



UNVEILING NEW-GENERATION INNOVATIONS IN TECH-UNITS (UNIT-2024)

One-Week FDP/STC is being

Organized By

Department of Chemical Engineering
(NBA Accredited)

Haldia Institute of Technology,
(An Autonomous, NAAC Accredited, NIRF Ranked Institute)

In Association with

IQAC, Haldia Institute of Technology, Haldia
and

IChE Student Chapter, Haldia

&
Association of Food Scientists & Technologists (India) Haldia Chapter

From 19th to 23th November, 2024



Venue

Haldia Institute of Technology

The event will be conducted in
Hybrid mode.

REGISTRATION LINK:

<https://forms.gle/coXhddHh6ZSUcCxf6>

Last date of registration: 17th November, 2024

Eligibility: The programme is open to Faculty of Engineering
Institute/Universities, Research Scholars and Industry personnel

About the FDP/STP

Engineering is the backbone of modern civilization. From transportation to healthcare, from energy to education, engineers have the power to reshape the world. But as the world faces unprecedented challenges such as climate change, resource depletion, and pollution, the role of engineers has become even more crucial.

The challenge of climate change is being addressed head-on through innovations in integrated carbon capture storage and utilization technologies. These systems are being improved to more effectively absorb and store CO₂ emissions, offering a crucial tool in the fight against global warming. Such advancements highlight the critical role engineers play in developing solutions to complex environmental issues.

The road ahead is filled with possibilities. Emerging technologies such as artificial intelligence, machine learning, Internet of Things (IoT), and advanced materials science hold the promise of even more groundbreaking solutions. By continuously pushing the boundaries of what's possible, engineers can lead the charge towards a sustainable future.

The program offers a dynamic mix of lecture-sessions of experts in the area of new-generation innovation in engineering and technology. Interactive discussions will enrich participants with a balanced understanding of these interconnected topics. This program aims to empower participants to acquaint with the recent changes in approaches of problem solving and to drive sustainable solutions in their academic and professional sphere, ultimately contributing to a greener and more sustainable future.

FDP/STP COVERAGE

The FDP/STC will cover most of the relevant topics of changes due to emergence of new-generation technologies in Chemical, Cryogenic, Food, Health, Agricultural, Environmental, Biotechnology, Corrosion and Energy sectors. Innovations like AI, machine learning, and IoT that are transforming tech units will be discussed. Case studies will highlight real-world examples of companies that have successfully integrated new technologies also.

Resource Persons

1. **Prof. Sunil Sarangi**, Former Professor, IIT Kharagpur, Director NIT, Rourkela.
2. **Prof. Rintu Banerjee**, Dy. Director, IIT Kharagpur, Former Professor and Head, IIT Kharagpur
3. **Prof. Soumen Das**, Professor and Head, School of Medical Science and Technology, IIT Kharagpur
4. **Dr. Uttiyo Bhattacharya**, Professor of Practice - Noida Institute of Engineering & Technology, Former Executive Director (HSE) at Indian Oil Corp Limited
5. **Mr. D. Bbutala**, Past President, IChE
6. **Prof. V. V. Rao**, Professor, IIT, Tirupati
7. **Mr. Chanchal Dasgupto**, Manager (Marketing Application Infrastructure), Borouge Asia South
8. **Dr. Soumen Banerjee**, General Manager (Lubes) at Indian Oil Corporation Ltd.
9. **Prof. Ranjeet Kumar**, Professor, Manipal Institute of Technology, Manipal.
10. **Mr. S. Dandapat**, SDM (I & CF) HDC
11. **Prof. A. Sirkar**, Former Head, ChE, HIT, Haldia

Address for Communication

Prof. (Dr.) A. K. Saha

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About the Department

The Department of Chemical Engineering was established in the year 1996 with a sanctioned intake of 30 seats for undergraduate (UG) programs, the institute witnessed a steady growth in its intake capacity over the years. By 1998, the intake had doubled to 60 seats, reflecting the increasing demand for technical education. Continuing this trend, in 2019, the institute further expanded its undergraduate intake to 120 seats to accommodate more aspiring students. Additionally, the institute introduced M.Tech programs in 2006, initially offering 18 seats. However, in 2019, the number of seats for M.Tech was reduced to 9. The department received its initial accreditation from NBA in 2004 for a three-year period. Subsequently, it was successfully re-accredited in 2008, 2016, 2019 each time for another three-year period. In addition to regular coursework, students actively participate in various co-curricular activities organized by the department, including seminars, conferences, workshops, industrial visits, summer internship training, and invited talks by successful alumni, scientists, and industrialists. The department also hosts the Indian Institute of Chemical Engineers (IChE) students' chapter. The department boasts a team of highly energetic and enthusiastic faculty members dedicated to academic and research pursuits. They actively contribute to various research directions and institute-level activities, such as the MSME Business Incubation Centre.

Vision

To become an internationally acclaimed department of highest learning to solve technical challenges faced by chemical and allied industries through eco-friendly technologies.

Mission

- To inculcate students with a strong fundamental knowledge to meet the needs of a rapidly changing technological environment in process development and equipment design.
- To carry out vibrant interdisciplinary research programme that can creatively shape the undergraduates and graduates to address the needs of chemical engineering profession in particular and society in general.
- To develop leadership qualities to solve scientific and environmental challenges keeping in mind the safety and ethical concerns.

About the Institute

Haldia Institute of Technology (HIT) is a prominent engineering and management institution located in Haldia, West Bengal, India. Established in 1996, it is an autonomous institution affiliated with Maulana Abul Kalam Azad University of Technology (MAKAUT). HIT offers undergraduate and postgraduate programs in various engineering disciplines, as well as MBA programs. The institute is known for its modern infrastructure, experienced faculty, and focus on research and development. Additionally, HIT emphasizes industry collaboration and student placements, making it a key player in the region's educational landscape.

Haldia Institute of Technology lies approximately 125 km from Kolkata and is well-connected by rail and road to major metro cities across India.

PARTICIPENTS

The faculty members of the AICTE approved institutions, research scholars, participants from government organizations and industry.

Seats (150 offline and 250 online) being offered on first come first served basis.

REGISTRATION LINK

<https://forms.gle/eoXhddHh6ZSUcCxf6>

The Mode of FDP is Hybrid (online & offline). Certificate will be provided to Participants whose attendance is above 75% & will submit Feedback Form.

Registration Fee: ₹400/-

WEB LINK OF FDP/STC

The web link of the FDP will be shared with all the participants after the registration on their registered mail id and WA.

CHIEF PATRON

D. Lit. (Dr). Laksman Chandra Seth, Chairman, HIT

PATRONS

Mr. Asish Lahiri, Secretary, ICARE & HIT, Haldia, W.B.

Mr. Sayantan Seth, Vice-Chairman, HIT, Haldia

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Dr. Anjan Mishra, Registrar General HIT, Haldia

Prof.(Dr.) T. K. Jana, Dean – SE & Convener -IQAC, HIT, Haldia

Prof. (Dr.) R. Das, Dean (ChE,FT & BT), HIT, Haldia

Dr. Debasis Das, Administrative Manager, HIT, Haldia

Mr. Sudipta Kumar Basu, Finance Manager, HIT, Haldia

PROGRAM COORDINATOR

Prof. (Dr.) A. K Saha, Prof., ChE, HIT, Haldia

PROGRAM CO-COORDINATOR

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Mrs. S. Samanta, Asst. Prof., ChE, HIT, Haldia

ORGANIZING COMMITTEE

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Dr. S. Poddar, Asst. Prof., ChE, HIT, Haldia