

Year 2020-21

- **Webinar titled “CRO-India stepping towards safe Electronics”** by Dr Bharat K Yadav, Scientist E, Ministry of Electronics and Information Technology, India on 18th July 2020.
- **Webinar titled “Using internet for credible health-care services”** by Dr Manuj Garg, co-founder, myUpchaar.com on 21st July 2020.
- **Webinar titled “So let us reflect on striving for excellence, social equity and environmental security”** by Prof Radhey Shyam Sharma, Department of Environmental Science, University of Delhi, on 27th July 2020.
- **Annual Inter collegiate essay competition** on the topic “**Innovations and Ecological Sustainability**” in the month of September 2020.
- **Webinar titled “Application of Nanotechnology for sustainable production of Horticultural crops”** by Prof. Ratna Rai, Department of Horticulture, College of Agriculture, GBPUA&T Pant Nagar, Uttarakhand, on 28th February 2021.
- **Online slogan writing and photography competition** on the theme "**Ecological Revival and COVID 19**" on 5th June 2021.
- **Baisakhi Celebration 2021-** Like every year, Department of Science celebrated Baisakhi in April 2021 following Covid-19 protocols.

Year 2021-22

- **Webinar titled “Spectroscopy and its applications”** by Prof. Alka Gupta, Department of Chemistry, Dyal Singh College on 14th August 2021
- **Annual Inter collegiate essay competition** on the topic “**Space tourism: A new era of space travel**” in the month of September 2021
- **Webinar titled “Climate crisis and impact on urban biodiversity”** by Dr Robin Suyash, Department of Environment Studies, Sri Venkateshwara College on 4th October 2021.
- **Webinar titled “A travel and travelers Perspective on biodiversity and natural landscapes of India”** by Mr. Kumar Bharat, Founder Glory trip, on 8th October 2021.
- **Online slogan writing and photography competition on the theme "Only One Earth"** on 5th June 2022

- **Plantation Drive 2021-** To save environment, Department of Science successfully started a plantation drive in the college entitled “Each one plant one” on 19th August 2021.
- **Baisakhi Celebration - Baisakhi** was celebrated by the Department of Science in April 2022 following covid-19 protocol.
- **‘Save Soil’ awareness-** A campaign on importance of soil health and its conservation, SAVE SOIL was conducted on 4th May 2022. The program is an initiative of ‘Isha Foundation’. Students at the college participated in poster making and slogan writing competition.
- **Nutrition garden at Lady Irwin College-** The college has rich diversity of flora. The students are educated to value the plants and are involved in multiplication of plants. Fruits and vegetables are very important part of the rich diversity of the college. The Department of Science created a video to showcase the nutrition garden in the college. The foundational principle behind the nutrition garden is to complement the classroom teaching in natural sciences.
- **Kalam Series on Science and Environment 2021 -** The Department of Science initiated an annual event in the memory of Dr APJ Abdul Kalam to promote Scientific and environmental tempore among the youth. The Department successfully organised an annual essay competition on the topic “**Space tourism: A new era of space travel**” in September 2021. Many students (undergraduate and post-graduate) from different colleges participated. National wildlife week, 2021 was also celebrated by organising number of webinars on the relevant topics.
- **National Science Day Celebration, 28th February 2022-** The Department of Science celebrated National Science Day on 28th February 2022 with great enthusiasm by organising a talk by Dr. Avshish Tyagi, Amity Institute of Advanced Research and Studies (Materials and Devices), on “**Advancement and realistic applications in Nanotechnology**” in a blended mode on 28th February 2022.

Year 2022-23

- **Professional Development and Skill Enhancement Program for Non-Teaching Staff, 2022-** A Professional Development and Skill enhancement Program for Non-Teaching Staff was conducted during 14th October 2022 - 20th October 2022 in all the four domains of sciences: Botany, Zoology, Physics and Chemistry on the topics as mentioned below: Botany: Kitchen gardening: Preparation of Soil, Raising and transplantation of seedlings, organic farming/gardening. Zoology: Genetic counselling. Chemistry: Handling of glassware, preparation of solutions and titrations. Physics: Understanding testing and measuring equipment.
- **Mission (LiFE): Promoting Lifestyle for Environment-** An initiative of MoEFCC highlighting the importance of mindful and deliberate utilisation of resources was conducted from last week of May to first week of June 2023.

Various activities included in the program are as follows:

- **Waste Segregation Workshop** was organized on 30th May 2023 for students and staff members of the college. The invited expert Mr. Sumant Shekhar, Lakhsya Society, New Delhi gave insights about the topic.
- **Repair Cafe** was organized on 1st June 2023 to promote circular economy practices among students and faculty members. Students and other members of the college were requested to bring the electronics such as laptops and mobiles for repairs. Our invited experts either got the electronic items repaired themselves or gave suggestions for further repairing.
- **E-waste collection drive** was also organized on 1st June 2023 to promote recycling of waste.
- **Kalam Series on Science and Environment 2022** - The Department of Science initiated an annual event in the memory of Dr A.P.J. Abdul Kalam to promote Scientific and environmental tempore among the youth. The Department successfully organised 5th annual debate competition on the topic **“The patent protection on scientific innovation promotes societal growth instead of restricting it”** on 20th January 2023. Students (undergraduate and post-graduate) from different states participated in the event.

- **Plantation Drive 2022-2023-** To save environment, Department of Science successfully conducted various plantation drives in the college entitled “Plantation for better future” on 22nd July 2022; 10th August 2022 & 5th June 2023. The department also conducted centenary plantation drive to commemorate the centenary year of University of Delhi.
- **Hindi Pakhwada 2022-** Quiz on Ecology and Science: A Quiz in Hindi was organized for non-teaching staff and students to observe the International Year of Basic Science for Sustainable Development on 2nd September 2022.
- **Science Department organized a talk** by Yogacharya Smt. Swati Kumari on “Yoga: Science of Mind, Body and Soul” to achieve healthy lifestyle on 8th September 2022.
- **65th Annual Flower Show, DU: 2023-** The Department facilitated the participation of college in 65th Annual Flower Show organised by University of Delhi on 2nd March 2023.
- **National Science Day Celebration-** The Department of Science celebrated National Science Day with great enthusiasm by organizing a talk by Dr. Rahul Agarwal, Centre of Food Technology Allahabad University, on “**Application of Laser induced breakdown Spectroscopy in Food**” in a blended mode on 28th February 2023.
- **Baisakhi Celebration** -The annual event of Baisakhi was celebrated by Department of Science on 13th April 2023.
- **World Environment Day-** World Environment Day 5th June 2023 was celebrated by Department of Science by conducting plantation drive and invited lecture on the topic “**Conservation challenges of low urban species biodiversity**” by Dr. Robin Suyesh, Sri Venkateswara College, New Delhi.
- **Training on Composting Method:** Department promotes sustainable management of organic waste through composting. Students are encouraged to participate and trained from the maintenance of the composting pits in the college.
- **Distribution of Leaf compost:** Department organized distribution of leaf compost prepared in the college to promote organic farming and better use of organic waste. Date: 10th August 2022.
- **Organic farming at Lady Irwin College-** The college has rich diversity of flora and has Nutrition Garden. The students are educated to value the plants and are involved in its multiplication. Fruits and vegetables are very important part of the rich diversity of the college. To add the diversity in the vegetable crops “water spinach” was introduced

in the fields of college. Video to showcase the nutrition garden in the college was also created. The foundational principle behind the nutrition garden and herbal garden is to complement the classroom teaching in natural sciences and further to sensitize the students of sustainable agriculture and promote organic farming and adopting healthy lifestyle. Faculty also visited Krishi Vigyan Kendra, Gautam Budh Nagar for gaining practical insights into Mushroom cultivation, Biofertilizers, Fish culture, Vermicomposting etc.

- **Field visits - educational visits were organized for the VAC students of Science and Society.** The students visited to National Science Centre on 20th December 2022 and National Agriculture Science Museum on 20th June 2023 to enrich their knowledge base.

Year 2023-24

- **The workshop on “Enhancing Skills in Botany”** for the students at Lakshmi Bai College, University of Delhi, New Delhi, was held on 6th May 2024. The aim of the workshop was to provide students with a hands-on experience in various practical aspects of applied botany, enabling them to develop and strengthen their skills in the field.
- **An expert lecture on Plastic waste and circular economy** was conducted on 7th May 2024 to educate students about the importance of sustainability. The session focused on adopting circular economy practices to reduce plastic waste and encourage more sustainable practices in everyday life.
- **Kalam Series on Science and Environment 2023-** The Department of Science initiated an annual event in the memory of Dr. A.P.J. Abdul Kalam to promote scientific and environmental temper among the youth. The Department successfully organised 6th annual debate competition on the topic **“Veganism is no panaceae for climate change”** on 3rd April 2024. Students (undergraduate and post-graduate) from different states participated in the event. The Chief Guest of the event Prof. Rakesh Kumar Upadhyay, Director, Hindi Patrakarita, IIMC, New Delhi graced the occasion by sharing his insightful thoughts on the topic-**The launch of the Science Journal Club by the esteemed Chief Guest, Prof. Rakesh Kumar Upadhyay**, was also the highlight of the event. This initiative was envisioned by our former director, Prof.

Anupa Siddhu, with the aim of instilling a scientific mindset in students. Today, the students of the Science Journal Club continue to uphold this vision by actively organizing various events of the department.

- **Plantation Drive 2023-2024-** The Department of Science successfully organized several plantations drives to promote environmental sustainability. The plantations were held on 17th August 2023, 25th August 2023, and 5th June 2024.
- **Hindi Pakhwada 2023-** Quiz on Ecology and Science: A quiz on Ecology and Science was organized on 2nd September 2023 for non-teaching staff and students on the topic "दैनिक जीवन और विज्ञान" to celebrate Hindi Diwas 2023. The event aimed to enhance and promote basic science knowledge in Hindi.
- **Wildlife Week 2023-2024-** To celebrate Wildlife Week, Dr. Shivangi Mishra delivered an invited lecture on 9th October 2023 focusing on the theme "Nature Conservation is Interdisciplinary." The importance of integrating various fields of study to effectively address conservation challenges was highlighted in the talk. The students gained deeper understanding of the interconnectedness of environmental preservation.
- **National Science Day Celebration-** The Department of Science celebrated National Science Day on 28th February 2024 with great enthusiasm by organizing a talk by Dr. Rohit Kumar from Delhi Technological University on the topic "**Recent technologies and innovation in health, environment and human development**".
- **66th Annual Flower Show, DU: 2024-** The Department facilitate the participation of college in 66th Annual Flower Show organised by University of Delhi on 1st March 2024.
- **Baisakhi Celebration-** The annual event of Baisakhi was celebrated by Department of Science on 15th April 2024.
- **World Environment Day-** World Environment Day 5th June 2024 was celebrated by Department of Science by conducting plantation drive with the theme "**Our Land. Our Future. We are generation restoration**".
- **Composting Training:** The department fosters sustainable organic waste management by offering composting training. Students are encouraged to actively participate and gain practical experience in maintaining composting pits on campus.
- **Organic Farming on Campus:** The department practices organic farming within the campus to promote sustainable agricultural methods and provide hands-on learning opportunities for students.

- **Leaf Compost Distribution:** To support organic farming and efficient waste management, the department organized a leaf compost distribution initiative, providing compost prepared on campus to enhance soil health and promote eco-friendly farming practices.
- **Nutrition Garden at Lady Irwin College**
The college has rich diversity of flora and has Nutrition Garden. The students are educated to value the plants and are involved in its multiplication. Fruits and vegetables are very important part of the rich diversity of the college. To add the diversity in the vegetable crops new crops are introduced in the fields of college on regular basis. The foundational principle behind the nutrition garden and herbal garden is to complement the classroom teaching in natural sciences and further to sensitize the students of sustainable agriculture and promote organic farming and adopting healthy lifestyle.
- **A Swap Shop**, focused on sustainable exchanges of stationery, jewellery, clothes, decor, and more was held on 19th March 2024 to promote the value of sustainability.
- **Educational visits were organized for the students studying Environment science and Science and society.** Students visited the Aravalli Biodiversity Park from March 13th to 15th March 2024 for a biodiversity study aimed at enhancing their knowledge.
- **A visit to INSA** was conducted on 26th April 2024 for a special lecture on "**Viksit Bharat @2047: The Role of Science and Technology.**"

2024-25

- *A Plantation Drive 2024* under the **Prime Minister's green campaign** was organized on **08-08-2024**. *Students learned the importance of environmental stewardship and collective responsibility.*
- The department organised a visit to attend INSA distinguished public lecture on "**Indian Lunar Exploration Program**" by Prof. Anil Bhardwaj, Director, Physical Research Laboratory, Ahmedabad on 22.08.2024.
- Another *Plantation Drive 2024* themed "**Grow a tree for life**" by Prof. Dinabandhu Sahoo was held on **09-09-2024**. *Students understood the role of trees in combating climate change and sustaining life.*

- **The Dr. Kalam Science and Environment Series Quiz Competition** on “**Indigenous Technology for Developed India**” took place on **10-09-2024**. *Students enhanced their knowledge of science, environment, and indigenous technologies.*
- A **Plantation Drive 2024 with the theme “Plant for Mother”** was conducted by the Ministry of Environment, Forest & Climate Change on **17-09-2024**. *Students were encouraged to adopt eco-friendly practices and respect nature.*
- **World Ozone Day** was observed with a lecture on “**Atmospheric Gases and Particle Chemistry in Real Scenarios**” by Dr. Pallavi Saxena from Hindu College, University of Delhi on **18-09-2024**. *Students gained awareness about ozone layer protection and atmospheric chemistry.*
- A **Workshop on Vermicomposting Technique** by Dr. Shiva Dhar Misra Division of Agronomy, Indian Agricultural Research Institute was held on **18-10-2024**. *Students acquired practical skills in sustainable waste management and soil enrichment.*
- A visit was organised on 26th October 2024 to Akashwani Bhawan to attend the Sardar Patel Memorial Lecture on ***Indian Space Odyssey in Search of New Frontiers*** delivered by Dr. S. Somnath, Chairman, ISRO."
- The Science Journal Club hosted an invited lecture on ***Scientific Research Writing*** on 5th November 2024, delivered by Dr. Kanika Malik, Senior Principal Scientist, National Institute of Science Communication and Policy Research. Students gained insights into techniques of scientific writing and effective research communication.
- A **Beekeeping Workshop** was organised on 11th December 2024 at Sunder Nursery with resource person Mr. Rakesh. Students learned practical skills in hive management, including inspection, honey extraction, and observation of bee behaviour. The workshop provided hands-on experience in beekeeping techniques and highlighted the ecological importance of bees in pollination and biodiversity.
- On **11th February 2025**, the students of VAC “*Science and Society*” (2nd Semester) visited **CSIR-NIScPR** to attend a one-day workshop on “*Empowering Girls for Participating in STEM: Fostering Awareness for Inclusive Education*” organized on the occasion of the **International Day of Women and Girls in Science**, which provided valuable insights on gender inclusivity and the role of women in scientific progress.
- **Skill Enhancement Session by Mr. Monu Kumar, Skill Foundation, Delhi on 12-02-25** – Students participated in an interactive session focused on developing essential

professional skills, such as communication, teamwork, problem-solving, and time management. The workshop provided practical tips and activities to prepare students for future career opportunities beyond their academic curriculum.

- "The Annual Debate under the Dr. Kalam Science and Environment Series was organised on 17th February 2025 by the Department of Science, Lady Irwin College, on the topic '**Emerging Economies are not Ready to Realise the True Potential of Blockchain Technology**'."
- **Curriculum-based Visit to Aravalli Biodiversity Park in February- March 2025** – As part of the Ability Enhancement Course (AEC), students explored biodiversity and ecological systems, observing flora and fauna and understanding environmental conservation first-hand.
- On the occasion of National Science Day, a seminar was organised on 28th February 2025 by the Department of Science under the Kalam Series on the theme '**Harnessing Light for Food Security**'. The lecture was delivered by Dr. Shilpi Agarwal, Assistant Professor, School of Physical Sciences, Jawaharlal Nehru University, New Delhi. Students explored innovative applications of light-based technologies in addressing global food challenges, with discussions on sustainable agriculture, food security, and scientific innovations.
- **Apiculture Workshop on 27-03-25** – A multidisciplinary workshop organised for Skill Enhancement Course students, giving students a comprehensive understanding of beekeeping and its practical applications.
- A workshop on enhancing skills in botany, chemistry, physics and zoology for the semester 2 and 4 students of Lakshmi Bai College, University of Delhi was organised from 2nd - 7th April, 2025. The workshop provided practical training complementing classroom lessons and allowing students to apply theoretical knowledge in real-world scenarios.
- An **industry visit** to *Natural Aroma Products Pvt. Ltd., Ghaziabad* was organized for the **IV Semester students (SEC Paper: Plant Aromatics and Perfumery)**, providing them with valuable insights into the **production and applications of natural aromatic products**, including essential oils, perfumes, and herbal extracts, on **3rd April 2025**.
- **Hands-on Training in Sericulture Technology on 07-04-25** – Students gained first-hand experience in silk production processes at Hansraj College, University of Delhi, linking theoretical concepts with practical techniques.

- An **invited lecture on *Spectroscopy*** was organised on 21st April 2025, delivered by Prof. Alka Gupta, Department of Chemistry, Dyal Singh College, University of Delhi. The session provided insights into the principles of spectroscopy and its practical applications in scientific research and industry."