



# The Institution of Engineers (India)

## IEI NEWS

*"A Century of Service to the Nation"*



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### Chairman Desk



The UP state centre of institution of Engineers India, the premier States centre of the country which celebrated its centenary and is 102 plus year old. It started as a humble begins in 1921 has grown and is the pride of the nation. Many illustrious engineers holding this post before me, it's a great honour for me to be the chairman of this great institution. We represent 15 engineering branches namely Agriculture, Aerospace, Architecture, Civil, Chemical, Computer, Electrical, Electronics and telecom, Environmental, Material engineering Mechanical, Mining, Marine and Textile engineering. our members have diverse engineering backgrounds with rich experience which adds to its greatness. UP State centre will continue to strive for excellence and prepared to take on new challenges.

Wishing everyone a great day

Er. Satya Prakash, FIE  
Chairman



26<sup>th</sup> January 2025, Republic Day Celebration at IEI, UP State Centre, Lucknow Today on 26th January 2025, Republic Day was celebrated with great enthusiasm by the Institution of Engineers U.P. State Center Lucknow. On this occasion, Shri V.B. Singh, National Council Member and National Vice President, hoisted the flag and congratulated all the guests on Republic Day and expressed his views on this occasion. He appealed to all engineers to actively contribute to the development of the country so that India becomes a fully developed nation by the year 2050. Today we are celebrating the 76th Republic Day, which marks the adoption of our Constitution on 26 January 1950. This day becomes very special because on this day we had made our own constitution by breaking away from the rules and regulations of the British and implemented it. On this occasion, Shri Jagmohanlal Jaiswal addressed the gathering and welcomed all the guests present. On this occasion, Mr. H.S. Morya, Mr. Vinod Saxena, Mr. D.N. Sharma, Mrs. Neelam Srivastava also addressed everyone. In the end, the honorary secretary of the organization, Mr. V.P. Singh expressed his gratitude.



Cyber Security and Banking Safety, keynote speaker of the event was Dr. Upendra Kumar, Chairman Er. Satya Prakash, Imm Past Chairman & Council Member Er. Masarrat Noor Khan, Honorary Secretary Er. V P Singh.

3<sup>rd</sup> Feb, 2025 One Day Seminar Today, a technical seminar on "Cyber Security and Banking Safety" was organized by The Institution of Engineers (India), UP at engineers Bhawan State Centre, River Bank Colony, Lucknow.

Details of the Sessions : "CYBER SECURITY & BANKING SAFETY" The keynote speaker of the event was Dr. Upendra Kumar, Assistant Professor, Lucknow. He also emphasized that consumers should be aware of dark patterns, dark patterns are deceptive design techniques used by online services and businesses This is done to manipulate users into choosing options that benefit the business. He also briefed about the key points of TRAI, cyber fraud initiatives like DND app, pre-call warning messages, reporting mechanism. He also shared various initiatives of the Government of India to enhance cyber security. He also explained about the complaint redressal mechanism and filing of complaint in case of any cyber fraud. Key challenges in cyber security include: phishing attacks, insider threats, Internet of Things (IoT) vulnerabilities, cloud security issues, sophisticated AI-powered attacks, social engineering, rapidly evolving threat landscape, shortage of skilled cyber security professionals. Scarcity and complex data Key challenges in cyber security include: phishing attacks, insider threats, Internet of Things (IoT) vulnerabilities, cloud security issues, sophisticated AI-powered attacks, social engineering, rapidly evolving threat landscape, efficient The shortage of cyber security professionals is compounded Management of data on different platforms: If there is an app like Any Desk or Screen Share which will give all the information of your phone to the unknown person. Do not scan the QR code sent by anyone with your mobile phone. Always remember that the QR code is scanned only to make payment, not to receive payment. HDFC Bank Senior Vice President Shri. Deepak Chopra said that never share OTP on unknown calls or messages. Abhishek Srivastava representing Consumer Guild and Consumer Coordination Council New Delhi pointed out that the progress of the country is impossible

## Green Renewable Electronics for Environmental Nurturing and Sustainability (GREENS)

04 & 05 February, 2025



### ALL INDIA SEMINAR (GREENS) 4<sup>TH</sup> & 5<sup>TH</sup> Feb, 2025



All India Seminar on "Green Renewable Electronics for Environmental Nurturing and Sustainability" (GREENS) on 4<sup>th</sup> & 5<sup>th</sup> Feb, 2025, by Institution of Engineers India U. P. State Centre Lucknow in Collaboration with Institute of Engineering & Technology Sitapur Road, Lucknow (UP) India, On this occasion, the Chief guest of The ceremony was Prof. Jai Prakash Pandey Hon'ble Vice Chancellor, Dr. A.P.J. Abdul Kalam Technical University (AKTU) is a renowned public state university established



without cyber security and thanked IET State Center Lucknow for inviting all the important stakeholders on one platform and for tackling this menace. for all stakeholders Participation is important. He shared important provisions of the Information Technology Act, cyber security and cyber crime under the Indian Judicial Code. HDFC Bank Asst. vice president Shri. Wasif Rasool, who explained how banks are taking measures to secure the customers, also what precautions required to prevent frauds. Sr. vice President Shri. Deepak Chopra also explained that cyber security knowledge is need of hour for banks as well as customers. New cyber fraud and AI-supported anti-fraud technologies increase security challenges in 2024. Not sharing OTPs, avoiding anonymous video calls and job phishing scams, reporting digital arrest accused and carefully checking customer service numbers are important steps for 2025. Finally he advised that if you become a victim of financial fraud then without wasting any time register your complaint immediately on cyber helpline number 1930 and for other crimes report it to the local police station or 112.

Extract of Welcome address by Chairman, Host Centre: At the beginning of the program, President of the organization Shri. Satya Prakash welcomed the guests and expressed his views on the subject matter. On this occasion, the coordinator of the program Shri. Masarrat Noor Khan, FIE SCC Member IP Chairman also expressed his views and Introduced the keynote speaker and conducted the program successfully.

Extract of Vote of Thanks by Honorary Secretary, Host Centre: Finally Shri V.P. Singh Honorary Secretary expressed vote of thanks. A large number of people participated in the program. It was concluded with lunch for participants.

India's 11th President, Dr. A.P.J. Abdul Kalam, the university is committed to fostering excellence in technical education, research, and innovation was, We celebrate Green Day to respect and celebrate our nature. We must celebrate Green Day for the growth of nature. Nature always provides us with those things that no one can ever give us, such as fresh air, oxygen, peace, summers, winters, etc. Even though these things are highly essential for living our life. We celebrate Green Day to spread wareness among people to protect our nature. It is as necessary as our life. We live on our mother Earth, all living beings survive here, and the Earth gives us everything that a living being needs to survive till the end. in 2000 by the Government of Uttar Pradesh Named in honor of



Details of the Sessions:- Prof. Dr. Vinit Kansal Director IET, has also spoke about the need of the hour for going green. It provides us with food, water, and many other things. We also have a duty towards it that we must follow. We should protect our nature, which consists of plants, the environment, trees, rivers, seas, lakes, oceans, climate, etc. To protect it, the huge step we need to take is to try not to pollute it, keep our surroundings neat, and plant as many trees as we can. Our Earth is being polluted today to extreme levels due to industrialisation, deforestation and climate change, it is our duty to protect the planet and leave it in a better condition for the future generations. The Guest of Honour, Mr. Ashok Kumar Rajput Member, Power System Ministry of power, Central Electricity Authority was, The National Seminar on “Green Renewable Electronics for Environmental Nurturing and Sustainability” (GREENS) aims to address the urgent need for sustainable practices in electronics, amid rapid technological progress and environmental challenges. It will unite researchers, industry experts, policymakers and educators to collaborate and explore for advancements in green electronics. Key topics include Eco-Friendly Materials & Manufacturing, Energy Efficiency, Renewable Energy Integration, Lifecycle Assessment, and E-Waste Management. Additionally, it will examine policies and regulatory frameworks supporting sustainable practices and focus on incentives for Eco-Friendly Innovations. By fostering collaboration, GREENS seeks to drive the transition towards sustainable electronics, providing participants with insights into the practical steps needed to achieve environmental goals in the electronics industry. Through discussions on policies, case studies, and innovative solutions, the seminar aims to inspire actionable steps toward environmentally responsible electronics and foster collaboration for a sustainable future. Sustainable Power Generation and Management ,Energy-Efficient Electronics Design Role of Microelectronics in Sustainable technology , Role of Communication in Design Energy Efficient Electronics, Renewable



Energy Integration and Storage Systems , Green Materials and Recycling in Electronics ,Smart Grids and Micro grids ,Use of AI/ML in Green Technology , AI and IoT in Energy Conservation , Electric Vehicles and Sustainable Transportation Systems , Photovoltaic and Solar Power Systems , Sustainable Electronics Manufacturing Processes , Policy, Regulation, and Education for Green Electronics, Green and Smart Cities. Seminar was in hybrid mode, people joined on line from usa Netherlands and Ethopia apart from other Cities. This was followed by our Chief Patron the President Address by Er. Satya Prakash, Chairman, The Institution of Engineers (India), U. P. State Centre , Lucknow Er. Vijaya Pratap Singh, Honorary Secretary, IEI UPSC, Lucknow Prof. Neelam Srivastava, Convenor, Member ET, UPSC, Lucknow Er. N. K. Nishad Co-Convenor, Member ET, UPSC, Lucknow Prof. Subodh Wariya, Member, Co-Convenor IEI, IET, Lucknow Er. Masarrat Noor Khan, Immediate Past Chairman IEI UPSC LKO Dr. Jaswant Singh, Immediate Past Honorary Secretary,UPSC LKO Prof. Bharat Raj Singh, MC, IEI, UPSC, Lucknow Er. Sudhir Kumar Verma, Member EL, IEI, UPSC, Lucknow Dr. Seetha Lakshmi Dean PG AKTU Lucknow Dr. Anurag Tripathi Dean UG AKTU Lucknow Prof. Arun Kumar Tiwari, Dean Alumni, AKTU, Lucknow Dr. Pragati Shukla, ASD, IET Lucknow Dr. Pushkar Tripathi, EED, IET, Lucknow Dr. Nitin Anand Shrivastava, EED, IET Lucknow. INTERNAL ADVISORY COMMITTEE:- Prof. Virendra Pathak, Director, CAS, AKTU Dr. Bhartendu Nath Mishra, Dean Innovation, AKTU Prof. Girish Chandra, Head CSD, IET Lucknow Prof. Sanjay Srivastava Head, ASD & Dean Academics IET Lko Prof. Shailendra Sinha, Head MED & Dean PG IET Lucknow Prof. Arunima Verma, EED, IET, Lucknow Dr. R P Ram, Head CHED, IET Lucknow

TECHNICAL COMMITTEE:- Dr. RCS Chauhan ECD, IET Lucknow Dr. Rajiv Kumar Singh ECD, IET Lucknow Er. Amit Kumar ECD, IET Lucknow Dr. Divya Sharma ECD, IET Lucknow Er. Shahneela Jamal Kidwai ECD, IET Lucknow Er. Pallavi Pant ECD, IET Lucknow Er. Jaspreet Kaur, ECD, IET, Lucknow.

Extract of Welcome address by, Host Centre:- More than 300 people attended the seminar On this occasion, the coordinator of the program Prof. Neelam Srivastava, Member ET, IEI, SCC Member expressed his views and Introduced the keynote speaker and conducted the program successfully.

Extract of Vote of Thanks by Honorary Secretary, Host Centre:- Finally Shri V.P. Singh Honorary Secretary expressed vote of thanks. A large number of people participated in the program.



## Green Renewable Electronics for Environmental Nurturing and Sustainability (GREENS)

04 & 05 February, 2025



**GREEN MAGAZINE**







**Institution of Engineering and Technology ,  
Lucknow**



**WELCOME YOU**  
**ALL INDIA SEMINAR ON GREENS**

**Valedictory & Felicitation Ceremony**



**Er. V.B Singh**  
President, IEI



## Interpersonal Relationship for technocrats.

**Prof. (Dr). Bharat Raj Singh, Chief Guest Er. M M Khan, Er. S K Verma, Honorary Secretary Er. V P Singh.**

Institution of Engineers (India), Uttar Pradesh Centre, Lucknow



## WORLD ENGINEERING DAY.

**IMM PAST Chairman, Er. Masarrat Noor Khan, Chief Guest Prof. (Dr) R C Srivastava, Dr. Jaswant Sigh IP Hony. Secretary**

World Engineering Day 04<sup>th</sup> March 2025 Chief Guest Prof.(Dr) R C Srivastava Former VC, Rajendra Prasad Central Agricultural University, Pusa Samastipur, Bihar , Dr. Jaswant Sigh IP Hony. Secretary & Converner, Er. Masarrat Noor Khan IP Chairman & Council Member, Er. Jamal Nusrat

organized “Interpersonal Relationship for technocrats” on 15th February 2025 at Engineers Bhawan, River Bank Colony Lucknow. At the beginning of the program, former President of the Institute, Prof. Dr. Bharat Raj Singh welcomed all the guests.

Details of the Sessions:- On this occasion to, The Keynote Speaker of this program was Er. M M Khan former Chief Engineer, HINDALCO Interpersonal relations are important for our physical and emotional well-being. They can help us feel happier, more secure, respected and less lonely.

- Good Interpersonal Relations help us navigate our world, face challenges, celebrate wins and overcome stressful situations.
- Good Interpersonal Relations generate a sense of openness, generosity and goodwill.
- Good Interpersonal Relations are one of our greatest blessings

Research on successful individuals shows that they attribute their success to: 85% to interpersonal skills and 15 % to technical skills  
WHAT IS INTERPERSONAL RELATIONSHIP? An interpersonal relationship is a strong, deep, close association or acquaintance between two or more people.



This includes in it - family, kinship relations, friends, colleagues, neighbours, relations with associates, and places of worship.

At workplace

The workplace retains a central role in many people’s lives. People, in general, spend more time at work than on any other daily



**Past Present & Future of Power Generation, Imm Past Chairman, Er. Masarrat Noor Khan, Chief Guest Er. Girish, Honorary Secretary Er. V P Singh, Er. S K Verma.**

Today on 29<sup>th</sup> March 2025, a one day seminar was organized by the Institution of Engineers (India), UP State Center on the topic ‘Past Present & Future of Power Generation, at Engineers Bhawan, River Bank Colony, Lucknow.

Details of the Session:- On this occasion, The Chief Guest of the program, was Er. Girish Ex Director Technical, UPRVUNL said India’s power generation in 1947 was quite modest, with a total installed capacity of approximately 1,362 MW . The power mix was dominated by hydroelectric power, with around 508 MW of installed capacity, followed by coal-based thermal power with around 756 MW .India’s power generation capacity reached 446,190 MW as of June 2024, with a significant increase in renewable energy sources <sup>1</sup>. In fact, renewables accounted for 71% of the 26 GW power generation capacity added in FY 2023-2024, with solar energy dominating the additions . Here’s a breakdown of India’s power generation capacity as of June 2024:

- Total Installed Capacity: 446,190 MW <sup>1</sup>
- Coal-based Power: 2,10,969 MW <sup>1</sup>
- Renewable Energy: 1,95,013 MW <sup>1</sup>
- Hydro Energy: 47 GW (as of FY 2023-2024) <sup>2</sup>



activity. It is vital that individuals within any organization, feel connected & supported by peers, subordinates, and leaders.

Good interpersonal relationships at workplace : Fosters a positive culture due to increased levels of trust and respect among colleagues. Improve employee morale, productivity, teamwork, and overall job satisfaction

At Home front:

When we have peace and love at Home and with the people closest to us, we have a better chance of being creative, productive, happy and successful in other areas of life.

To-days citizens, due to poor interpersonal relations, confront threats in life, such as:

- poor relations with kinds, children, neighbors,
- threats due to cultural pollution,
- due to religious biases,
- scarcity of resources,
- unclean environment,
- corruption, etc.

Extract of Welcome address by, Host Centre:-At the beginning of the program, former Chairman of the Institute, Prof. Dr. Bharat Raj Singh welcomed all the guests. Shri SK Verma, former Managing Director, Power Corporation, SCC Member conducted the program efficiently. On this occasion, Mr. Anil Gupta, SCC Member, Mr. GS Maurya, Member, Mr. J B Singh, Member, Mr. Niranjana Singh, Member, Mr. Anand Jain Member, Mr. Suresh Bajpai, Mr. Jamal Nusrat, Mr. N C Mittal, SCC Member, Mr. Vinod Saxena etc. were present.



The Indian government aims to increase the power generation capacity to 5 Times (2,100 GW) by 2047 to meet the anticipated demand of 708 GW <sup>3</sup>. India's per capita power consumption is around 1,183 kWh, as of 2023 <sup>1</sup>. To put this into perspective, the world's average per capita power consumption is significantly higher, with countries like the United States having a per capita power consumption of around 12,077 kWh <sup>1</sup>.

Extract of Welcome address by Host Centre:-At the beginning of the program, the IP Chairman of the organization, Engr. Masrat Noor Khan welcomed the guests and called for thinking about the lessons from the past, challenges of the present times and new technologies of the future and expressed his views on the subject matter. The convener of the event was Er. S. K Verma, FIE SCC Member, he told about the subject matter and also introduced the Keynote Speaker Er. Harish Chandra Verma, Ex GM, NTPC, Er. Rakesh Chandra Srivastava, Ex CGM UPRVUNL, and conducted the program successfully. On this occasion, Er. J B Pandey, Er. G M Pandey, FIE Member, Er. N K Nishad, FIE Member, Er. Ashutosh Dixit, Er. K V Gupta, Er. C S Azad, Er. Jagmohanlal Jaiswal, Er. Purshottam Keswari, Er. Dr. Deep Kumar Gupta, Er. LGP Singh, Er. Dr. Jaswant Singh, Er. Prof. Jamal Nusrat, Er. H S Maurya, Er. Keshav Deo, Er. Anand Jain, Er. Prof. Neelam Srivastava, Er. R C Srivastava, Er. Radhey Shyam, Er. D K Srivastava, Er. Ajay Kumar, Er. R D Pal, Er. Gajanand Pandey, etc. were present.

Extract of Vote of thanks by Honorary Secretary, Host Centre:- In the end, Honorary Secretary of the organization, Vijay Pratap Singh expressed his gratitude to all the distinguished guests and lunch has also been organized.







## World water day.

The Institution of Engineers (India), UP State Centre, Lucknow celebrated World Water Day with the theme 'Glacier Preservation' on 22/03/2025 at Engineers' Bhawan, River Bank Colony, Lucknow. 'Glacier Preservation' emphasizing the critical role glaciers play in sustaining the global water supply.

Details of the Sessions:- Glaciers are melting rapidly, disrupting water flows and affecting millions through floods, droughts, and rising sea levels. Mitigating climate change and adapting to the loss of glaciers is essential to protect communities and ecosystems. The Chief Guest of this program was Prof. Jamal Nusrat Retd. Prof. Walimi & SE UP, Irrigation was emphasizes the need for global action to manage melt-water sustainably and reduce emissions, securing vital water resources for the future. The theme highlights the essential role glaciers play in providing freshwater to millions of people. Glaciers store roughly 70% of the world's fresh water, serving as critical sources for drinking water, agriculture, and hydropower. However, the rapid retreat of glaciers, driven by climate change, threatens these vital resources. The theme urges global action to protect glaciers, which are not only crucial for water supply but also for sustaining the ecosystems dependent on glacial melt-water. Efforts to preserve glaciers require a multifaceted approach, including reducing greenhouse gas emissions, promoting sustainable energy, and implementing policies aimed at conserving these natural resources. Technological advancements, such as satellite monitoring and climate models, are essential in assessing glacier health and predicting future changes. Conservation initiatives in glacier-rich regions are also vital in mitigating human impact and ensuring the continued flow of glacial water. By prioritizing glacier preservation, we secure vital freshwater, protect biodiversity, and enhance the resilience of vulnerable communities against climate change.





Extract of Welcome address by, Host Centre:- At the beginning of the program SCC Member and Former MD Dakshinchal Vidyut Vitran Nigam Limited of the Institution of Engineers, UP State Centre Shri Sudhir Kumar Verma Welcomed all the Visitors. The Convener of the event was Shri K P Tripathi, SCC Member, he told about the subject matter and also Introduced. On this occasion, Er. Anil Gupta, SCC Member, Er. N K Nishad, Member, Er. H C Maurya, Member, Er. Gajanand Pandey, Member, Er. LGP Singh, Member Er. B Sharma, Er. Ahmad Hussain, Er. Radhey Shyam, Er. Jagmohan lal Jaiswal etc. were present. The program concluded with the vote of thanks by Shri. Vijay Pratap Singh, Honorary Secretary, IEI, UP State Centre, Lucknow. A large number of audience participated

