as the winner and runner-up respectively.

In summary, the Crystal Growing Competition successfully achieved its goal of providing non-chemistry students with an opportunity to explore the captivating world of Chemistry and its brilliance and left a lasting impression on the participants.



ST. STEPHEN'S COLLEGE
ATTENDANCE SHEET FOR THE PARTICIPANTS

Name of the Society: The Chemistry Society

Title of the event: Crystal Growing Competition, Alchemesis 2024

Date: 15th February 2024

| S.No | Name of the participant | Course/Department | College |
|------|-------------------------|---|-----------------------|
| 1 | Aduvet Raizada | B.Sc (H) Mathematics, Semester 2 | St. Stephen's College |
| 2 | Anayana Deborah Baruah | B.A. (H) English, Semester 2 | St. Stephen's College |
| 3 | Anna B Varghese | B.A. Programme, Semester 2 | St. Stephen's College |
| 4 | Apoorva | B.Sc (H) Physics, Semester 2 | St. Stephen's College |
| 5 | Chirmi Awungshi | B.A. (H) English, Semester 2 | St. Stephen's College |
| 6 | Esther | B.A. (H) English, Semester 2 | St. Stephen's College |
| 7 | Kamakshi | B.A. (H) Economics, Semester 2 | St. Stephen's College |
| 8 | Pratham Gupta | B.Sc (H) Mathematics, Semester 2 | St. Stephen's College |
| 9 | Samiha Bellani | B.A. (H) English, Semester 2 | St. Stephen's College |
| 10 | Tejaswani | B.A. (H) Economics, Semester 2 | St. Stephen's College |
| 11 | Thasneem Shajahan | B.A. Programme, Semester 2 | St. Stephen's College |
| 12 | Vandana Nicholas | B.A. (H) English, Semester 2 | St. Stephen's College |
| 13 | Vansh Gupta | B.Sc Programme with Computer Science, Semester 2 | St. Stephen's College |
| 14 | Vansh Agarwal | B.Sc (H) Mathematics, Semester 2 | St. Stephen's College |
| 15 | Neha S Paul | B.A. Programme, Semester 2 | St. Stephen's College |
| 16 | Aastha Chhetri | B.A. Programme, Semester 4 | St. Stephen's College |
| 17 | Annu | B.A. Programme, Semester 4 | St. Stephen's College |
| 18 | Anshika Yadav | B.A. Programme, Semester 4 | St. Stephen's College |
| 19 | Ayush Kothari | B.Sc (H) Mathematics, Semester 4 | St. Stephen's College |

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|----|---------------------|---------------------------------|-----------------------|
| 20 | Christy Biju | B.A. Programme, Semester 4 | St. Stephen's College |
| 21 | Faraz | B.A. (H) English, Semester 4 | St. Stephen's College |
| 22 | Meera Arora | B.A. (H) Economics, Semester 4 | St. Stephen's College |
| 23 | sameer malik | B.A. (H) History, Semester 4 | St. Stephen's College |
| 24 | Sampada Bhiwania | B.A. (H) Economics, Semester 4 | St. Stephen's College |
| 25 | Soniya | B.A. (H) History, Semester 4 | St. Stephen's College |
| 26 | Sukriti Arya | B.A. (H) Sanskrit, Semester 4 | St. Stephen's College |
| 27 | Venisha Mascarenhas | B.Sc (H) Physics, Semester 4 | St. Stephen's College |
| 28 | Abiya Biju Thomas | B.A. Programme, Semester 6 | St. Stephen's College |
| 29 | Angel Alka Sanga | B.A. (H) Philosophy, Semester 6 | St. Stephen's College |
| 30 | Joanna Chhavi | B.A. (H) English, Semester 6 | St. Stephen's College |
| 31 | Pavithra | B.A. (H) Sanskrit, Semester 6 | St. Stephen's College |
| 32 | Rupali | B.A. (H) Economics, Semester 6 | St. Stephen's College |
| 33 | Sana Pushkar Rawat | B.A. (H) Sanskrit, Semester 6 | St. Stephen's College |
| 34 | Satvik | B.A. (H) Sanskrit, Semester 6 | St. Stephen's College |
| 35 | Shinjini | B.A. (H) Sanskrit, Semester 6 | St. Stephen's College |
| 36 | smriti | B.A. (H) Economics, Semester 6 | St. Stephen's College |
| 37 | Soham | B.A. (H) Sanskrit, Semester 6 | St. Stephen's College |
| 38 | Thumloy | B.A. (H) Economics, Semester 6 | St. Stephen's College |
| 39 | Vanshika Sharma | B.A. (H) History, Semester 6 | St. Stephen's College |
| 40 | Vikas | B.A. (H) Sanskrit, Semester 6 | St. Stephen's College |
| 41 | Prashujya Garg | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 42 | Manmayi Mohapatra | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |
| 43 | Iwin Jojo | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 44 | Ann Riya Selvi | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 45 | Sneha Sangwan | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 46 | Shreya Rawat | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 47 | Alen Albert George | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |

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|----|-------------------|---------------------------------|-----------------------|
| 48 | Samarth Bhatnagar | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |
| 49 | Debangana Gogoi | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |
| 50 | Alma Jaison | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 51 | Alna C Pasant | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 52 | Adepa Susan Anil | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 53 | Nadan Guleria | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |

SOCIETY ACTIVITY REPORT 2023-24

THE CHEMISTRY SOCIETY

Dr. C.J. Raphael Memorial Debate, Alchemesis 2024

Date: 14th- 16th February 2024

Venue: NCLT and OPLT, Science Block

No. of participants: Stephen's - 5, other colleges - 12

The Inaugural Dr. C.J. Raphael Memorial Debate Tournament, Alchemesis 2024, was organized by the Chemistry Society of St. Stephen's College. The competition featured three rounds: an online preliminary round, offline semi-finals, and the grand finals. Nine teams, each consisting of two participants from various university departments, competed in the event.

The offline rounds were held at the New Chemistry Lecture Theatre (NCLT) and the Old Physics Lecture Theatre (OPLT). Debate topics included "This house proposes the prohibition of chemical food additives utilized for flavor enhancement, recognizing their detrimental impact on public health," "This house supports the Genetic modification of crops to address the feeding needs of the growing global population prioritizing necessity over health concerns," and "This house supports banning genetic engineering techniques like CRISPR owing to their ethical concerns and implications."

The team Gaurav from St. Stephen's College, comprising Gaurav Kishore and Arptih, emerged victorious. The second prize went to the team Anasab, represented by Anasab Atiq and Some Dutta Chakraborty, from Miranda House.

The Dr. C.J. Raphael Memorial Debate Tournament provided students with an opportunity to demonstrate their debating skills and engage in critical discussions on the nexus of science and society. Novice debaters received valuable feedback from judges to enhance their abilities. The Chemistry Society expressed its gratitude to all who contributed to the successful organization and execution of the event. Participants greatly enjoyed the tournament and left with a deeper understanding of the topics discussed.



ST. STEPHEN'S COLLEGE
ATTENDANCE SHEET FOR PARTICIPANTS

Name of Society: The Chemistry Society

Title of event: Dr. C.J. Raphael Memorial Debate Tournament, Alchemesis 2024

Date: 14th - 16th February 2024

| S.No | Name of Participants | Course/Department | College |
|-------------|-----------------------------|---|-----------------------|
| 1 | Kavya Sanjay | B.A. (H) Economics, Semester 4 | St. Stephen's College |
| 2 | Bhumi Singh | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 3 | Gaurav Kishore | B.Sc. Programme with Chemistry, Semester 4 | St. Stephen's College |
| 4 | Arpith | B.Sc. (H) Physics, Semester 4 | St. Stephen's College |
| 5 | Aarushi Chatterjee | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 6 | Jasleen Kaur | B.A. (H) English , Semester 6 | LSR |
| 7 | Anasab Atiq | B.Sc. (H) Chemistry, Semester 4 | Miranda House |
| 8 | Somedutta Chakraborty | B.A. (H) English, Semester 4 | Miranda House |
| 9 | Jaiveer malik | B.Sc. (H) Chemistry, Semester 4 | IIT Delhi |
| 10 | Kirti Kaushal | B.Sc. (H) Chemistry, Semester 4 | Miranda House |
| 11 | Bhanu Sharma | B.A. (H) Applied Psychology, Semester 2 | Hansraj College |
| 12 | Gitesh Karki | B.Sc. (H) Chemistry, Semester 2 | Kirori Mal College |
| 13 | Aditya Raj Jain | B.A. Economics, Semester 4 | B.R. Ambedkar College |
| 14 | Adarsh Jha | CSAI, Semester 4 | IIT Delhi |
| 15 | Nandini | B.Sc. (H) Chemistry, Semester 4 | Miranda House |
| 16 | Prakhar Pandey | B.A. (H) Applied Psychology, Semester 4 | Hansraj College |
| 17 | Aaditya Kumar Rai | B.Sc. (H) Chemistry, Semester 4 | Kirori Mal College |

SOCIETY ACTIVITY REPORT 2023-24

THE CHEMISTRY SOCIETY

On-Spot Photography Competition, Alchemesis 2024

Date: 16th February 2024

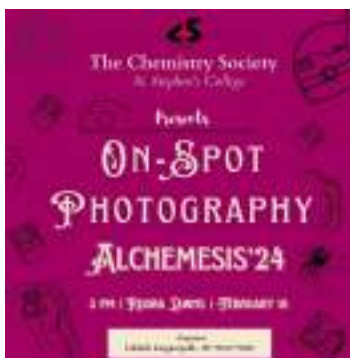
Venue: Rudra lawns

No.of participants - 26

The Chemistry Society orchestrated an on-spot photography competition as part of Alchemesis, the annual fest. The event attracted participants not only from within the college but also from outside, resulting in a diverse and competitive atmosphere.

The Theme of the photography competition was “Timeless Architecture”. The inclusive nature of the competition was evident as students from various disciplines, as well as external participants showcased their photography skills. The competition saw an impressive array of entries, reflecting the versatility and creativity of the participants. From captivating portraits to striking landscapes, the submissions showcased a diverse range of photographic techniques and perspectives. The event served as a platform for budding photographers to express themselves and share their unique vision. Judging criteria included composition, creativity, technical proficiency, and adherence to the theme, ensuring a fair and comprehensive assessment. The judges for the competition were Nickson Yesudass, Vice President, Photography Society, St. Stephen’s College and Nohin, Council Member, Photography Society, St. Stephen’s College Saurav Jyoti Das, Hansraj College and Aman Kumar, Department of Germanic and Romance studies were declared the winner and the Runner-up respectively.

In conclusion, the on-spot photography competition organized by the Chemistry Society at Alchemesis 2024 was a resounding success. Its inclusivity, meticulous organization, diverse entries, fair judging process, and recognition of talent collectively contributed to making it a standout event during the annual fest.



ST. STEPHEN'S COLLEGE
ATTENDANCE SHEET FOR THE PARTICIPANTS

Name of the Society: The Chemistry Society

Title of the event: On-Spot Photography, Alchemesis 2024

Date: 16th February 2024

| S.No | Name of the participants | Course/Department | College |
|------|--------------------------|---|------------------------------|
| 1 | Nandan Gueria | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 2 | Debangana | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |
| 3 | Yusuf Khan | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 4 | Kimi | B.A. (H) Philosophy, Semester 4 | St. Stephen's College |
| 5 | Gilbert | B.A. (H) History, Semester 2 | St. Stephen's College |
| 6 | Manasvi | B.Sc. Programme with Computer Science, Semester 4 | St. Stephen's College |
| 7 | Joel | B.Sc. Programme with Computer Science, Semester 4 | St. Stephen's College |
| 8 | Christy Mol | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 9 | Priyanshu Sonkar | B.A. (H) Economics, Semester 2 | St. Stephen's College |
| 10 | Aarushi Chatterjee | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 11 | Jasmin Babu | B.Sc. (H) Physics, Semester 4 | St. Stephen's College |
| 12 | Steny Sajan | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 13 | Viswanath Mali | B.Sc. (H) Physics, Semester 6 | St. Stephen's College |
| 14 | Giridhar S | B.Com (H), Semester 4 | Shri Ram College of Commerce |
| 15 | Nitish Kumar | B.Com (H), Semester 4 | Shri Ram College of Commerce |
| 16 | Aadith | B.A. (H) Economics, Semester 4 | Shri Ram College of Commerce |
| 17 | Mayank Raj | B.A. (H) Economics, Semester 4 | Shri Ram College of Commerce |
| 18 | Chandeep Gogoi | B.A. (H) English, Semester 6 | SGTB Khalsa College |
| 19 | Akshat Kumar | B.Sc. (H) Chemistry, Semester 2 | Swami Shraddhanand College |

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|----|------------------|---------------------------------|--|
| 20 | Khushboo Saugat | B.Sc. (H) Chemistry, Semester 4 | Janki Devi memorial college |
| 21 | Payal Raaj | B.A. (H) English, Semester 4 | Indraprastha college for women |
| 22 | Sourav Jyoti Das | B.Sc. (H) Chemistry, Semester 4 | Hansraj College |
| 23 | Urvashi | B.Sc. (H) Chemistry, Semester 4 | Gargi College |
| 24 | Aman Kumar | B.A. Programme | Department of Germanic and romance studies |
| 25 | Akansha Gupta | B.Sc. (H) Chemistry, Semester 4 | Daulat Ram College |
| 26 | Jiya Kalwani | B.Sc. (H) Chemistry, Semester 4 | Daulat Ram College |

SOCIETY ACTIVITY REPORT 2023-24

THE CHEMISTRY SOCIETY

CHEMATHON- Science Quiz, Alchemesis 2024

Date: 16th February 2024

Venue: OCLT, Science Block

No. of participants: Stephen's- 27, Other Colleges- 28

Chemathon- Science Quiz conducted as a part of the Annual Fest, unfolded in two phases, providing a platform for students to showcase their knowledge in science. The preliminary round featured an elimination quiz, the success of which was based on the teams' accuracy and the swiftness with which they provided answers. Some of the questions from this round were:

1. What is the name given to the process, discovered by Goodyear, of adding sulphur to heated rubber?
2. Which Scientist was given a nickname after the Greek Titan who is believed to have given humans fire?
3. Four like charges are placed at the corners of a square. What is the Electric Field intensity at the centre of the square?

The top-performing eight teams from this phase were able to advance to the final round.

The finals consisted of four riveting rounds: General Chemistry Trivia, a Name reactions round, a Picture round, and a Rapid-fire round. Some of the questions in the final rounds were:

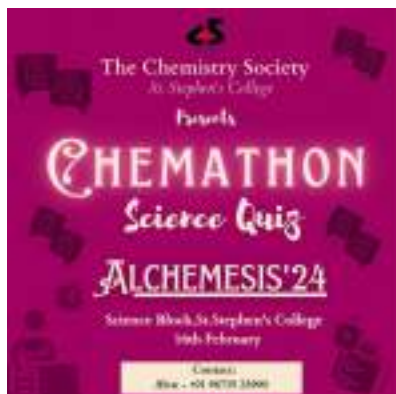
1. Chemical formula of the pigment Prussian blue
2. Element X wasn't truly discovered until the 1930s; as it was eventually named and was made artificially (in a cyclotron). Identify X.
3. X and Y elements were named after a Greek mythological father-daughter duo respectively. Identify X and Y
4. What compound is a common component of air pollution, but is also essential to protect life on earth?

Each round presented unique challenges and was a test of the participants' depth of knowledge and quick thinking. The cumulative scores of all rounds determined the final standings, ensuring a nail-biting competition that held the participants' attention till the last question.

Prachi Agarwal and Tamanna Vashist, from St. Stephen's College, emerged as the champions of the competition. Sahil Xavier Joseph and Pratyush Kumar Dash, from St. Stephen's College were the runners-up.

In conclusion, Chemathon provided an enriching experience that brought aspiring chemists together, fostered a sense of community, and celebrated the pursuit of knowledge in the captivating world of chemistry. The event left a lasting impression on the participants, inspiring

them to continue their exploration of the wonders of chemistry.



ST. STEPHEN'S COLLEGE ATTENDANCE SHEET FOR THE PARTICIPANTS

Name of the Society: The Chemistry Society

Title of the event: CHEMATHON- Science Quiz, Alchemesis 2024

Date: 16th February 2024

| S.No | Name of the participant | Course/Department | College |
|------|-------------------------|--------------------------------|-----------------------|
| 01 | Ravinderjeet Singh | B.Sc (H) Chemistry, Semester 2 | St.Stephen's College |
| 02 | Priyanshu | B.Sc (H) Chemistry, Semester 2 | St. Stephen's College |
| 03 | Aarushi Chatterjee | B.Sc (H) Chemistry, Semester 2 | St. Stephen's College |
| 04 | Pihu Roy | B.Sc (H) Chemistry, Semester 2 | St. Stephen's College |
| 05 | Kavyansh Saxena | B.Sc (H) Chemistry, Semester 2 | St. Stephen's College |
| 06 | Bhumi Singh | B.Sc (H) Chemistry, Semester 2 | St. Stephen's College |
| 07 | Nancy Malik | B.Sc (H) Chemistry, Semester 2 | St. Stephen's College |
| 08 | Utkarsh Yadav | B.Sc (H) Chemistry, Semester 2 | St. Stephen's College |
| 09 | Yusuf khan | B.Sc (H) Chemistry, Semester 2 | St. Stephen's College |
| 10 | Shraddha Jaiswal | B.Sc (H) Chemistry, Semester 2 | St. Stephen's College |
| 11 | Yatin Diwedi | B.Sc (H) Chemistry, Semester 2 | St. Stephen's College |

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|----|---------------------|--------------------------------|-----------------------|
| 12 | Siddhant | B.Sc Programme, Semester 2 | St. Stephen's College |
| 13 | Suhani Mehta | B.Sc (H) Chemistry, Semester 4 | St. Stephen's College |
| 14 | Sahil Joseph | B.Sc (H) Chemistry, Semester 4 | St. Stephen's College |
| 15 | CHRISTYMOL M A | B.Sc (H) Chemistry, Semester 4 | St. Stephen's College |
| 16 | Pratyush Kumar Dash | B.Sc (H) Chemistry, Semester 4 | St. Stephen's College |
| 17 | Akshita Batra | B.Sc (H) Chemistry, Semester 4 | St. Stephen's College |
| 18 | Himalaya Choudhary | B.Sc (H) Physics, Semester 4 | St. Stephen's College |
| 19 | DIDAR SINGH | B.Sc (H) Physics, Semester 4 | St. Stephen's College |
| 20 | Abhinav Kataria | B.Sc (H) Physics, Semester 4 | St. Stephen's College |
| 21 | JASMIN BABU | B.Sc (H) Physics, Semester 4 | St. Stephen's College |
| 22 | Tripti Mittal | B.Sc (H) Maths, Semester 4 | St. Stephen's college |
| 23 | Garvit Kathuria | B.Sc (H) Maths, Semester 4 | St. Stephen's college |
| 24 | Prachi Agarwal | B.Sc (H) Chemistry, Semester 6 | St. Stephen's College |
| 25 | Monika | B.Sc (H) Chemistry, Semester 6 | St. Stephen's College |
| 26 | Tamanna vashisht | B.Sc (H) Chemistry, Semester 6 | St. Stephen's college |
| 27 | NG Havanai | B.Sc (H) Chemistry, Semester 6 | St. Stephen's College |
| 28 | Janaki C Joby | B.Sc (H) Physics, Semester 2 | Hansraj college |
| 29 | Jaiveer malik | B.Sc (H) Chemistry, Semester 4 | Hansraj college |
| 30 | Prateek Chaurasia | B.Sc (H) Chemistry, Semester 4 | Hansraj College |
| 31 | Manisha Tomar | B.Sc (H) Chemistry, Semester 6 | Hansraj College |
| 32 | Mahi Choudhary | B.Sc Programme, Semester 2 | Miranda House |
| 33 | Arunima Singh | B.Sc (H) Chemistry, Semester 2 | Miranda House |
| 34 | Neha | B.Sc (H) Chemistry, Semester 2 | Miranda House |
| 35 | Tejaswita Dalal | B.A Programme, Semester 2 | Miranda House |
| 36 | JAYANT RAWAT | B.Sc (H) Chemistry, Semester 2 | Miranda House |
| 37 | Khushi | B.A Programme, Semester 2 | Miranda House |
| 38 | Shruti Karthik | B.Sc (H) Chemistry, Semester 2 | Miranda House |

| | | | |
|----|-------------------|--------------------------------|---|
| 39 | Minaxi Choudhary | B.Sc (H) Chemistry, Semester 2 | Miranda House |
| 40 | Divyani | B.A Programme, Semester 2 | Miranda House |
| 41 | Aanjoleena | B.A Programme, Semester 2 | Miranda House |
| 42 | Nandinii Biswal | B.Sc (H) Chemistry, Semester 2 | Miranda House |
| 43 | Riya | B.Sc (H) Chemistry, Semester 4 | Miranda House |
| 44 | Muskan | B.Sc (H) Chemistry, Semester 4 | Miranda House |
| 45 | Prateek Chaurasia | B.Sc (H) Chemistry, Semester 4 | Miranda House |
| 46 | Molishree Mittal | B.Sc (H) Chemistry, Semester 4 | Miranda House |
| 47 | Preeti | B.Sc (H) Chemistry, Semester 4 | Miranda House |
| 48 | Tripti Raj | B.Sc (H) Chemistry, Semester 4 | Miranda House |
| 49 | Aditya Raj Jain | B.Sc Programme, Semester 4 | IITD |
| 50 | Adithya Sanker P | B.Sc (H) Chemistry, Semester 4 | Ramjas College |
| 51 | MANNE PARVATHI | B.Sc (H) Chemistry, Semester 2 | Shaheed Rajguru College of Applied Sciences for Women |
| 52 | Sanskriti Sharma | B.Sc (H) Chemistry, Semester 6 | Shaheed Rajguru College of Applied Sciences for Women |
| 53 | Giridhar S | B.A (H) Economics, Semester 4 | SRCC |
| 54 | Ekta Pandey | B.Sc (H) Chemistry, Semester 4 | Swaami Shraddhaand |
| 55 | Deepak Gupta | B.Sc (H) Chemistry, Semester 4 | Swaami Shraddhaand |

SOCIETY ACTIVITY REPORT 2023-24

THE CHEMISTRY SOCIETY

Concluding Lecture of Alchemesis 2024 on "Facile Approaches to Enhance the Quality of Anode Materials for High-Performance Sodium and Lithium-Ion Batteries"

Date: 16th February 2024

Venue: OCLT

Speaker: Dr. Alok Kumar Rai, Department of Chemistry, University of Delhi.

No. of participants: 50 (St. Stephen's College-43, Other Colleges-7)

The event commenced with a warm welcome by Ritika Khess and Alma Jaison, followed by the ceremonial lighting of the lamp by the speaker, Dr. Vibha Sharma-Head of the department, Dr. Jyotirmoy Maity-Staff advisor, Samarth Bhatnagar, and Manav Jaison. The speaker was then introduced by the anchors and invited to deliver the lecture.

The lecture started with a comprehensive exploration of the fundamental workings of batteries, and the distinctions between primary and secondary batteries. The speaker elucidated upon their differing storage capacities, energy efficiencies, and the pertinent issues surrounding these essential energy storage devices.

A significant portion of the discourse was dedicated to lithium-ion batteries, their advantages, and their applications. In particular, the focus was directed towards the pivotal role of anode materials in enhancing battery performance. This included an in-depth examination of the desirable characteristics sought in these materials, emphasizing their criticality in the storage mechanisms crucial to battery function.

The utilization of nanotechnology to engineer suitable anode materials for the various techniques employed, ranging from surface coatings utilizing carbon to the innovative use of nanocomposites featuring graphene nanosheets was discussed. He further went on to explain various doping strategies for enhanced performance and longevity, needs, and cost-effective synthetic techniques like hydrothermal, microwave, and urea-assisted synthesis routes, all of which hold promise for economically viable production of advanced battery materials.

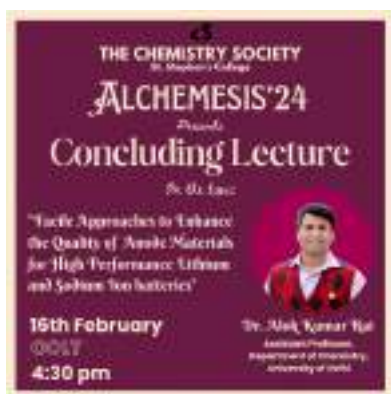
The speaker presented his detailed research on TiO₂ nanoparticles and Vanadium-doped nanoparticles, explaining the analysis of temperature-related synthesis and also discussed doping with vanadium and molybdenum. Vanadium and molybdenum can both enhance visible light absorption, but the specific mechanisms and optimal doping levels may differ. Molybdenum

might offer better thermal stability compared to vanadium in certain applications. The specific effects of temperature and dopant type (V or Mo) on TiO₂ nanoparticles depend on various factors like synthesis method, dopant concentration, and desired application. Researchers use a combination of analysis techniques to understand these complex interactions.

The lecture ended with a discussion on the pyro synthesis of lithium cobalt nitrite and TiO₂-related material. Lithium nitrate (LiNO₃) and cobalt nitrate (Co(NO₃)₂) are typically used. Extreme temperatures (typically between 300-500°C) in an inert atmosphere (e.g., argon or nitrogen) cause the nitrates to decompose releasing nitrogen oxides (NO_x) and leaving behind LiCoNO₂ particles. Techniques like X-ray diffraction (XRD) and Fourier-transform infrared spectroscopy (FTIR) are used to confirm the formation and purity of LiCoNO₂. Pyrolysis is a relatively simple and scalable technique for material synthesis, making it suitable for large-scale production. By adjusting the temperature, atmosphere, and precursors, various material properties like phase composition and morphology can be controlled.

An informative and interactive Q&A session allowed attendees to engage directly with the speaker, clarifying doubts and deepening their understanding. Timothy Gladston, The Annual Fest Convener, extended the vote of thanks. Samarth Bhatnagar, the President of the Chemistry Society honoured the speaker with a memento, as a token of our gratitude.

The evening concluded with refreshments and interaction in the Science lawns, where attendees had the opportunity to network and engage in discussions related to the lecture.



ST. STEPHEN'S COLLEGE
ATTENDANCE SHEET FOR THE PARTICIPANTS

Name of the Society: The Chemistry Society

Title of the event: Concluding Lecture, Alchemesis 2024

Date: 16th February 2024

| S.No | Name of the Participant | Course/ Department | College |
|-------------|--------------------------------|----------------------------------|-----------------------|
| 1 | Dr. Vibha Sharma | Department of Chemistry, Faculty | St. Stephen's College |
| 2 | Dr. Ekta Kundra | Department of Chemistry, Faculty | St. Stephen's College |
| 3 | Dr. Jyotirmoy Maity | Department of Chemistry, Faculty | St. Stephen's College |
| 4 | Dr. Kavya Bhakuni | Department of Chemistry, Faculty | St. Stephen's College |
| 5 | Dr. Garima Khanna | Department of Chemistry, Faculty | St. Stephen's College |
| 6 | Samarth Bhatnagar | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |
| 7 | Manav Jaison | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |
| 8 | Manmayi Mahopatra | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |
| 9 | Debangana Gogoi | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |
| 10 | Timothy Gladston | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |
| 11 | Himangshu Goswami | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |
| 12 | Alen Albert George | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |
| 13 | Prachi Agarwal | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |
| 14 | Nelan | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |
| 15 | Sneha Sangwan | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 16 | Shreya Rawat | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 17 | Ann Riya Selvi | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 18 | Prashujya Garg | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 19 | Iwin Jojo | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 20 | Lingampalli Likhith | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 21 | Aman Singh | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 22 | Ashli | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |

| | | | |
|----|-----------------------|---------------------------------|-----------------------|
| 23 | Payal | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 24 | Chinki | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 25 | Vansh | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 26 | Tanay | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 27 | Akshita | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 28 | Anchal | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 29 | Rhea | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 30 | Anshu | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 31 | Anushka Negi | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 32 | Sahil | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 33 | Joshua | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 34 | Gaurav | B.Sc. Programme, Semester 4 | St. Stephen's College |
| 35 | Alma | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 36 | Ritika | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 37 | Anjali | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 38 | Bhumi Singh | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 39 | Pihu | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 40 | Kavyansh | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 41 | Shraddha | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 42 | Ravinderjeet Singh | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 43 | Ravindra Kumar | Department of Chemistry | Delhi University |
| 44 | Priya Yadav | Department of Chemistry | Delhi University |
| 45 | Sahil | Department of Chemistry | Delhi University |
| 46 | Pragati | Department of Chemistry | Delhi University |
| 47 | Rishu Bhati | Department of Chemistry | Delhi University |
| 48 | Anasab Atiq | B.Sc. (H) Chemistry, Semester 4 | Miranda House |
| 49 | Somedutta Chakraborty | B.A. (H) English, Semester 4 | Miranda House |
| 50 | Arpit | B.Sc. (H) Physics, Semester 4 | St. Stephen's College |

SOCIETY ACTIVITY REPORT 2023-24

THE CHEMISTRY SOCIETY

Lecture on “A green molecular dynamics- based approach to explore the world of glycans ”

Date: 19th February 2024

Time: 2:00 PM

Venue: Old Chemistry Lecture Theatre (OCLT), Science Block

Session led by: Vidhi Sehrawat, PhD Student at Jagiellonian University, Krakow, Poland

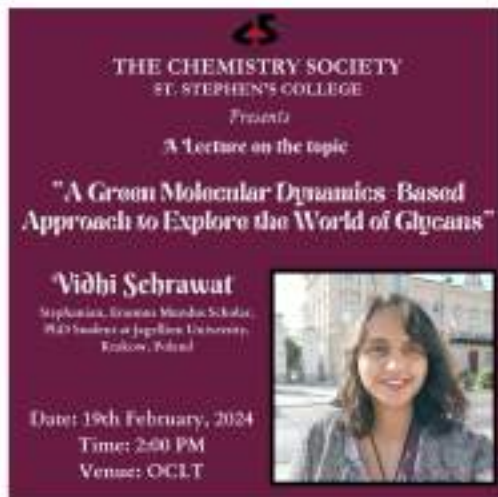
No. of participants: 58

The event commenced with a warm welcome and introduction of the speaker by Manmayi Mohapatra. In her lecture on computational biophysics, Vidhi commenced by offering an insightful introduction to the field, emphasising the significance of understanding transcription, reverse transcription, and translation processes. She explained these terms with the help of photographs and innovative animations in her presentation. She underscored the critical importance of proteins, elucidating their roles, structures, and spatial arrangements.

Moving forward, Vidhi delved into the intricate realm of glycans, which are essentially long chain sugars, providing a detailed explanation of their fundamental chemistry, dynamic nature, and the challenges associated with experimental and computational studies due to their continuous fluctuation. She highlighted the escalating computational costs associated with the complexity of experiments, especially in studying enormous long chain sugars like glycans, paving the way for discussing innovative solutions like GlycoSHIELD. Vidhi further elaborated on GlycoSHIELD, a sustainable simulation software, comparing its efficacy with other programs. She detailed its functionality in grafting glycans onto static proteins, assessing shielding efficiency, predicting glycan covers, and identifying bonding sites on glycoproteins.

Concluding her lecture, Vidhi shared insights from her own research on glycans in neurotransmitter receptors, particularly focusing on GABA receptors done using multiple computational softwares including GlycoSHIELD. Additionally, she shed light on alternative techniques such as mass spectrometry, XRD, NMR, hessian and gradient matrix, and quantum mechanics for studying glycans, enriching the audience's understanding of this intricate field. Following the lecture, an informative and interactive question-and-answer session allowed attendees to engage directly with the speaker, clarifying doubts and deepening their understanding.

Manmayi Mohapatra extended the vote of thanks. The session proved to be a valuable learning experience for the participants, nurturing their intellectual curiosity and promoting scholarly discourse.



ST. STEPHEN'S COLLEGE

ATTENDANCE SHEET FOR THE PARTICIPANTS

Name of the Society: The Chemistry Society

Title of the event: "A green molecular dynamics- based approach to explore the world of glycans "

Date: 19th February 2024

| S.No. | Name | Course | College |
|-------|---------------------|----------------------------------|-----------------------|
| 1 | Dr. Jyotirmoy Maity | Faculty, Department of Chemistry | St. Stephen's College |
| 2 | Dr. Vibha Sharma | Faculty, Department of Chemistry | St. Stephen's College |
| 3 | Dr. Kavya Bhakuni | Faculty, Department of Chemistry | St. Stephen's College |
| 4 | Prachi Agarwal | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |
| 5 | Alen Albert George | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |
| 6 | Aleena Kunjumon | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |
| 7 | Jeslin Mary Thomas | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |
| 8 | Aleesha Jacob | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |
| 9 | Annriya Tom | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |
| 10 | Evelyn Marie | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |
| 11 | Divya Mariyam Biju | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |

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|----|---------------------------|---------------------------------|-----------------------|
| 12 | Monika | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |
| 13 | Ankita Suman | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |
| 14 | Shubhangi Arora | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |
| 15 | NG Havanai | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |
| 16 | Judith Lalvarzing Pulamte | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |
| 17 | Risa Joseph | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |
| 18 | Ayush George | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |
| 19 | James Mathew | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |
| 20 | Himangshu Goswami | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |
| 21 | Manav Jaison | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |
| 22 | Tamanna Vashist | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |
| 23 | Samarth Bhatnagar | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |
| 24 | Nelan Akanksha Topno | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |
| 25 | Timothy Gladston | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |
| 26 | Manmayi Mohapatra | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |
| 27 | Debangana Gogoi | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |
| 28 | Devanshu Lalwani | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |
| 29 | Shreya Rawat | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 30 | Ann Riya Selvi | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 31 | Sneha Sangwan | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 32 | Olive Masih | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 33 | Prashujya Garg | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 34 | Iwin Jojo | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 35 | Madhvan Panchal | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 36 | Sahil Joseph | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 37 | Joshua James | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 38 | Steny Sajan | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |

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|----|-------------------|---------------------------------|-----------------------|
| 39 | Ashly Rachel Lalu | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 40 | Ashli | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 41 | Christymol | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 42 | Aman Singh | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 43 | Anshu Nehra | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 44 | Anchal Bansal | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 45 | Tejasi Gupta | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 46 | Anushka Negi | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 47 | Chinki Baniwal | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 48 | Tanay Agrawal | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 49 | Kavyansh Saksena | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 50 | Pihu Roy | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 51 | Anjali | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 52 | Ritika | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 53 | Ravinderjeet | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 54 | Yusuf Khan | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 55 | Edward | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 56 | Nebin Benny | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 57 | Utkarsh Yadav | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 58 | Anurag Kachary | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |

SOCIETY ACTIVITY REPORT 2023-2024

THE CHEMISTRY SOCIETY

LECTURE BY PROF. ANUKUL JANA ON THE TOPIC- "A Convenient Access of Alkenes and Carbocations for Various Closed and Open Shell Compounds."

Date- 11th March 2024

Speaker- Dr. Anukul Jana, Associate professor, TIFR, Hyderabad

Venue- Old Chemistry Lecture Theatre (OCLT), Science Block

No. of participants- 34

The event commenced with a welcome address and introduction of the speaker by Sneha, the Sponsorship Head, followed by the lecture by professor Anukul Jana. Dr. Anukul Jana began by introducing the audience to the concept of alkenes and carbocations as essential synthons for a wide range of organic compounds. He emphasised the convenience of accessing these synthons and their pivotal role in organic synthesis.

One of the focal points of the lecture was the discussion on xylene, a group of isomeric hydrocarbons. Anukul Jana elaborated on the structural differences among various xylene isomers and their significance in different chemical reactions, showcasing the versatility of these compounds.

Furthermore, the lecture delved into the chemistry of organic radicals, highlighting their importance in both closed and open shell compounds. Anukul Jana provided insightful examples and case studies to elucidate the behaviour and reactivity of these radicals, offering a comprehensive understanding of their role in organic chemistry. He explained the use of radical-carbocations as synthons and the vast scope of iminium cations and pyrolium cations as synthons. He further talked about Bis- carbocations and their various reactions, synthesised compounds and their derivatives. He also talked about organic radicals by gomberg, organic di-radicals, unpaired electrons and spin main group elements like- B,C,O,N,He. Alkene electron donors, acceptors and redox systems made by them were discussed in detail. He concluded the lecture by talking about twisted push-pull alkene reactions, synthesised compounds, derivatives and characterisation of the synthesised compounds.

Overall, the lecture by Anukul Jana was enlightening and engaging, providing students with valuable insights into the synthesis and reactivity of alkenes, carbocations, and organic radicals. It served as a platform for deeper exploration into the intricate world of organic chemistry and its applications in various scientific domains.

The event ended with the Vote of Thanks by Samarth Bhatnagar, the president of Chemistry Society and a momentous presentation to the speaker by Dr. Vibha Sharma, HOD, Chemistry Department and Dr. Jyotirmoy Maity, staff advisor of the Chemistry Society.



ST. STEPHEN'S COLLEGE ATTENDANCE SHEET FOR THE PARTICIPANTS

Name of the society- The Chemistry Society

Title of the event-LECTURE BY PROF. ANUKUL JANA ON THE TOPIC- "A Convenient Access of Alkenes and Carbocations for Various Closed and Open Shell Compounds."

Date- 11th March 2024

| S.No. | Name | Course | College |
|-------|---------------------|----------------------------------|-----------------------|
| 1 | Dr. Jyotirmoy Maity | Faculty, Department of Chemistry | St. Stephen's College |
| 2 | Dr. Vibha Sharma | Faculty, Department of Chemistry | St. Stephen's College |
| 3 | Dr. Kriti Kashyap | Faculty, Department of Chemistry | St. Stephen's College |
| 4 | Dr. Aditi Gupta | Faculty, Department of Chemistry | St. Stephen's College |
| 5 | Dr. Kavya Bhaguni | Faculty, Department of Chemistry | St. Stephen's College |
| 6 | Dr. Sonam Nirwan | Faculty, Department of Chemistry | St. Stephen's College |

| | | | |
|----|---------------------|---------------------------------|-----------------------|
| 7 | Samarth Bhatnagar | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |
| 8 | Manav Jaison | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |
| 9 | Manmayi Mohapatra | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |
| 10 | Debangana Gogoi | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |
| 11 | Alen Albert George | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |
| 12 | Timothy Gladston | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |
| 13 | Prashujya Garg | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 14 | Sneha Sangwan | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 15 | Shreya Rawat | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 16 | Ann Riya Selvi | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 17 | Likhith Lingampalli | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 18 | Iwin Jojo | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 19 | Aman Kumar | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 20 | Nitesh Dumdung | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |
| 21 | Tejasi Gupta | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 22 | Edward | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 23 | Rhea Sabharwal | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 24 | Nebin Benny | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 25 | Suhani Mehta | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 26 | Tanay Agrawal | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 27 | Chinki Baniwal | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 28 | Anushka Negi | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 29 | Shambhavi Jha | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 30 | Anchal Bansal | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 31 | Kavyansh Saxena | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 32 | Utkarsh Yadav | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 33 | Ishika | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 34 | Olive Masih | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |

SOCIETY ACTIVITY REPORT 2023-24

THE CHEMISTRY SOCIETY

Online Lecture on "Melding minds and machines"

Date: 13th March 2024

Speaker: Dr. Sarbajit Banerjee, Professor and Davidson Chair in Science,
A&M University, Texas

No. of participants: Stephen's- 50

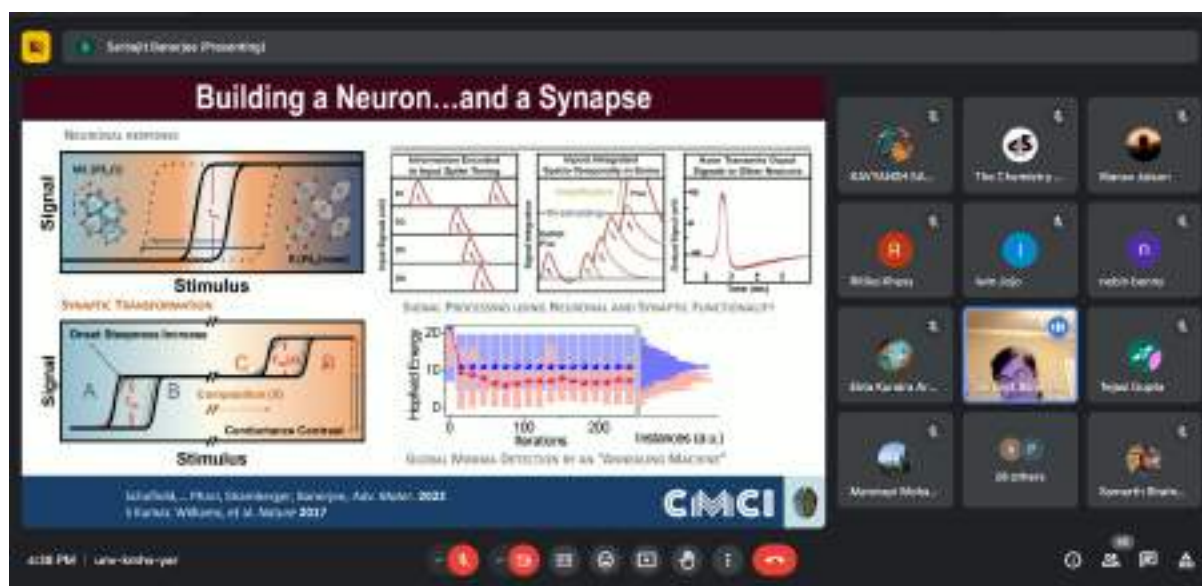
The session began with a warm welcome from Shraddha Jaiswal. Utkarsh Yadav then introduced the esteemed speaker, Prof. Sarbajit Banerjee, who embarked on an enlightening journey through the evolution of computing technologies.

Prof. Banerjee captivated the audience by tracing the history of computers, from the era of floppy disks to the contemporary world of sleek laptops. He emphasised the role of the semiconductor industry in this evolution, shedding light on the chemistry of silicon as the backbone of modern computer chips. Venturing into the realm of energy and technology, he highlighted the escalating demand for energy for artificial intelligence (AI). He eloquently articulated the energy efficiency of the human brain, drawing parallels to the quest for mimicking neuronal and synaptic functions in computer systems.

Prof. Banerjee emphasised the necessity of designing AI systems that align with our societal values, with integrity and honesty as fundamental pillars. He then introduced the audience to the fascinating domain of neuromorphic computing and power-enhancing materials and the properties required for these materials along with the property-enhancing phase change technology. This approach to Artificial Intelligence draws inspiration from the human brain's structure and functioning, with interconnected networks of artificial neurons. These systems excel at parallel processing, where multiple computations occur with minimal power consumption. He explained in detail the concept of metal-insulator transitions with its emphasis on doping materials with vanadium dioxide (VO₂). By doping VO₂ with specific elements, researchers can finely tune its electrical properties, critical temperature, and hysteresis behavior. This makes doped VO₂ a promising candidate for various applications, from innovative technologies to advanced electronic devices.

Throughout his lecture, Prof. Banerjee skillfully incorporated a blend of captivating illustrations, relatable examples, and insightful extracts, which kept the audience thoroughly engaged. The Q&A session was a vibrant exchange of ideas, with students actively participating in elucidating discussions. Prof. Banerjee's adept responses further enriched the understanding of the audience, leaving a lasting impact on their minds.

Bhumi Singh delivered the Vote of Thanks. The session proved to be a treasure trove of knowledge, offering students a profound glimpse into the future of computing and AI and a newfound appreciation for the intricate interplay of technology, energy, and the limitless possibilities of the human mind.



ST. STEPHEN'S COLLEGE ATTENDANCE SHEET FOR THE PARTICIPANTS

Name of the Society: The Chemistry Society

Title of the event: Lecture on "Melding minds and machines" by Dr Sarbajit Banerjee

Date: 13th March 2024

| S.No. | Name | Department/Course | College |
|-------|------------------|----------------------------------|-----------------------|
| 1 | Dr. Vibha Sharma | Faculty, Department of Chemistry | St. Stephen's College |

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|----|---------------------|----------------------------------|-----------------------|
| 2 | Dr. Megha Munjal | Faculty, Department of Chemistry | St. Stephen's College |
| 3 | Dr. Kriti Kashyap | Faculty, Department of Chemistry | St. Stephen's College |
| 4 | Dr. Rakhi Thareja | Faculty, Department of Chemistry | St. Stephen's College |
| 5 | Dr. Ekta Kundra | Faculty, Department of Chemistry | St. Stephen's College |
| 6 | Dr. Garima Khanna | Faculty, Department of Chemistry | St. Stephen's College |
| 7 | Dr. Kavya Bhakuni | Faculty, Department of Chemistry | St. Stephen's College |
| 8 | Samarth Bhatnagar | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |
| 9 | Manav Jaison | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |
| 10 | Manmayi Mohapatra | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |
| 11 | Debangana Gogoi | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |
| 12 | Alen Albert George | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |
| 13 | Timothy Gladston | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |
| 14 | Aleena Kunjumon | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |
| 15 | Ann Riya Tom | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |
| 16 | Ankita Suman | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |
| 17 | Nelan Topno | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |
| 18 | Tamanna vashisht | B.Sc (H) Chemistry, Semester 6 | St. Stephen's college |
| 19 | Vidushi Gupta | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |
| 20 | Prashujya Garg | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 21 | Sneha Sangwan | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 22 | Shreya Rawat | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 23 | Ann Riya Selvi | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 24 | Likhith Lingampalli | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 25 | Iwin Jojo | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 26 | Aman Kumar | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 27 | Tejasi Gupta | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 28 | Anushka Negi | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 29 | Pratyush Kumar Dash | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 30 | Rhea Sabharwal | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 31 | Alna C Prasanth | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 32 | Adepa S Anil | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 33 | Anurag Kachary | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 34 | Arvind Yadav | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 35 | Bhumi Singh | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 36 | Edward | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |

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|----|--------------------|---------------------------------|-----------------------|
| 37 | Ishika | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 38 | Kavyansh Saxena | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 39 | Nebin Benny | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 40 | Pihu Roy | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 41 | Ritika Khess | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 42 | Shambhawi Jha | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 43 | Shraddha Jaiswal | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 44 | Utkarsh Yadav | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 45 | Divya Mariyam Biju | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |
| 46 | Himangshu Goswami | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |
| 47 | Ayush George | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |
| 48 | Dev Chaudhary | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 49 | Anshu | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 50 | Ritik Tiwari | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |

SOCIETY ACTIVITY REPORT 2023-24

THE CHEMISTRY SOCIETY

CHARUSITA MEMORIAL LECTURE 2024

The Chemistry Society organized the Charusita Memorial Lecture on the 21st and 22nd of March 2024. Distinguished speaker Professor Ali Alavi gave the lecture on the topic 'Electron correlation problems & highly accurate Quantum Chemistry Models'.

DAY 1

Date: 21st March 2024

Venue: OCLT

No. of participants: 110 (St. Stephen's College- 83, Outside College- 27)

The event commenced with a warm welcome by Alen, the Oxygen Editor-in-Chief, and Shreya, the Oxygen Sub-editor, who anchored the event, followed by a prayer song by Rhea Sabharwal, Risa Joseph and Ann Riya Selvi. The ceremonial lighting of the lamp by Dr. Vibha Sharma-Head of the department, Dr. Jyotirmoy Maity-Staff advisor, Samarth Bhatnagar, Manav Jaison, and Debangana Gogoi marked the official inauguration of the event. This was followed by the introduction of the speaker by Himangshu, the Annual Fest Head, and the introduction of the Late Prof. Charusita by Debangana, the Lecture Convener of the Chemistry Society. Professor Ramaswamy and Professor Ali spoke a few words reminiscing the memories of the Late Professor Charusita.

Professor Ali commenced his lecture by acquainting us with the intricacies of the many-electron Schrödinger equation, elucidating its numerous terms and associated challenges. He delved into the formidable yet fundamental task of solving this equation for diverse molecules, such as benzene, highlighting the complexities involved. Introducing the utilisation of fermionic creation and annihilation operators, alongside incorporating two-body and orbital terms, he outlined the construction of the requisite Hamiltonian. Following the formation of Hamiltonian, the next problem is that of the electron correlation which arises due to the superimposition of a large number of Slater determinants. Prof. Ali brought out a simpler way of bringing down the large number of terms in the Hamiltonian using the Hartree-fock wave term in the wave equation along with numerous small terms which arise due to the dynamical correlation arising through double excitations.

Expanding upon these concepts, Professor Ali extended the discussion to encompass multi-reference systems housing nearly degenerate states, low-spin open-shell systems, and

magnetic systems exhibiting spin degeneracy, facilitated by the introduction of full configuration interactions. Furthermore, he explored the feasibility of solving the Schrödinger Wave equation for infinite systems.

Transitioning to the imaginary time Schrödinger equation and determinant-based expansions, Professor Ali expounded on their correlation with existing solutions, albeit acknowledging their space-intensive nature due to the storage of numerous variables. Thus, he advocated for a more efficient optimization technique, namely the Full Configuration Interaction Quantum Monte Carlo (FCIQMC), which resolves the wave function. Illustrating the condensation of variables using FCIQMC for wave function solutions, he underscored its efficacy through the example of benzene, contrasting it with alternative, more time and storage-consuming optimization methods. He also depicted the increase in the solving time with an increase in the order of the optimization method.

Samarth Bhatnagar, the President of the Chemistry Society extended the vote of thanks. This was followed by the distribution of refreshments and a group photograph in the Science Lawns.





DAY 2

Date: 22nd March 2024

Venue: OCLT

No. of participants: 77 (St. Stephen's College- 53 Other Colleges- 24)

The events of day-2 commenced with a warm welcome by Alen, the Oxygen Editor-in-Chief and Shreya, the Oxygen Sub-editor. They introduced Professor Divya Nayar, Professor, Indian Institute of Technology, Delhi, and a student of Late Prof. Charusita who shared her memories and experiences with Late Prof. Charusita.

Following this Professor Ali Alavi resumed his lecture. Continuing the discourse on Full Configuration Interaction Quantum Monte Carlo (FCIQMC) during the first day of lecture, Professor Ali embarked on a comprehensive exploration of strongly correlated systems. He initiated the session with an introduction to various polynuclear 3d transition metal complexes and solids, including Manganese clusters, Iron-Sulfur compounds, and cuprates, all of paramount significance in condensed matter research.

With precision and insight, Professor Ali elucidated the inherent challenges associated with solving these compounds. He articulated the intricacies of magnetic centers carrying local spins while maintaining a total spin of zero, illustrating the presence of strong antiferromagnetic coupling in some and robust electronic correlation in others. Amidst these complexities, he emphasized the pursuit of theoretical understanding, highlighting the significance of spin models such as Heisenberg models, despite the potential accuracy offered by detailed ab initio descriptions.

Delving deeper, Professor Ali navigated through the realm of spin fluctuations, elucidating their role in driving kinetic exchanges within triplet and singlet states of electron orbitals, thereby manifesting antiferromagnetic characteristics. He expounded on the derivation of Heisenberg J values from these spin fluctuations, particularly in the context of cuprates, characterized by d9 configurations. By dissecting the superexchange mechanism between oxygen and copper orbitals, he unveiled the dynamic exchanges underlying changes in electronic density.

Transitioning to quantum chemical approximations for these systems, Professor Ali introduced methods such as Complete Active Space Self Consistent Field Theory (CASSCF). He elucidated the process of generating orbitals for cuprates using CASSCF, culminating in the determination of Heisenberg Exchange constants J closely aligning with experimental values. Further, he dissected the nature and slopes of combined 4d and 3d orbitals through illustrative diagrams, followed by discussions on breathing-enhanced predictions and the extension of the theory to calculate Heisenberg exchange predictions for nickelates.

Professor Ali then pivoted to Iron-Sulfur complexes, unveiling the quantification of spin degeneracy using the Van-Vleck Sherman formula, essential for ascertaining open shell configurations. He provided insights into spin degeneracy in ferric cubanes, offering a simple approximation for finding Slater determinants and Heisenberg Hamiltonians through natural order Configurational State Functions (CSFs). Expanding the discourse to longer chains, he navigated the Block diagonalization of the Hamiltonian, a technique instrumental in simplifying the complex landscape of spin interactions.

Concluding the lecture with a scholarly flourish, Professor Ali introduced the calculation of spin ladders for Iron sulfate complexes, encapsulating the breadth and depth of theoretical insights imparted throughout the session. With his erudite exposition and lucid explanations, Professor Ali left his students enriched with a deeper understanding of the intricate interplay of quantum mechanics in correlated systems.

The event concluded with vote of thanks by Samarth Bhatnagar and the presentation of memento to the speaker by Dr. Jyotirmoy Maity, the Staff Advisor, and Manav Jaison, the Vice President of the Chemistry Society.



ST. STEPHEN'S COLLEGE

ATTENDANCE SHEET FOR THE PARTICIPANTS

Name of the Society: The Chemistry Society

Title of the event: **Charusita Memorial Lecture 2024- Electron Correlation Problems & Highly Accurate Quantum Chemistry Models**

Date: 21st and 22nd March 2024

DAY 1 (21 March 2024)

| S.No. | Name | Course/Department | College |
|-------|---------------------|----------------------------------|-----------------------|
| 1 | Dr. Rene Saksena | Faculty, Department of Chemistry | St. Stephen's College |
| 2 | Dr. Jyotirmoy Maity | Faculty, Department of Chemistry | St. Stephen's College |
| 3 | Dr. Vibha Sharma | Faculty, Department of Chemistry | St. Stephen's College |
| 4 | Dr. Kriti Kashyap | Faculty, Department of Chemistry | St. Stephen's College |
| 5 | Dr. Aditi Gupta | Faculty, Department of Chemistry | St. Stephen's College |
| 6 | Dr. Kavya Bhaguni | Faculty, Department of Chemistry | St. Stephen's College |
| 7 | Dr. Sonam Nirwan | Faculty, Department of Chemistry | St. Stephen's College |
| 8 | Dr. Ekta Kundra | Faculty, Department of Chemistry | St. Stephen's College |
| 9 | Dr. Violet R Macwan | Faculty, Department of Chemistry | St. Stephen's College |
| 10 | Dr. Megha Munjal | Faculty, Department of Chemistry | St. Stephen's College |

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| 11 | Dr. Rakhi Tharja | Faculty, Department of Chemistry | St. Stephen's College |
| 12 | Dr. Garima Khanna | Faculty, Department of Chemistry | St. Stephen's College |
| 13 | Prof. Ram Ramaswamy | Visiting Professor, IIT Delhi | IIT Delhi |
| 14 | Dr. Divya Nayar | Faculty, IIT Delhi | IIT Delhi |
| 15 | Aarushi Chatterjee | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 16 | Adepa S Anil | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 17 | Alma Jaison | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 18 | Alna C Prasanth | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 19 | Anjali | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 20 | Anurag Kachary | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 21 | Bhumi Singh | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 22 | Edward | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 23 | Hanna Binoy | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 24 | Harshvardhan Singh Naruka | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 25 | Ishika | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 26 | Kavyansh Saxena | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 27 | Pihu Roy | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 28 | Ravinderjeet Singh | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 29 | Ritika khes | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 30 | Shambhawi Jha | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 31 | Shraddha Jaiswal | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 32 | Siddhant Mishra | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 33 | Surekha | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 34 | Utkarsh yadav | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 35 | Vansh Kumar | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 36 | Yatin Dwivedi | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 37 | Yusuf Khan | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 38 | Aman Singh | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 39 | Anchal | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 40 | Ann Riya Selvi | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 41 | Anshu | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 42 | Anuj | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 43 | Chinki Baniwal | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 44 | Kavya | B.Sc. P Chemistry, Semester 4 | St. Stephen's College |

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|----|----------------------|---------------------------------|-----------------------|
| 45 | Krishna | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 46 | Lakshya Pratap Singh | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 47 | Prashujya Garg | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 48 | Rhea Sabharwal | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 49 | Ritik Tiwari | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 50 | Shreya | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 51 | Sneha | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 52 | Suhani | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 53 | Tanay agrawal | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 54 | Tejasi Gupta | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 55 | Aleesha Jacob | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |
| 56 | Alen Albert George | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |
| 57 | Amrutha | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |
| 58 | Anita Sebastian | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |
| 59 | Annriya Tom | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |
| 60 | Ayush George | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |
| 61 | Debangana Gogoi | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |
| 62 | Devanshu Lalwani | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |
| 63 | Divya Mariyam Biju | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |
| 64 | Harshit Gouri | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |
| 65 | James Mathew | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |
| 66 | Jeslin Mary Thomas | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |
| 67 | Judith | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |
| 68 | Manav | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |
| 69 | Nelan Akanksha Topno | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |
| 70 | NG Havanai | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |
| 71 | Prachi Agarwal | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |
| 72 | Samarth Bhatnagar | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |
| 73 | Savio Sibi | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |
| 74 | Serena Denny | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |
| 75 | Tamanna Vashist | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |
| 76 | Vidushi Gupta | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |
| 77 | Aryan | B.Sc. P Chemistry, Semester 6 | St. Stephen's College |
| 78 | Wilson | B.Sc. P Chemistry, Semester 6 | St. Stephen's College |
| 79 | Alan Antony | B.Sc. P Chemistry, Semester 6 | St. Stephen's College |

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|-----|-----------------------|--|--|
| 80 | Annet Sibi | B.Sc. P Chemistry, Semester 6 | St. Stephen's College |
| 81 | Vasanth Benchy Thomas | B.Sc. P Chemistry, Semester 6 | St. Stephen's College |
| 82 | Pratyush | B.Sc. P Chemistry, Semester 4 | St. Stephen's College |
| 83 | Evelyn | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |
| 84 | Ayush Kumar | B.Sc. (H) Physics, Semester 2 | Kirori Mal College |
| 85 | Baktiar Wasir Farooq | B.Sc. (H) Physics, Semester 2 | Kirori Mal College |
| 86 | Shaifali Tiwari | B.Sc. (H) Physics, Semester 2 | Kirori Mal College |
| 87 | Aadarsh Chauhan | M.Sc. Physics, Semester 4 | Department of physics and astrophysics |
| 88 | Anju | B.Sc. (H) Chemistry, Semester 4 | Hansraj College |
| 89 | Bipeen Kumar | M.Sc. Physics, Semester 4 | Department of Physics and Astrophysics, DU |
| 90 | Diku Khanikar | M.Sc. Physics, Semester 4 | Ramjas College |
| 91 | Kashish Singh | B.Sc. (H) Chemistry, Semester 4 | Miranda House |
| 92 | Kirti kaushal | B.Sc. (H) Chemistry, Semester 4 | Miranda House |
| 93 | Monika Kumari | B.Sc (H) Chemistry, Semester 4 | Hansraj College |
| 94 | Nandini Biswal | B.Sc. (H) Chemistry, Semester 4 | Miranda House |
| 95 | Neeraj Singh | M.Sc. Physics, Semester 4 | Ramjas College |
| 96 | Parmod | B.Sc. Programme Electronics, Semester 4 | Atma Ram sanatan Dharma College |
| 97 | Sneha De | B.Sc. (H) Chemistry, Semester 4 | Miranda House |
| 98 | Alen Binu Abraham | Theoretical Chemistry, Semester 2 | Autonomous University of Madrid |
| 99 | Prem kipgen | B.Sc. (H) Chemistry, Semester 2 | Hindu College |
| 100 | Rasraj Thoudam | B.Sc. (H) Chemistry, Semester 2 | Hindu College |
| 101 | Shaifali Tiwari | B.Sc. (H) Physics, Semester 2 | Kirori Mal College |
| 102 | Shreya Sharma | B.Sc. (H) Physics, Semester 2 | Kirori Mal College |
| 103 | Tamanna De | B.Sc. (H) Botany Semester 2 | Kirori Mal College |
| 104 | Aarti Phalswal | B.Sc. (H) Chemistry, Semester 4 | Sri Guru Tegh Bahadur Khalsa College |
| 105 | Diku Khanikar | M.Sc. Physics, Semester 4 | Ramjas College |
| 106 | Ekta Pandey | B.Sc. (H) Chemistry, Semester 4 | Hansraj College |
| 107 | Janvi | B.Sc. (H) Chemistry, Semester 4 | Hansraj College |
| 108 | Kritika | B.A. Programme, Semester 4 | Indraprastha college for women |
| 109 | Dr. Rashmi Sachdeva | Retired Professor, Department of Chemistry | St. Stephen's College |

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|-----|--------------------|----------------------------------|-------------------|
| 110 | Dr. Bikram Phookun | Professor, Department of Physics | Ashoka University |
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DAY 2 (22 March 2024)

| S.No. | Name | Course/Department | College |
|-------|---------------------|----------------------------------|-----------------------|
| 1 | Dr. Rene Saksena | Faculty, Department of Chemistry | St. Stephen's College |
| 2 | Dr. Jyotirmoy Maity | Faculty, Department of Chemistry | St. Stephen's College |
| 3 | Dr. Vibha Sharma | Faculty, Department of Chemistry | St. Stephen's College |
| 4 | Dr. Kriti Kashyap | Faculty, Department of Chemistry | St. Stephen's College |
| 5 | Dr. Aditi Gupta | Faculty, Department of Chemistry | St. Stephen's College |
| 6 | Dr. Kavya Bhaguni | Faculty, Department of Chemistry | St. Stephen's College |
| 7 | Dr. Sonam Nirwan | Faculty, Department of Chemistry | St. Stephen's College |
| 8 | Dr. Ekta Kundra | Faculty, Department of Chemistry | St. Stephen's College |
| 9 | Dr. Violet R Macwan | Faculty, Department of Chemistry | St. Stephen's College |
| 10 | Dr. Megha Munjal | Faculty, Department of Chemistry | St. Stephen's College |
| 11 | Dr. Rakhi Tharja | Faculty, Department of Chemistry | St. Stephen's College |
| 12 | Dr. Garima Khanna | Faculty, Department of Chemistry | St. Stephen's College |
| 13 | Prof. Ram Ramaswamy | Visiting Professor, IIT Delhi | IIT Delhi |
| 14 | Dr. Divya Nayar | Faculty, IIT Delhi | IIT Delhi |
| 15 | Adepa S Anil | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 16 | Bhumi Singh | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 17 | Edward | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 18 | Kavyansh Saxena | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 19 | Pihu Roy | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 20 | Shambhawi Jha | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 21 | Utkarsh Yadav | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 22 | Ann Riya Selvi | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 23 | Prashujya Garg | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 24 | Rhea Sabharwal | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 25 | Shreya | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 26 | Sneha | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 27 | Suhani | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 28 | Alen Albert George | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |

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| 29 | Debangana Gogoi | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |
| 30 | Devanshu Lalwani | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |
| 31 | Divya Mariyam Biju | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |
| 32 | James Mathew | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |
| 33 | Manav | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |
| 34 | Nelan Akanksha Topno | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |
| 35 | NG Havanai | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |
| 36 | Prachi Agarwal | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |
| 37 | Samarth Bhatnagar | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |
| 38 | Tamanna Vashist | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |
| 39 | Vasanth Benchy Thomas | B.Sc. P Chemistry, Semester 6 | St. Stephen's College |
| 40 | Pratyush | B.Sc. P Chemistry, Semester 4 | St. Stephen's College |
| 41 | Evelyn | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |
| 42 | Alan Antony | B.Sc. P Chemistry, Semester 6 | St. Stephen's College |
| 43 | Vasanth Benchy Thomas | B.Sc. P Chemistry, Semester 6 | St. Stephen's College |
| 44 | Amrutha | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |
| 45 | Anita Sebastian | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |
| 46 | Annriya Tom | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |
| 47 | Ayush George | B.Sc. (H) Chemistry, Semester 6 | St. Stephen's College |
| 48 | Tanay agrawal | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 49 | Tejasi Gupta | B.Sc. (H) Chemistry, Semester 4 | St. Stephen's College |
| 50 | Surekha | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 51 | Priyanshu | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 52 | Vansh Kumar | B.Sc. (H) Chemistry, Semester 2 | St. Stephen's College |
| 53 | Anju | B.Sc. (H) Chemistry, Semester 4 | Hansraj College |
| 54 | Bipeen Kumar | M.Sc. Physics, Semester 4 | Department of Physics and Astrophysics, DU |
| 55 | Diku Khanikar | M.Sc. Physics, Semester 4 | Ramjas College |
| 56 | Kashish Singh | B.Sc. (H) Chemistry, Semester 4 | Miranda House |
| 57 | Kirti kaushal | B.Sc. (H) Chemistry, Semester 4 | Miranda House |
| 58 | Monika Kumari | B.Sc (H) Chemistry, Semester 4 | Hansraj College |
| 59 | Alen Binu Abraham | Theoretical Chemistry, Semester 2 | Autonomous University of Madrid |
| 60 | Prem kipgen | B.Sc. (H) Chemistry, Semester 2 | Hindu College |
| 61 | Rasraj Thoudam | B.Sc. (H) Chemistry, Semester 2 | Hindu College |

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| 62 | Tamanna De | B.Sc. (H) Botany Semester 2 | Kirori Mal College |
| 63 | Aarti Phalswal | B.Sc. (H) Chemistry, Semester 4 | Sri Guru Tegh Bahadur Khalsa College |
| 64 | Diku Khanikar | M.Sc. Physics, Semester 4 | Ramjas College |
| 65 | Ekta Pandey | B.Sc. (H) Chemistry, Semester 4 | Hansraj College |
| 66 | Janvi | B.Sc. (H) Chemistry, Semester 4 | Hansraj College |
| 67 | Kritika | B.A. Programme, Semester 4 | Indraprastha college for women |
| 68 | Dr. Rashmi Sachdeva | Retired Professor, Department of Chemistry | St. Stephen's College |
| 69 | Dr. Bikram Phookun | Professor, Department of Physics | Ashoka University |
| 70 | Dr. S.V. Eswaran | Retired Professor, Department of Chemistry | St. Stephen's College |
| 71 | Dr. Frank | Retired Professor, Department of Chemistry | St. Stephen's College |
| 72 | Prof. Rama Kant | Professor, Department of Chemistry | University of Delhi |
| 73 | Prof. Subho Mazumdar | Professor, Department of Chemistry | University of Delhi |
| 74 | Dr. Surajit Ghosh | Professor, Department of Chemistry | University of Delhi |
| 75 | Dr. Sumanta Sarkar | Professor, Department of Chemistry | University of Delhi |
| 76 | Prof. Rajeev Gupta | Professor, Department of Chemistry | University of Delhi |
| 77 | Prof. Rakesh Kumar | Professor, Department of Chemistry | University of Delhi |