

TERI SCHOOL OF ADVANCED STUDIES

Deemed to be University, Accredited 'A' grade by NAAC



Terra Matters Bulletin (October - December) Vol. IV of 2024



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Message from the Editor's desk

Dear TERI SAS Community,

As we step into a new year of learning, growth, and opportunity, I am filled with immense pride and gratitude for the collective achievements of our institution. Each of you has contributed to shaping our university into a vibrant hub of innovation, academic excellence, and community engagement.

The past months have been a testament to our resilience and dedication. Our students have excelled in academics, research, and extracurricular activities, bringing laurels to our institution. The faculty's unwavering commitment to nurturing young minds and fostering an environment of inquiry and creativity is truly commendable.

As we look ahead, let us focus on fostering collaboration, embracing innovation, and expanding our horizons. Whether through cutting-edge research, impactful community initiatives, or the pursuit of new academic frontiers, let us continue to uphold the values that define TERI School of Advanced Studies, New Delhi.

I encourage each of you to engage actively with the opportunities that lie ahead and contribute meaningfully to the legacy of our institution. Remember, your journey here is not just about acquiring knowledge but also about shaping the future.

Thank you for your dedication, hard work, and passion.
Together, we will continue to achieve greater heights.

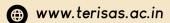
Best regards,

Prof. Suman Kumar Dhar Vice Chancellor TERI School of Advanced Studies, New Delhi

FOR MORE INFORMATION:









EVENTS AT TERI SAS



Sports Week 2024: Where passion meets play campus came alive with energy and excitement as Sports Week 2024 unfolded from October 7, 2024. The event, a celebration of athleticism and camaraderie, saw enthusiastic participation from students. Featuring a mix of and outdoor the intra-level games, competition brought out the best in every participant. Sports week included a variety of games like Table Tennis, Volleyball, Badminton, Chess and Carrom that catered to different interests and skill sets. The week was not just about winning, it was about participation, perseverance, and sportsmanship.

QALA - the Media and Arts club organised a vibrant cultural evening as part of its 26th-anniversary celebrations through a live concert by Ethno India on Monday, October 28, 2024 at 04:00 pm. Ethno India is part of a global project involving young artists from across the world, collaborating in a unique format, currently in its 6th edition. About 20 musicians from 7 countries performed together as an ensemble in this event.



A nation's culture resides in the hearts and in the soul of its people - Mahatma Gandhi



The course is being offered from October 1, 2024 to February 5, 2025, and is developed in collaboration with the Paris Agreement Article 6 Implementation Partnership Center hosted by the Institute Environmental Strategies for Global (IGES). It is provided by UNU-IAS in partnership with TERI SAS. External leading international lecturers from organizations in this field such as the UNFCCC (UN Climate Secretariat Change), the World Bank, and the Asian Development Bank are teaching parts of the course.

Aahwaan 2024: A celebration of talent and togetherness

The campus was brimming with excitement and creativity as it hosted the much awaited Aahwaan 2024 from November 28-30, 2024. The event was an unforgettable celebration of art, culture, and talent, making it the most vibrant and memorable event of the academic year. The fest featured an eclectic mix of events, performances, and competitions that catered to every taste and interest.

The success of the Aahwaan 2024 was a result of months of planning and dedication of students, faculty advisors, and staff members. Their teamwork ensured a seamless and enjoyable experience for everyone involved. As the lights dimmed and the last notes of music faded, the fest left everyone with cherished memories and a renewed sense of belonging to the TERI SAS family.













The National Roundtable on Natural Climate Solutions: Paving the path to India's NDC goals. The National Roundtable on Natural Climate Solutions, held on November 11, 2024 at the TERI SAS, served as a strategically designed Knowledge and Training Programme to equip stakeholders with the insights needed to achieve India's Nationally Determined Contributions (NDCs) of sequestering 2.5 to 3.0 billion tons of carbon by 2030. It sought to develop a broad understanding of Natural Climate Solutions by bringing together experts, policymakers, and practitioners from diverse sectors, as well as to identify innovative solutions and best practices that can assist in reaching these national targets.





Launch event of "Sattat Prabhadan": The much anticipated launch of "Sattat Prabhadan" on October 23, 2024 marked the beginning of an exciting new chapter at TERI SAS. Set to be a platform dedicated to promoting leadership, innovation, and sustainable management practices, this event offered valuable insights and foster collaboration among students and faculty alike. One of the highlights of the launch event was the Management Quiz, designed to test participants knowledge across a wide range of business and management topics. This engaging activity allowed students to showcase their talent, compete for prizes, and gain valuable insights for their academic and professional growth.





A group of around 60 students along with their faculty members from G D Goenka Public School Dwarka, visited the TERI SAS campus on December 6, 2024. Students visited the various Lab facilities on campus and were informed about the green features of TERI SAS campus and the career opportunities in the area of Sustainable Development.



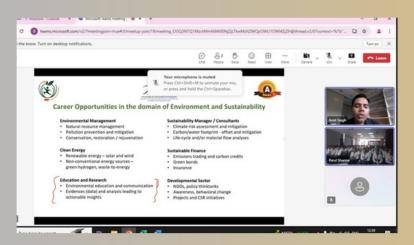


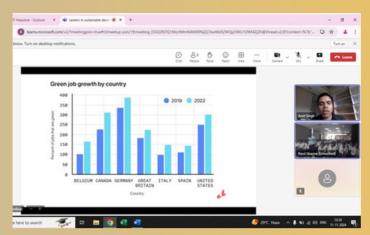
An interactive session was conducted with students of DAV School Faridabad, Haryana, to brief them about the various career prospects in the area of Sustainability and how the programmes at TERI SAS will prepare them for the future.





An interactive online session was conducted with students and teachers of Scholars Global School, Bahadurgarh to brief them about the various career prospects in the area of Sustainability and how the programmes at TERI SAS will prepare them for the future.





A group of 50 students along with their faculty members from DPS Ghaziabad visited the TERI SAS campus. They were informed about the green features of the TERI SAS campus and the career opportunities in the area of Sustainable Development.





Representatives from the TERI SAS interacted with parents and students at a Career fair hosted by Air Force Bal Bharti School, Lodhi Road, New Delhi.





A group of 40 students along with their faculty members from the G D Goenka International School, Sonepat, Haryana visited the TERI SAS campus. They were informed about the green features of the TERI SAS campus and the career opportunities in the area of Sustainable Development.





'KNOWLEDGE FOR SUSTAINABLE DEVELOPMENT'



FACULTY CORNER





Dr Aditi Singhal, Published an article in Review of Education titled "Role of public schools in education decisions in India" authored by Sonal Dua, Divya Gupta, Aditi Singhal and Naveen Joseph Thomas, in October 2024.

Dr Adil Masood, participated in a High-level International Conference on 'New Technologies for Clean Energy Transition', organized by International Solar Alliance at Bharat Mandapam, New Delhi on November 5, 2024.

Organized a lecture on "Air Quality Issues in the Rio Grande Valley, Region of South Texas, USA:Insights from Recent Studies" by Dr Amit Raysoni, University of Texas, Rio Grande valley (UTRGV), TX, USA on November 26, 2024.



Publication: Masood Adil, "Machine Learning for Water Quality Soft Sensing in Wastewater Treatment: State of the Art and Future Directions". In book Innovative and Hybrid Technologies for Wastewater Treatment and Recycling, Taylor and Francis, DOI: 10.1201/9781003454199-17



Dr Manini Syali, Presented a paper on "CBDR Principle and the ITLOS Advisory Opinion on Climate Change" at the Conference on Asian/African Perspectives on Sea Level Rise, organized by the School of Law, University of Lisbon. The event took place on October 3, 2024 in Lisbon, Portugal.

"Education is the passport to the future, for tomorrow belongs to those who prepare for it today."

— Malcolm X

Dr Pritha Datta, was invited as a resource person at the High-Level Policy Forum (HLPF) for the Scaling-up Climate-Smart Agriculture in South Asia (C-SUCSeS) project, organized by SAC, IFPRI, the International Fund for Agricultural Development (IFAD), and the SAARC Development Fund (SDF), held in the Maldives from November 14–15, 2024.





Dr Moumita Mandal, Publication: Permanent Court of Arbitration (PCA), Yearbook of International Environmental Law (Oxford: OPU), Volume 34, Issue 1, 2023, yvae005, Published: October 11, 2024. She delivered a lecture as a Guest Speaker at 10th International Conference on International Law October 25–27, 2024. India Habitat Centre, New Delhi organized by Indian Society of International Law on 'Protection of the Global Climate for Present and Future and Present Generations and Technology & Law'.

She was invited to deliver a lecture organized by Centre for Human Rights, Symbiosis Law School, Hyderabad on October 10, 2024 on 'Climate Change and Human Rights: With Special Focus on Women'. Organized special guest lecture on: "Globalization and Free Market" by Ms Sweta Basak, Assistant Professor, Department of Political Science, Satyawati College, University of Delhi, December 4, 2024 at 1.30 pm to 2.30pm.

Dr Ranjana Ray Chaudhuri chaired a technical session on Integrating Sustainability: Policy, Culture and Innovation for a Greener Future in the one-day National Conference organized by B L Munshi College of Education and Bharatiya Vidya Bhavan on "Weaving a Sustainable World: Knowledge, Cultures and Solutions" on October 9, 2024 at New Delhi.

Dr Ranjana in her address emphasized that connecting urban green spaces to reduction in CO2 emissions and reducing plastic packaging wastes.



In session 2 on Recirculate: Redefining Water Reuse for a Sustainable Circular Economy in the CII Saqua South Summit on Transforming Water Challenges into opportunities, Dr Ranjana Ray Chaudhuri emphasized the role of academia in advancing water reuse technologies and how lake restoration and ecological restoration research projects can shape sustainable water management practices. She emphasized that sustainable circular economy principles need industry-academia-community collaboration in a big way to conserve freshwater resources and keep them replenishable. More research and academic-industry collaboration at the regional level will bring more focused solutions on water positivity.



Dr Anand Madhukar, Assistant Professor and Programme Coordinator (Climate Science & Policy), received felicitation from his alma mater, Indian Insitute of Technology Delhi.

Dr Anand Jaiswal Publications

- 1. Negi, P, & Jaiswal, A. (2024): "Sustainable bonds as a sustainable financial instrument: thematic insights and future prospects". Qualitative Research in Financial Markets. (ABDC B, ESCI, and Scopus Q2).
- 2. Negi, P, Jaiswal, A., & Nathani, N. (2025): "Influence of green practices on environmental consciousness of management students for perceived financial well-being". The International Journal of Management Education, 23(1), 101091. (SSCI Q1, Scopus Q1, and ABDC C).



Workshops and Training Programmes

- Online Workshop: "Writing Effective Research Proposals: From Concept to Funding" conducted at Symbiosis Law School, Nagpur, October 18, 2024.
- Offline Workshop: "Acing Guesstimates Session" at FORE School of Management, New Delhi, October 23, 2024.
- Offline FDP: "Faculty Engagement in Research, Project, and Consulting: Impact on Accreditation and Academic Excellence" at Ashoka Institute of Technology and Management, November 18-20, 2024.
- Offline FDP: "Strategic CO-PO Mapping for Aligning Curriculum with Outcome-Based Education Standards" at Ashoka Institute of Technology and Management, November 21-22, 2024.



Dr Adwitiya Sinha participated as a resource person for delivering talks in the Common Corporate Training Programme 2024, organized by the Indian Oil Corporation Limited (IOCL) and the Indian Oil Institute of Petroleum Management. The talk was primarily focused on LiFE (Lifestyle for the Environment, a Government of India initiative) to the newly recruited IOCL officers on December 9, 10, 12 and 13, 2024. The theme of her talk explored several sustainability aspects of the LiFE project through general practices and smart computational ways.

Dr Manini Syali and Dr Moumita Mandal, Assistant Professor(s), Centre for Postgraduate Legal Studies, DoPMS, were invited to conduct training sessions on "Lifestyle for Environment (LiFE) (An environment conscious employee)" for Indian Oil Trainee Officers from November 17-22, 2024. The lectures were delivered to officers of different departments (Refineries, Pipelines, Marketing, and R&D) of Indian Oil.



Prof. Sukanya Das, Dean Research Partnerships, and Dr Ranjana Chaudhuri, Head, Department of Natural and Applied Sciences and Coca-Cola Department of Regional Water Studies, represented the TERI SAS at the Women Leadership Programme titled "Women Leaders: Shaping Academic Excellence for VIKSIT Bharat @2047". The event was held at IIT Delhi on December 13, 2024. The programme aimed to bring together women leaders in higher education to exchange insights, foster collaboration, and inspire the next generation of academic pioneers.



TERI SAS welcomes

"A good education can change anyone.
A good teacher can change everything!"



Dr Aditi Singhal
Assistant Professor
(Department of Policy and Management Studies)

Dr Malvika Tyagi Assistant Professor (Department of Policy and Management Studies)





Dr Priyanka Singh Assistant Professor (Department of Natural and Applied Sciences)

Dr Anand Jaiswal
Assistant Professor
(Department of Policy and Management Studies)

TERI SAS bids farewell to



Dr Amit Kaur Assistant Professor (Department of Sustainable Engineering)





STUDENT CORNER





Centre for Post-Graduate Legal Studies organized a Special Lecture on the occasion Constitution Day the on "Environmental Justice and Ecological Governance: A Constitutional Perspective" for the Students of TERI SAS. The Speaker was Dr Zubair Ahmed Khan, Senior Assistant Professor, Guru Gobind Singh Indraprastha University. The topic is both timely and crucial. As we face unprecedented environmental challenges, the Constitution serves as a vital tool for ensuring justice and governance.

Students of TERI SAS, New Delhi attended the High-Level International Conference on New Technologies for Clean Energy Transition organized by the International Solar Alliance (ISA) on November 5, 2024 at Bharat Mandapam, New Delhi.





Our BBA students recently had the incredible opportunity to visit the state-of-the-art Yakult Danone India manufacturing facility. This visit offered them a firsthand look at the fascinating production process behind one of the world's leading probiotic drinks. This visit not only enriched our students academic learning but also gave them valuable exposure to real-world business operations and sustainable practices.

"Do not wait for extraordinary circumstances to do good action; try to use ordinary situations." - Jean-Paul Richter

Anushka Singh Bhati, a third-semester MSc (Climate Science and Policy) student at TERI SAS won a silver medal in the Double Trap Senior event of the 22nd State Shooting Competition 2024 organized by the Rajasthan Rifle Association.



TERI SAS students from MTech (Renewable Energy Engineering and Management) and MSc (Energy Studies Management) programmes attended the Energy & Digital World (EDW75) organised by Hitachi Energy on October 8, 2024. It was very encouraging session for students.

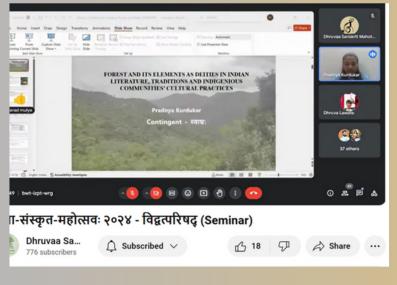




Oikonomia hosted Reclaim X! A dynamic business model competition that challenged participants to unleash their creativity and turn waste to wonder through innovative business solutions.

The under-graduate and post-graduate students of TERI SAS have visited the Indira Paryavaran Bhavan, MoEF&CC with Dr Chandrashekhar Azad Vishwakarma (Faculty coordinator) and Dr Ayushi Vijhani, Department of Natural and Applied Sciences, TERI SAS on October 4, 2024. This visit was part of the 12th CMS VATAVARAN International Film Festival and Forum centred around the theme "Wetlands for LiFE."

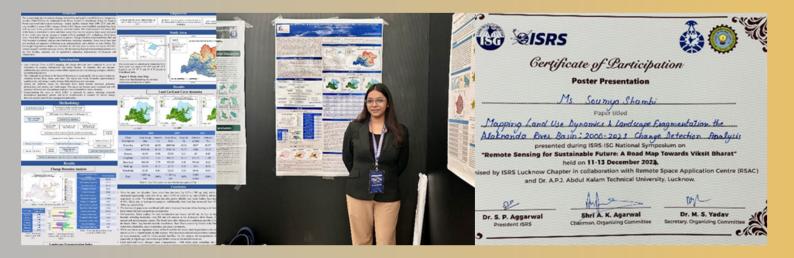




Pradnya Kurdukar, student of MBA Sustainability Management Semester 1, participated in 'Dhruva Sanskrit Festival'-an intercollegiate festival dedicated to connecting sanskrit language to daily life. The theme included various events on intersections of the nature and sanskrit language. She secured a 1st rank in 'विद्वतपरिषद' (Vidvadparishad) (Presentation) competition held virtually. She presented her insights on theme 'देवतारुपेण निसर्गः' (the nature as deity) focusing on 'Forest as deities in Indian mythology, literature and indigenous communities'.

"The more that you read, the more things you will know, the more that you learn, the more places you'll go." —Dr. Seuss

Soumya Shambi, a PhD Scholar, DoPMS, TERI SAS presented a poster at the National Symposium on Remote Sensing for Sustainable future: A road map towards viksit bharat, Organised by - Indian Society of Remote Sensing and Indian Society of Geomatics in association with Remote Sensing Applications Centre-UP and Dr A P J Abdul Kalam Technical University, Lucknow (December 11-13, 2024)



Kavya Agrawal, PhD Scholar presented a Poster at 9th International Congress & Exhibition on Arsenic in the Environment on the theme: Arsenic and Other Pollutants, Water Security and One Health under Global Climate Change Scenario" (As2024) at KIIT, Deemed to be University, Bhubaneswar, Odisha, India organized from October 22-24, 2024.



INSTITUTIONAL CORNER

German Vice Chancellor Visit to TERI SAS campus

A noteworthy event titled "Inspiring Minds, Empowering Change - Navigating the Future Together" was hosted by TERI SAS on October 26, 2024. The highlight of the event was the presence of Dr Robert Habeck, German Vice Chancellor and Minister for Economic Affairs and Climate Action, who engaged in an enriching dialogue with the students. The event also served as a bridge to strengthen the dialogue between Germany and India. By fostering an open exchange of ideas, the interaction highlighted the potential for cross-cultural partnerships in advancing shared goal of sustainable development. After the exchange with the students, Mr Abhay Bakre, Mission Director, National Green Hydrogen Mission, Ministry of New and Renewable Energy (MNRE) and Dr Habeck jointly presented the Indo-German Green Hydrogen Roadmap to the audience.















The TERI SAS Alumni Meet 2024 was held on Saturday, November 30, 2024. The event provided an opportunity for alumni to reconnect with the institute and engage in discussions on sustainability and innovation. The Alumni meet was a part of the three day Aahwaan at our campus from November 28-30, 2024.

Prof. John A Cherry, University of Waterloo, recipient of the 2016 Lee Kuan Yew Water Prize and 2020 Stockholm Water Prize, addressed the students at TERI SAS stating the importance of groundwater for the sustainability of Earth. He also visited the Analytical and Geochemistry Laboratory and appreciated the research done by the group.





On December 7, 2024, the TERI SAS celebrated a milestone with its first-ever alumni meet, REEMilaap'24, marking 15 years of the MTech Renewable Energy Engineering and Management (REEM) programme. Held at the scenic Amphitheatre on campus, the event was a joyous gathering of alumni, faculty, and students, celebrating the shared journey and impact of the REEM community.

Sustainability Hackathon 2024, an initiative by the TERI SAS Alumni community, was organized. We received more than 40 submissions in both school and college categories. The jury members acclaimed all the submissions. The following are the winners:

School Category:

I Prize of Rs 15,000: Dyal Singh Public School, Karnal II Prize of Rs 10,000: Gyan Bharati School, New Delhi

III Prize of Rs 7,500: BCM Arya Model Senior Secondary School, Ludhiana College Category:

First Prize of Rs 15000: Sri Venkateswara, Delhi University.

TERI SAS congratulates all the winning teams and thanks our Alumni for making this a success.

We are delighted to announce the execution of an agreement between TERI SAS and IFCI Ltd. on December 19, 2024 at IFCI Tower, New Delhi.

This agreement marks a significant step in advancing seminal research to develop an ESG tool and framework for financed emissions in Indian banks. As part of the broader MoU on ESG Risk Advisory between TERI SAS and IFCI, this initiative aims to drive innovation and sustainability in financial institutions by integrating ESG principles into risk assessment and decision-making.





Capacity Building Workshop on UAV/Drone Applications in Environment and Natural Resources Management: A Hands-on Training Programme





TERI SAS as one of the exhibitors at the National Biomedical Research Center Conclave (NBRCOM -2024) held at AIIMS New Delhi, on December 2-3, 2024.







Ph.D. AWARDED





Dr Badsha Sarkar

Title: Migration in the Drought-affected Rural Areas in India: An Exploratory Study

Dr Mudita Deepak Upadhyay

Title: Assessment of Socioeconomic Drought and Linkages among Various Types of Droughts



Dr Anuradha Mitra

Title: 5G Technology and Regulation of Spectrum, Access and Net Neutrality in India-An Investigative Analysis

Dr Chhabishwar Prasad Patel

Title: Design and Development of Phase Change Material based Thermal Energy Storage System for Medium Temperature Thermal Application



Dr Himani Singh

Title: Water Accounting Framework for Eastern Himalaya in the context of climate Change

Dr Nipun Bhargava

Title: Photocatalytic oxidation for sustainable management of textile & dyeing industry Wastewater



Dr Prasoon Singh

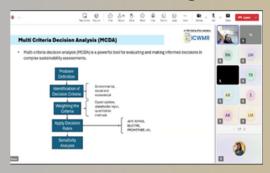
Title: Climate change impact on urban hydrology and assessment of flood in the built environment

IPCA Centre for Waste Management and Research ()



Training on Waste Management Systems: Operations and Maintenance was held from November 11-14, 2024 at TERI SAS with the support from Ministry of Climate Change, Environment and Energy, Maldives. The training was attended by participants, representing 14 island councils of Maldives and Ministry of Climate Change, Environment and Energy, Maldives. During the programme, sessions were held on sustainable waste management and participants were taken for exposure visits to waste management facilities in Delhi and NCR.



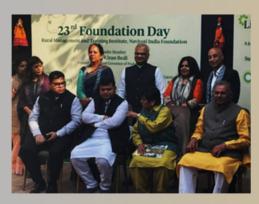


Webinars on 'Water audit: A tool for water resource planning and conservation at municipal Level', 'Water security, footprints estimation and green credits' and 'sustainability assessment': A guide for municipal officials to monitor and understand the impact of waste management practices of the state were organised in this quarter in collaboration with UKPCB.

Prof. Arun Kansal was invited to deliver keynote lecture on "Climate change, water and ecosystems" in the International Conference on Water and Sustainable Development: 2024 (ICWSD: 2024), organised by Indian Nagpur Water Works Association, Centre November 8-9, 2024 at VNIT, Nagpur.



Prof. Arun Kansal was invited to deliver a session on "Cities and Climate Change" at the North Zone Conference organised by Haryana Regional Chapter (ITPI) on October 26, 2024 at Westin Resort, Sohna, District Gurugram.



Prof. Arun Kansal chaired a session on "Water and Heritage Conservation" in the National Conclave on Planning Sustainability & Ecological Restoration at the International Convention Centre, GBU, November 22-23, 2024. Participated in the interactive dialogue on strategies for responsible living and sustainable practices in Gurugram, organized by Navjyoti India Foundation on November 24, 2024.

Prof. Kansal authored a blog 'New paradigms of water sustainability through marketbased instruments'. Authored a blog 'Changing perspectives on waste management approach: Moving from Health to Wealth and back to Health.



Measurement and delineation of 5.668 Acre land at Narela Bawana MSW processing facility, jointly owned by MCD and DMSWSL, using Differential Global Positioning System (DGPS) and Electronic Total Station methods.

SkiLLS 3.0, a unique programme that offers training to students and professionals on valuable, application-based, and relevant skills via online sessions on weekends, was launched in December 2024. The training programmes are scheduled to be held in January and February 2025.

Monitoring of the Main Work of Private Partnership Project for Collection, Transportation, Treatment and Disposal of MSW in 5 zones of MCD is ongoing.

Ms Anugya Singh was invited as an external examiner for practical exam of 'Innovation and Design Thinking' on December 2, 2024 at Lady Irwin College, University of Delhi.

Dr Atul Kumar delivered an invited lecture on "Sector-specific E-commerce Driven Solid Waste: Its Projection and Approaches for Reduction" at CSIR-National Institute of Science Communication and Policy Research (CSIR-NIScPR) on December 23, 2024.

Dr Atul Kumar delivered an invited lecture on "Life Cycle Assessment and its application in Business Management" at XLRI Delhi-NCR on December 13, 2024.





Dr Divya Soman was invited to deliver a lecture on "Scope of Environmental Sciences in the wake of climate change and net zero emissions" at NSS College, Cherthala on November 8, 2024.

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+91 11 71800222 (25 lines)



registrar@terisas.ac.in



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