

About The Institution

Haldia Institute of Technology (An Institute of ICARE, Haldia, Approved by AICTE, Affiliated to WBUT) began its journey in the year 1996. It is the first private and accredited academic institution catering technical education in West Bengal. The Institute is situated at Haldia – an industrial hub in Eastern India. Since inception, Haldia Institute of Technology is dedicated to the objectives of creating highly trained professional manpower in various disciplines of Engineering, Technology and Social Science. The Institute is also dedicated to the contribution of higher scientific research in Technology as well as in Applied Science and Social Science. The institute offers 4 years UG (B. Tech) degree courses in EE, ECE, AEIE, CE, ME, IT, CSE, Chemical, Biotechnology, Cyber Security, Data Science and AI & ML. It also offers PG courses in Chemical, CSE, ECE, BT, ME, MBA and MCA. It has been accredited with grade A by NAAC and all of the departments are NBA accredited. The institute has received the prestigious NIRF ranking by MHRD and holds second position among all the private engineering institutes in West Bengal.

About The Department

The Department of Electrical Engineering has been offering undergraduate course in Electrical Engineering since 2002 and is accredited by NBA. Within a very short span of time, the department has created an excellent learning environment with dedicated young faculty members, technical staff, excellent laboratories and innovative academic processes. In order to perform the complex functions in modern applications of Electrical Engineering, the department has a well combination of hardware and software facilities. The department provides students with modern hardware facilities like PLCs, Synchronization of Alternator, SPWM Drives, FPGA based data acquisition system, Machine fault simulator etc. At the same time department also provides computational facilities with MATLAB, PSPICE, PSCAD, PSIM etc. The department also supports IEEE HIT Student branch which is a wing of IEEE Kharagpur Section (IITKGP). Currently, the sanctioned intake for the UG course is 120. The faculties are engaged in active research and special emphasis is given to involve students to give them a first hand experience of research methodologies. The students of the department have been placed in HPL, CTS, WIPRO, INFOSYS, Tata Power, CESC, Electricity utilities of various State Governments and numerous electrical project companies. Many students are also pursuing higher studies and PhD in Indian and foreign universities.

Honourable Speakers:



Dr. Arabinda Das: Professor, Electrical Engineering Department, Jadavpur University



Dr. Sovan Dalai: Professor, Electrical Engineering Department, Jadavpur University



Dr. Abhinandan De: Associate Professor, IEST, Shibpur



Dr. Deepak Reddy Pullaguram: Assistant Professor, Electrical Engineering Department, IIT, Kharagpur



Dr. Dipayan Guha: Assistant Professor, Electrical Engineering Department, MNNIT, Allahabad



Mr. Sandip Joardar: Deputy Manager, Haldia Petrochemicals Limited

Who May Attend?

The Scientist/Scholar/Industry person Students & faculty members working in any institution approved and recognized by AICTE and State Council/State Bodies.. Seats are limited, registration will be on first come-first serve basis.



HALDIA INSTITUTE OF TECHNOLOGY

National Symposium

On

Advancements in the power and energy sector through AI & ML

(APESAM -2025)

Date: 28th - 29th July, 2025

Organized by



Department of Electrical Engineering

Haldia Institute of Technology

(An Autonomous, NAAC Accredited Grade 'A' Institute, affiliated to Maulana Abul Kalam Azad University of Technology)



About The Symposium

The Symposium on *Advancements in the power and energy sector through AI & ML* is designed to provide in-depth knowledge and hands-on experience in leveraging Artificial Intelligence (AI) and Machine Learning (ML) for revolutionizing the energy sector. This program aims to equip **Scientist/Scholar/Industry Person/Students & faculty members** with the latest technological advancements, research trends, and practical applications of AI and ML in power systems.

The aim of this Program is to provide a platform for academicians/scientist/scholars/students/industry professional to understand the recent research developments and to explore future trends in various areas of Sustainable Technology. It will also bring together both novice and experienced scientists and developers, to explore newer scopes, collect new ideas and establish new cooperation between research groups and exchange ideas, information, techniques and applications in the field of Power & Energy Using AI & ML. All accepted and presented good quality papers will be submitted for publication in a special issue in "International Journal of HIT Transaction on ECCN with ISBN 0973-6875" or any other book as a book chapter.

Outcome of the Symposium

- Participants will acquire advanced knowledge of AI and ML applications in power and energy systems.
- Participants will have the opportunity to present AI-driven solutions for smart grid management and the integration of renewable energy.
- Enhanced skills in predictive analytics for maintenance, energy forecasting, and optimization techniques.
- Increased awareness of cybersecurity challenges and solutions in the energy sector.
- Encouragement of interdisciplinary research in AI-powered energy innovations.
- Strengthened collaboration between academia and industry for future advancements in power and energy systems.
- Development of project ideas and research proposals focusing on AI-driven sustainable energy solutions.

Important Dates

Paper Submission Deadline- 30/06/2025

Notification of Acceptance-10/07/2025

Last date of registration-Camera-Ready copy-20/07/2025

Payment Account Details

Registration Fee: 700

Account Name: EEHIT SEMINAR AND CONFERENCE

Bank Name: CANARA

Branch Name- Haldia Institute of Technology Campus

Bank Account Number: 110078762496

IFSC Code-CNRB0019558

QR Code for registration-



OR

Registration Link: <https://forms.gle/4ntoBVzQMjHESfWb7>

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Chief Patron



Dr. Lakshman Chandra Seth (D.Litt.)
Chairman, HIT, ICARE, Haldia, W.B

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- **Mr. Sudipton Seth**, Member, BOG, HIT
- **Dr. Tarun Kanti Jana**, Principal, HIT
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- **Dr. Asit Baran Maity**, Dean, School of Science, HIT

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- **Dr. Debasis Maji**, Assistant Professor, Dept. of EE, HIT

Publication Chair

- **Dr Palash Pal**, Professor, Dept. of EE, HIT

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