





IIEST, Shibpur

From HoD's Desk

Dear All,



I am proud to share the second edition of the newsletter "Bidyut" of the Department of Electrical Engineering. In today's fast-paced digital age, newsletters are more than just a summary of updates. They are powerful tools that help brands connect with their audience, convey their story, and drive engagement.

The Department of Electrical Engineering was established in the year 1912. The department offers an 8-semester undergraduate B. Tech. course, a 10-semester dual degree (B. Tech. and M. Tech.) course and 4-semester postgraduate M. Tech. degree course in Electrical Engineering. The department also offers research programs leading to a Ph.D. degree. It produced its first batch of graduate electrical engineers in 1936. The postgraduate degree was first offered in 1955 and the first Ph.D. Scholar from the department came out in 1959. The major M. Tech. Specialisations are Control and Industrial Automation, Power and Energy Systems and Power Electronics, Machines & Drives.

Post-independence, when the nascent nation had just started building the power plants that have been instrumental in realizing the dreams of modern India, many of the visionaries, planners and implementers were the students of this department. The present focus of the department is to include several modern topics in its UG/PG curricula and to focus on the cutting edge research in line with the need of our mother land.

This version of the Newsletter includes major events and programs, Sponsored research projects, Invited Talks, Research Collaboration, Consultancy Projects, Patents, Journal and Conference publications, and Student activities.

I look forward more and more contribution from all stakeholders and more eventful version of newsletter ahead.

Thanks and regards,

Prof. Anindita Sengupta

Events & Programs

Seminar/ Symposium Organized

Dr. Anirudh Nath and Dr. Mousumi Mukherjee have organized a 5-Day National Symposium on Bridging Academia and Industry for NextGen Technologies in Electrical Engineering (AI-NxtGen-EE 2024) from 03/12/2024 - 07/12/2024 at IIEST Shibpur sponsored by ANRF.



Dr. Roshni Maiti and Dr. Pritam Paral have organized Anusandhan National Research Foundation (ANRF) Co-Sponsored 5 Days International Symposium on 'AI-Driven Cyber-Physical Systems-A Hands on Course (AI-CPS)', technically Co-Sponsored by IEEE Joint CSS-IMS Kolkata Chapter from 18-22 Feb 2025 at IIEST, Shibpur.



Events & Programs

Invited Talk Conducted

- Prof. Chandan Kumar Chanda and Dr. Roshni Maiti have conducted an invited technical lecture on "Sensors and Actuators related Research Activities at Macquarie University, Australia" by Dr. Subhas Mukhopadhyay, Professor, School of Engineering, Macquarie University on January 22, 2025.
- Dr. Anirudh Nath has conducted an invited talk on "Battery Packs & Battery Management System" by Ms. Tharrini Raj on 7th March 2025.
- Dr. Anirudh Nath has conducted an invited talk on "Grid Stability and Operation Challenges with Changing Dynamics of Power System Due to Renewable Integration and Way Forward" by Mr. Alok Pratap Singh, Chief Manager, GRID INDIA on April 03, 2025.
- Lecture program jointly organized by Department of Electrical Engineering, IIEST and GAABESU on "An Overview On Transformers And Its Uses" on 24th January 2025.



• Upcoming Events

- A workshop titled "5-day National Workshop on Intelligent Embedded Controllers - the way forward" will be organized from 8th July - 12th July, 2025.
- A workshop titled "Integrating HPC, SLURM, CUDA, and Cybersecurity for AI in Power Utilities (IHSCCP-2025)" will be organized from 14th -19th July, 2025.
- A Short Term Training Programme (STTP) on "Applied Control & Industrial Automation (ACIA-2025)" will be organized from 26th -30th Aug, 2025.

Sponsored Research Projects

- **Title:** Going Remote Solar Energy for Lighting and Hygienic Sanitation with Smart Exhaust system for Rural Applications
 - Investigators: Dr. Konika Das (Bhattacharya) &
 Dr. Chandan K. Chanda
 - Agency: DST-TMD-CERI
- Title: Design and development of magnetic core power inductor (HF-Mag)
 - Investigator: Dr. Mainak Sengupta
 - Agency: MEITY

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- Title: Design and development of WBG device based high current converters for industry applications
 - Investigator: Dr. Mainak Sengupta
 - Agency: MEITY
- Title: MEMS for electric machines and drives (MEMS Machines)
 - Investigator: Dr. Mainak Sengupta
 - Agency: MEITY
- Title: Design and development of Multilevel Inverter based Distributed Power Flow Controller(DPFC) FACTS for a grid integrated system with renewable energy sources
 - Investigator: Dr. Atanu Banerjee
 - Agency: CPRI
- > Title: Data-driven methods in systems and control
 - Investigator: Dr. Mousumi Mukherjee
 - Agency: DST

Ongoing Research Activities



Implementation of a Data Driven Controller on Rotary Servo Flexible Link System interfaced with SIMULINK Real Time Workshop



Experimental Setup of the single-axis controlled repulsive-type magnetic bearing



Experimentations in NaMPET project



Numerical Relay in the Power System Protection Lab



Experimental Set-up in Process Control & Instrumentation Laboratory



Experimental Setup of the Magnetostrictive Energy Harvester using Shaker and other accessories



Experimental Set-up in Smart Control System Laboratory (MAGLEV Plant)



Simulation Laboratory in Electrical Engineering

Vol. 1 ls. 2

Invited Talks Delivered

Dr. Reetam Mondal delivered an invited talk on "Fractional Order Control –A Tutorial in MATLAB" at a Faculty Development Program on "Integrating Innovation, Research and Industry Trends in Electrical Engineering" held on 07th Dec, 2024

Dr Abhinandan De delivered an invited talk on "Application of AI-ML in Power and Energy Sector" in the FDP on "Harnessing AI and ML for Social Impact & Smart Industries" organized by National Institute of Technology, Patna, in collaboration with Techno India College, Salt Lake. during February 24 - 28, 2025

Dr Abhinandan De delivered an invited talk on "Machine Learning Paradigm in Power and Energy Sector" in the National Symposium on "AI-Driven Cyber-Physical Systems" organized by Department of Electrical Engineering, IIEST Shibpur during February 18-22, 2025.

Dr Abhinandan De delivered an invited talk on "Applications of AI/ML in Power and Energy Sector - Benefits and the Challenges" in the FDP on "Application of AI in Electrical Vehicle: Challenges And Opportunities" organized by University of Engineering and Management, Kolkata, January 20 - 25, 2025.

Dr Abhinandan De delivered an invited talk on "Grid Integration of Renewable Sources - Challenges and Remedies" in the AICTE ATAL FDP on "Energy Sustainability & Climate Change" organized by Tripura Institute of Technology, Agartala during January 16 – 21, 2025.

Dr Abhinandan De delivered an invited talk on "ML Paradigm in Power and Energy Sector" in the FDP on "Emerging Technologies in Power Energy: Shaping the Future of Sustainable Solutions" organized by Department of Electrical Engineering, Dream Institute of Technology during 19 – 23 November, 2024.

Dr Abhinandan De delivered a Keynote Speech on "ML Paradigm in Power and Energy System" in the "International Conference on Optimization with Artificial Intelligence and Soft-Computing, 2024 (ICOAISC- 2024)", organized by NIT Nagaland, October 2024.

Dr Mousumi Mukherjee delivered an invited talk titled "Data-based stability analysis of strongly autonomous nD systems" at the 10th Indian Control Conference (ICC-10) at IISER Bhopal in Dec 2024.

Dr Mousumi Mukherjee delivered an IEEE CSS/WiE invited talk titled "Integer Programming through the lens of Algebraic Geometry" at IIT Kharagpur on 25th March, 2025.

Dr Roshni Maiti gave a Lecture and Tutorial on 'Fuzzy Controller design for Physical systems and its stability analysis' in the One-Week GIAN Course on "Resilient Control of Cyber-physical Systems," Organized by Department of Electrical Engineering, MNNIT, Allahabad, during March 24-28, 2025.

Dr Anirudh Nath delivered an invited talk at Cyber-Physical Systems & Control: Bridging the Gap to Future Technologies (CPSC-2025) on Jan 23, 2025.

Research & Collaborations

PhD Thesis Submitted and Degree Awarded

PhD Degree Awarded

- PhD degree was awarded to the scholar Rupanjali Bhattacharjee for Development of
 Efficient Blocking-Unblocking Schemes for Distance Protection through Reliable
 Identification of Power Swing and Fault on December 2024, under the supervision of Dr.
 Abhinandan De, Department of Electrical Engineering, IIEST, Shibpur.
- PhD degree was awarded to the scholar Subhamoy Das for Modelling and Analysis of a Passive Magnetic Fault Current Limiter on November 2024, under the supervision of Dr. Amalendu Bikash Choudhury, Department of Electrical Engineering, IIEST, Shibpur.
- PhD degree was awarded to the scholar Hiranmay Samanta for Design and Development of Efficient Interfaces and Energy Management Systems for Smart Microgrid on November, 2024, from SAMGESS under the joint supervision of Prof. (Dr.) Konika Das (Bhattacharya), Department of Electrical Engineering, IIEST, Shibpur.
- PhD degree was awarded to the scholar Dipanjan Bose for Study on Power System Resiliency Assessment on November, 2024, under the supervision of Prof. (Dr.) Chandan Kumar Chanda, Department of Electrical Engineering, IIEST, Shibpur.
- PhD Degree awarded to scholar Subhasis Bandopadhyay at NIT Meghalaya on Design and Development of Improved Switching Techniques for Reduction of Harmonics in Grid Connected Advanced FACTS Devices" on November,2024 under the supervision of Prof. (Dr.)Atanu Banerjee, Department of Electrical Engineering, IIEST, Shibpur.
- PhD Degree awarded to scholar Manish Kurre at NIT Meghalaya on Development and Analysis of Induction Heated Autoclave System Driven By Various Multilevel Inverters on March,2025 under the supervision of Prof.(Dr.) Atanu Banerjee, Department of Electrical Engineering, IIEST, Shibpur.

PhD Thesis Submitted

- The scholar Dipankar Chatterjee, working under the supervision of Dr. Suvarun Dalapati submitted his thesis on 12.11.2024.
- The scholar Jayanta Piri, working under the supervision of Prof. Mainak Sengupta submitted his thesis on 05.03.2025

International/ National collaborations



Revenue Generation Avenues

Consultancy Projects

| Sl. No. | Name of the Investigator | Title of the project and duration (Start and end date) | Amount sanctioned |
|------------|-----------------------------|--|----------------------|
| 1. | Dr. Abhinandan De | "Technical Audit of DRV Passenger Ropeway, Darjeeling" from Conveyor & Ropeway Services Pvt. Ltd (28.02.2025 to 02.03.2025) | Rs. 2.05 lakh |
| 2. | Dr. Abhinandan De | "Inspection and assessment of Electrical works of the newly constructed (B+G+10) Administrative cum Academic building of West Bengal University of Health Sciences" (February – March, 2025) | Rs. 12.5 lakh |
| 3. | Dr. Suvarun Dalapati | Design and Development of HVDC and FACTS based Experimental Dynamic Model Set-ups | Rs. 5.9 lakh |



Technical Inspection of Newly Constructed Building of WBUHS by Dr. Abhinandan De and Dr. Amal Barman from EE with other faculty members of IIEST, February 2025.

Technical Audit of Darjeeling Ropeway by IIEST, March 2025 (Dr. Abhinandan De from EE)



Journal Publications

- S. Chanda, S. Maity, and A. De, "A Differential Evolution modified Quantum PSO Algorithm for Social Welfare Maximisation in Smart Grids considering Demand Response and Renewable Generation," Microsystem Technologies, vol. 30, no. 12, pp. 1519–1536, Dec. 2024, doi: 10.1007/s00542-022-05399-1.
- M. Pramanik, U. Roy, M. P. Anjana, K. D. Bhattacharya, and C. K. Chanda, "Finite element method based performance assessment of existing electrical apparatus in the distribution network in the backdrop of increasing renewable penetration," Microsystem Technologies, pp. 1–9, Oct. 2024, doi: 10.1007/s00542-024-05779-9.
- C. Dolui and D. Roy, "Advancement of bridge health monitoring using magnetostrictive sensor with machine learning techniques," Nondestructive Testing and Evaluation, pp. 1–22, Oct. 2024, doi: 10.1080/10589759.2024.2417841.
- S. Dasadhikari, D. Roy, and S. Yamada, "Galfenol-Based Magnetostrictive Energy Harvester for Structural Health Monitoring of Bridges Under Vehicular Loads," Energy Technology, no. 2402039, Feb. 2025, doi: 10.1002/ente.202402039.
- D. Bose, A. Alayil, S. K. Chawrasia, D. Roy, and C. K. Chanda, "Resiliency improvement through grid forming inverter," Microsystem Technologies, Oct. 2024, doi: 10.1007/s00542-024-05803-y.
- A. K. Mondal, T. Santra, D. Roy, and S. Yamada, "An investigation on NGR failure in Indian smart cities while replacing the existing overhead lines by underground cables," International Journal of Emerging Electric Power Systems, Oct. 2024, doi: 10.1515/ijeeps-2024-0105.
- S. Dey and D. Roy, "Performance Comparison of Different types of Axial MEH through Finite Element Analysis," Journal of Technology, vol. 13, no. 4, Mar. 2025.
- [8] S. Ghosh, P. Paral, A. Chatterjee, and S. Munshi, "A novel 2D robust LPP-based approach using density-based neighborhood granulation for challenging visual cue detection," IEEE Sensors Journal, vol. 25, no. 5, Mar. 2025, doi: 10.1109/JSEN.2025.3529208.
- P. Paral, S. Ghosh, S. K. Pal, and A. Chatterjee, "Adaptive non-homogeneous granulation-aided density-based deep feature clustering for far infrared sign language images," IEEE Transactions on Emerging Topics in Computational Intelligence, vol. 9, no. 2, Apr. 2025, doi: 10.1109/TETCI.2024.3510292.
- P. Yadav, J. Piri, A. Sengupta, and M. Sengupta, "Harmonics estimation of power signals in presence of non-Gaussian and non-stationary noise," International Journal of Control, pp. 1–12, 2025, doi: 10.1080/00207179.2025.2464222.
- D. Chatterjee, C. Chakraborty and S. Dalapati, "Current Sensor-Less Dead Time Distortion Compensation in Single-Phase PWM Inverter," in IEEE Transactions on Industrial Electronics, vol. 72, no. 5, pp. 4696-4709, May 2025, doi: 10.1109/TIE.2024.3457694.
- S. Kumar, A. B. Choudhury, H. S. Bhattacharyya, and C. K. Chanda, "Comparison of different data-driven methods for estimating the state of charge of lithium-ion batteries," Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, vol. 47, no. 1, pp. 2564–2583, 2025, doi: 10.1080/15567036.2025.2452248.
- B. Dey, S. K. Pandey, and A. Sengupta, "Design of modified fractional order PID controller for cart inverted pendulum system," International Journal of Dynamics and Control, vol. 13, no. 4, Apr. 2025, doi: 10.1007/s40435-025-01643-4.

Conference Publications

- Ranajay Paul, Debanjan Dhara, Suvarun Dalapati, A Fast Sampling-Based Synchronization Technique for Single-Phase Grid Connected Inverter, Paper presented at the conference IEMENTech 2025, 2025
- Debanjan Dhara, Ranajay Paul, Suvarun Dalapati, One Cycle Controlled Three Phase Inverter, Paper presented at the conference IEMENTech 2025, 2025
- Subhajit De, Mainak Sengupta, Suvarun Dalapati, Design studies on a scaled prototype of an existing Fractional Slot Concentrated Winding (FSCW) IPM AC machines, Paper presented at IEEE INDICON-2024, 2025
- Sudipta Basu Pal; Arnab Das; Subho Saha; Rajiv Ganguly; Konika Das Bhattacharya; Chandan Kumar Chanda Solar PV Cleaning System at Eastern Indian Climatic Zone; Published in: 2024 IEEE Calcutta Conference (CALCON); 14-15 December 2024; ISBN Information:DOI: 10.1109/CALCON63337.2024.10914250Publisher: IEEE Conference Location: Kolkata, India
- Modelling and Impact Assessment of Renewable-based Bidirectional Power Flow on the Performance of Distribution Transformers , Moumita Pramanik, K.Das (Bhattacharya), C.K Chanda R.Basak; 39th Indian Engineering Congress held at Hotel Novotel, Kolkata during 20-22 December 2024 by The Institution of Engineers (India)
- Low-Cost Self-Cleaning System for Efficiency Enhancement of Onboard Smart Nanogrid in Green Transport, Moumita Pramanik, Sudipta Basu pal, Arnab Das, H. samanta, D. Bose, K.Das (Bhattacharya), C.K Chanda, R.Basak ; 39th Indian Engineering Congress held at Hotel Novotel, Kolkata during 20-22 December 2024 by The Institution of Engineers (India)
- "Agro-Wastes for Biogas-based Sustainable Green Electrification in India: A Data-Driven Approach", Moumita Pramanik*, Jayanta Paul, Konika Das Bhattacharya, Chandan Kumar Chanda, International Conference on Energy, Environment, and Green Technology (ICEEGT 2025); ("For a Greener Future") 3rd - 4th April 2025; Organized by: National Institute of Technical Teachers' Training and Research, Kolkata, India
- C. Dolui, D. Bose and D. Roy, "Analysis of FFT and K-Means Clustering for Structural Health Monitoring," 2024 IEEE Calcutta Conference (CALCON), Kolkata, India, 14-15 December 2024, pp. 1-5, doi: 10.1109/CALCON63337.2024.10914100.
- S. Pusti, T. Santra and D. Roy, "Magnetic Field Distribution Analysis in a Hybrid Magnetic Bearing," 2024 IEEE Calcutta Conference (CALCON), Kolkata, India, 14-15 December 2024, pp. 1-5, doi: 10.1109/CALCON63337.2024.10914316.
- Ashwin Rai, Pubali De, Saibal Ghosh, Pritam Paral, and Amitava Chatterjee, "Performance comparison of K-SVD, discriminative K-SVD, and approximate K-SVD dictionary learning algorithms for public road type recognition" presented at the International Conf. on Signal Processing and Communication (ICSC), Noida, India, Feb. 20-22, 2025 (accepted for publication).
- B. Dey, A. Dhar, S. K. Pandey and A. Sengupta, "TLBO-Based Adaptive MPC Design for Discrete MIMO System," 2024 IEEE 21st India Council International Conference (INDICON), Kharagpur, India, 2024, pp. 1-6, doi: 10.1109/INDICON63790.2024.10958358.
- Priyankar Roy and A Bandyopadhyay, "A High-Voltage Bipolar Pulsed Power Generator Based on a Three-level F-type Inverter" 2024 IEEE International Conference on Power Electronics, Drives and Energy Systems (PEDES), NIT Surathkal during 18th -21st December,2024.

Conference Publications

- ➢ Priyankar Roy, Haricharan Nannam, Pothuraju Ramakrishna and A Bandyopadhyay "MRAS and α'β'- framed SVPWM based modified FS-MPC for PMSM Drive Powered by Five-Level TF-type Inverter for EV Applications" 2024 IEEE International Conference on Power Electronics, Drives and Energy Systems (PEDES), NIT Surathkal during 18th -21st December,2024.
- Saibal Ghosh, Pritam Paral, Pubali De, Amitava Chatterjee, and Sugata Munshi, "Multicolor multishape visual cue recognition using a hybrid approach of cosine similaritybased 2DLPP and granular computing" presented at the International Conf. on Recent Advances in Artificial Intelligence & Smart Applications (RAAISA), Kolkata, India, Dec. 14-15, 2024 (accepted for publication).
- Reeju Bhattacharya and Pritam Paral, "Density-based clustering with direction-aware distance for vision sensing-based walking stick detection in collaborative robotics" in Proc. IEEE Silchar Subsection Conference (SILCON), Agartala, India, Nov. 2024, pp. 1– 6, DOI: 10.1109/SILCON63976.2024.10910745.
- K. S. Chaudhary, D. Guha and R. Maiti, "Backstepping-enabled Fixed-time Terminal Sliding Mode Control of Robot Manipulators," 2025 Fourth International Conference on Power, Control and Computing Technologies (ICPC2T), Raipur, India, 2025, pp. 1-6.
- R. Maiti and K. D. Sharma, "Fuzzy Funnel-Bounded Recursive Fast Terminal Sliding mode Controller Design for Electronic Throttle Valve System," 2024 IEEE 21st India Council International Conference (INDICON), Kharagpur, India, 2024, pp. 1-6.
- S. Kumar, B. Dash, R. Maiti and D. Guha, "Adaptive Fuzzy Predictor Based Fast Terminal Sliding Mode Controller Design for Two-Link Robot Manipulator," 2024 Tenth Indian Control Conference (ICC), Bhopal, India, 2024, pp. 302-307.
- A. Das, A. Sengupta and S. Batabyal, "Implementation of an H∞ Optimal Controller on a Flexible Link Rotary Servo System," 2024 IEEE Calcutta Conference (CALCON), Kolkata, India, 2024, pp. 1-6, doi: 10.1109/CALCON63337.2024.10914133



Book Chapter Publications

- S. Dhar, R. Mukherjee, S. Chanda and A. De, International Book Chapter: "Social Welfare in the Smart Grid Scenario with an Optimal Schedule of Plugin Vehicle Charging", in the book: "Intelligent Computation and Analytics on Sustainable Energy and Environment", CRC Press, Taylor & Francis, October 2024, eBook ISBN: 9781003540199, https://doi.org/10.1201/9781003540199-66
- S. Dutta, P. Biswas, S. Chanda and A. De, International Book Chapter: "A Survey on Dynamic State Estimation Strategies of Power System Networks", in the book: "Intelligent Computation and Analytics on Sustainable Energy and Environment", CRC Press, Taylor & Francis, October 2024, eBook ISBN: 9781003540199, https://doi.org/10.1201/9781003540199-17
- S. Roy, S. Chanda, A. Srivastav and A. De, International Book Chapter: "Tunicate Swarm Algorithm (TSA)-based Multi-objective Congestion Management Approach Ensuring Optimal Load Curtailment", in the book: "Intelligent Computation and Analytics on Sustainable Energy and Environment", CRC Press, Taylor & Francis, October 2024, eBook ISBN: 9781003540199, https://doi.org/10.1201/9781003540199-44
- S. Anand, G. A. Humne, R. Kumar, S. Maity S. Chanda and A. De, International Book Chapter: "A Demand Response Algorithm to Improve Transient Stability Margin for Smart Electrical Grid", in the book: "Intelligent Computation and Analytics on Sustainable Energy and Environment", CRC Press, Taylor & Francis, October 2024, eBook ISBN: 9781003540199, https://doi.org/10.1201/9781003540199-2.
- Reetam Mondal and Jayati Dey, A General Form of FO PI-PD Controllers for Some Stable Integer and Non-integer Order Plants with Transport Delay, Springer Proceedings in Physics, Springer Nature, Vol.3, pp. 461-471, 2024.

Students' Activities & Achievements

Recent Achievements of Students

| S. No | Name of Student | Course | Organisation |
|----------|--|---|--|
| 1 | Sharanya Bhattacharjee (8 th Sem B.Tech EE) | • Rank 180 in GATE 2025 (IN) | IIEST |
| 2 | Anubhav Santara (8 th Sem B.Tech EE) | • Rank 104 in GATE 2025 (EE) | IIEST |
| 3 | Sourav Das (8 th Sem B.Tech EE) | Rank 163 in GATE 2025 (IN) Rank 450 in GATE 2025 (EE) | IIEST |
| 4 | Astitva Nath Mishra (8 th Sem B.Tech EE) | • Rank 2270 in GATE 2025 (EE) | IIEST |
| 5 | Priyanshu Kumar (8 th Sem B.Tech EE) | • Rank 2507 in GATE 2025 (EE) | IIEST |
| 6 | Suraj Nayak (8 th Sem B.Tech EE) | • Rank 1130 in GATE 2025 (EE) | IIEST |
| 7 | Priyangshu Dey (8 th Sem B.Tech EE) | • Rank 87 in GATE 2025 (CS) | IIEST |
| 8 | Sumit Kumar Gupta (4 th Sem B.Tech EE) | 1st Prize in Food Hackathon 1st Prize in Founders Goal Organized in INSTRO 13 3rd Prize in Geek Gadgets, Organized By INITIUM 10.0 | IIEST Shibpur |
| 9 | Rupanjan Bhattacharyya (4 th Sem B.Tech EE) | Online Internship Programme in Data Science Internship on developing face classification of students to determine interest levels | IDEAS, Indian Statistical Institute, Kolkata IIT Guwahati |
| 10 | Geetanjali (4 th Sem B.Tech EE) | Second in Inter Year Relay (Girls') | Annual Athletic Meet, IIEST Shibpur |
| 11 | Jay Chakrabarti (4 th Sem B.Tech EE) | Internship in Behavioral Economics (Analysing trust factor and its causes and effects that impact the decision making or behaviour intentions of consumers to opt for private health insurance) | School of Management Sciences, IIEST. |
| 12 | Supriyo Roy (6 th Sem B.Tech EE) | Certificate of Distinction in Winter School 2024 | CeNSE, Indian Institute of Science (IISc) |
| 13 | Sharanya Bhattacharjee (8 th Sem B.Tech EE) | Selected in the Samsung Fellowship under the Indian Semiconductor Workforce Development Program | IISc and Synopsys |
| 14 | Abhishek Shaw (8 th Sem B.Tech EE) | Selected in Amazon ML Summer School 2024 | Amazon |

Students' Activities & Achievements



Faculty Activities & Achievements

- Prof. Debabrata Roy became President of Institution's Innovation Council (IIC 7.0) from 21.11.2024.
- Prof. Debabrata Roy acted as a Track Chair in Electrical Engineering of 2024 IEEE Calcutta Conference (CALCON) on December 14-15, 2024.
- Dr. Abhinandan De was nominated as a judge for the Aliah University Technical Festival AURA-2025, February 2025.
- Dr. Abhinandan De was nominated by IIEST as a member of the Expert Committee of the Department of Disaster Management and Civil Defense, Govt. of West Bengal in December 2024.
- Dr. Abhinandan De was nominated as a member of the Board of Studies (BoS) of the Department of Electrical Engineering, Dr. B. C. Roy Engineering College, Durgapur, West Bengal for 2024-2025.
- Dr. Abhinandan De was nominated as member of the Board of Studies (BoS) of the Department of Electrical Engineering, and the Department of Electrical & Electronics Engineering, Institute of Engineering & Management (IEM), Kolkata for 2024-2025.
- Dr. Reetam Mondal acted as Session Chair during the 1st International Conference on Energy, Environment, and Green Technology (ICEEGT 2025), organized by the Department of Electrical Engineering, NITTTR Kolkata.
- Dr. Anirudh Nath acted as Judge in CISCE IHFC Inter-School Robotics Championship (IRC) 2024 - Kolkata Zonal Round conducted on October 22, 2024 at La Martiniere Girls School, Kolkata.
- Dr. Mousumi Mukherjee acted as Session Co-Chair in Indian Control Conference (ICC-10) held on Dec 2024 at IISER, Bhopal.
- Dr. Roshni Maiti acted as Session Co-Chair in Indian Control Conference (ICC-10) held on Dec 2024 at IISER, Bhopal.
- Dr. Pritam Paral received the Best Paper Award in the International Conference on Recent Advances in Artificial Intelligence & Smart Applications (RAAISA).
- The conference paper titled 'Adaptive Fuzzy Predictor Based Fast Terminal Sliding Mode Controller Design for Two-Link Robot Manipulator' of Dr. Roshni Maiti received GAABESU research excellence award.
- > Dr. Anirudh Nath Joined as Warden, Hostel 14 from February 1st, 2025.
- Dr. Anirudh Nath acted as Session Co-Chair in International Conference on System Theory and Control (ICSTCC) on Oct, 2024 in Romania.
- Dr. Amalendu Bikash Choudhury has acted as Panel member and served as session chair at NITTR, Kolkata in the International Conference on 'Energy, Environment and Green Technology, ICEEGT 2025 on 3rd April, 2025.
- Prof. Konika Das (Bhattacharya), Dr. Mousumi Mukherjee and Dr. Anirudh Nath participated in the Industry-Academia Conclave – 2024 at NIT Jamshedpur in November 2024.

Faculty Activities & Achievements



Engineering Department of Electrical





Engineering Electrica Department of

Faculty Activities & Achievements



Cleaning Drive by the Electrical Engineering (EE) Department for Clean & Green Campus



Editorial Team

Editor-in-Chief:

Prof. (Dr.) Anindita Sengupta, Professor and Head, Department of Electrical Engineering (EE), IIEST, Shibpur, Howrah, WB.

Team Members:

Dr. Reetam Mondal, Assistant Professor, Dept. of EE Dr. Roshni Maiti, Assistant Professor, Dept. of EE Dr. S. A. Qasim, Assistant Professor, Dept. of EE Dr. Mousumi Mukherjee, Assistant Professor, Dept. of EE Dr. Anirudh Nath, Assistant Professor, Dept. of EE