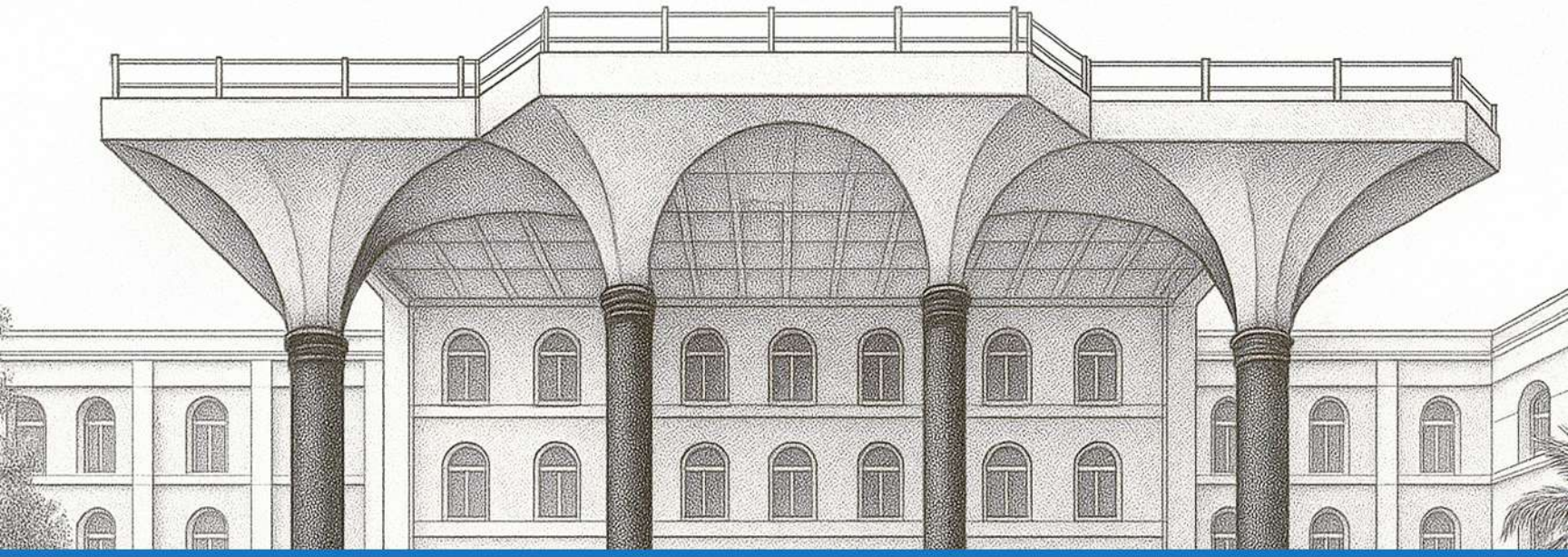
Information Brochure
for Undergraduate & Postgraduate Programs

Academic Year: 2025 - 2026



HALDIA INSTITUTE OF TECHNOLOGY

An Autonomous Institution
(A unit of ICARE)

Sankalp *Siksha* *Soch* *Safalta*

Affiliated to
Maulana Abdul Kalam Azad University of Technology (MAKAUT)

Dr. Lakshman Chandra Seth, D.Lit
Founder, Chairman

Desk of Chairman

Haldia Institute of Technology (HIT) has set a benchmark in technical education since 1996, focusing on empowering students through quality education, ethical values, and innovation. The institute is dedicated to nurturing skilled, confident, and responsible individuals prepared to meet global challenges.

With modern infrastructure, experienced faculty, and a supportive learning environment, HIT places students at the center of its mission. From hands-on learning and research opportunities to personal growth and community engagement, HIT ensures every student is equipped for success and lifelong learning.

TIMELINE OF GROWTH

1996
HIT was established as West Bengal's first private accredited engineering institution with initial departments in CHE, CSE, and AEIE.

1998
Program Introduced:
B.Tech in ECE

Program
B.Tech

2016
NAAC(2nd Cycle Accreditation with 'A' Grade (CGPA 3.31))

NBA(

2017
NBA (B.Tech in BT, CHE, CSE, ME);
IEI Life Institutional Membership

NBA(B.Tech
NAAC(Mentor I
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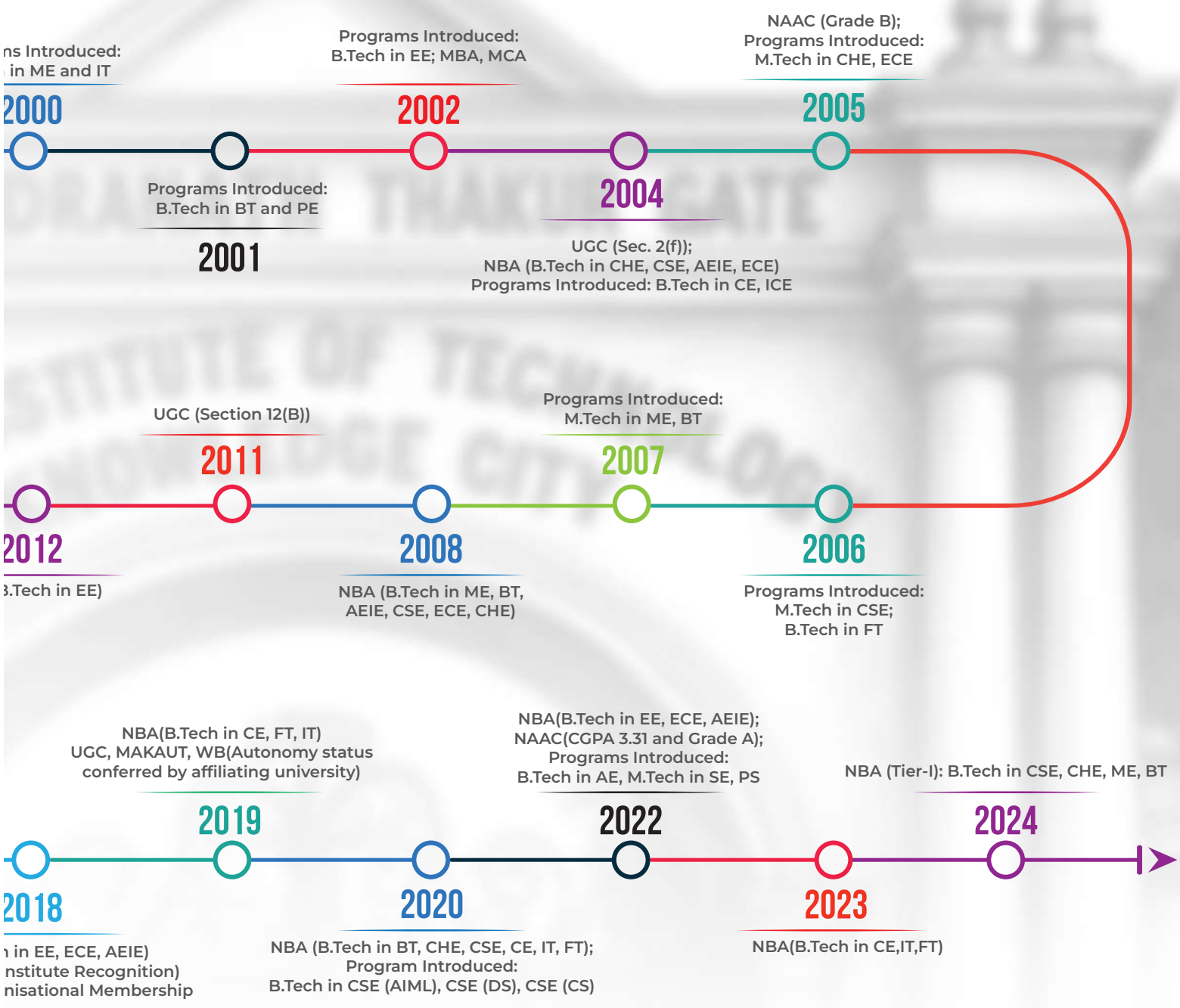

ns Introduced:
in ME and IT
2000
Programs Introduced:
B.Tech in BT and PE
2001
Programs Introduced:
B.Tech in EE; MBA, MCA
2002
UGC (Sec. 2(f));
NBA (B.Tech in CHE, CSE, AEIE, ECE)
Programs Introduced: B.Tech in CE, ICE
2004
NAAC (Grade B);
Programs Introduced:
M.Tech in CHE, ECE
2005
Programs Introduced:
M.Tech in CSE;
B.Tech in FT
2006
Programs Introduced:
M.Tech in ME, BT
2007
NBA (B.Tech in ME, BT,
AEIE, CSE, ECE, CHE)
2008
UGC (Section 12(B))
2011
.Tech in EE)
2012
NBA(B.Tech in CE, FT, IT)
UGC, MAKAUT, WB(Autonomy status
conferred by affiliating university)
2019
in EE, ECE, AEIE)
nstitute Recognition)
nisational Membership
2018
NBA (B.Tech in BT, CHE, CSE, CE, IT, FT);
Program Introduced:
B.Tech in CSE (AIML), CSE (DS), CSE (CS)
2020
NBA(B.Tech in EE, ECE, AEIE);
NAAC(CGPA 3.31 and Grade A);
Programs Introduced:
B.Tech in AE, M.Tech in SE, PS
2022
NBA(B.Tech in CE,IT,FT)
2023
NBA (Tier-I): B.Tech in CSE, CHE, ME, BT
2024

Welcome

to HALDIA INSTITUTE OF TECHNOLOGY

Welcome to Haldia Institute of Technology — a premier engineering institution with 30 years of excellence in shaping future leaders. Established in 1996, HIT is built on the strong pillars of Sankalp (Determination), Soch (Vision), Siksha (Education) and Safalta (Success). With a legacy of academic distinction, cutting-edge infrastructure and a dynamic learning environment, we are committed to empowering students to innovate, lead and create a better tomorrow.

Our Vision

To achieve Centre of Excellence in the field of Science, Technology and Management Education for creating dynamic human resources of global standards with capabilities of accepting new challenges.

Our Mission

To impart quality and value based education to raise satisfaction level of all stake-holders.

To create competent, creative professionals, and great entrepreneurs who can work as individual or in group in multicultural global environments.

To prepare citizens who would grow to be competent enough to contribute significantly with personal integrity and civic responsibility for the betterment of mankind throughout their careers and profession.

Index

Message from the Desk of the

Principal

The life and activities across the globe in the early 21st Century are undergoing an unprecedented socio-economic changes due to varieties of reasons such as growing geo-political issues, climate change, stringent business requirements, and rapid technological innovations besides others. The tumultuous business environment has given rise to steep competition and volatility, fueled by mushrooming growth of digital technologies and rampant use of social media platform. The academic institutions are no way exempted from the evolving uncertainties and challenges.

It is therefore, extremely important that engineering institutions would revisit their practices and channelize their endeavor to educate the students with all-round capabilities to confront the ever-increasing professional challenges by providing a value-driven, sustainable, and resilient solutions.

Haldia Institute of Technology, Haldia with its rich legacy and credentials of benchmark quality accreditation, has already recognized the necessary transformative requirements and committed to offer high quality education in tune with the philosophy of Outcome based Education (OBE) and in congruence with the National Education Policy 2020 to produce incumbents, who can readily adapt to the rapidly changing industrial scenarios and contribute in shaping the economy and the nation building.

Under the visionary leaderships of the top management, the institute is poised to satisfy the interests of the stake holders and propel towards academic excellence by embracing innovative approaches to teaching- learning, fostering research, emphasizing idea incubation, promoting curricular and co-curricular activities, and offering services to the community for holistic development of the institute.

I strongly believe that the active participative management and team work prevailing in the institution will help in advancing the institute to a greater height of education system and boost further growth.

I wish all success in the process of healthy and sustainable development of the institute.

Prof. (Dr.) Tarun Kanti Jana,
Principal

Departments of HIT

UG & PG PROGRAMS | 2025 - 26

	INTAKE	
	B.Tech	M.Tech
AGRICULTURE ENGINEERING	30	
APPLIED ELECTRONICS & INSTRUMENTATION ENG	60	
BIOTECHNOLOGY	60	09
CHEMICAL ENGINEERING	120	09
CIVIL ENGINEERING	90	12
COMPUTER SCIENCE & ENGINEERING	300	12
COMPUTER SCIENCE & ENGINEERING (AI & ML)	180	
COMPUTER SCIENCE & ENGINEERING (CS)	60	
COMPUTER SCIENCE & ENGINEERING (DS)	120	
ELECTRICAL ENGINEERING	120	12
ELECTRONICS & COMMUNICATION ENGINEERING	180	12
FOOD TECHNOLOGY	60	
INFORMATION TECHNOLOGY	240	
MECHANICAL ENGINEERING	120	18
MBA	60	
MCA	60	

Total Sanctioned intake shown above, excluded TFW/ Lateral Entry / Foreign National Quota / EWS for B.Tech courses

Department of
AGRICULTURE ENGINEERING (AE)

Established in 2022, the Department of Agricultural Engineering at Haldia Institute of Technology is committed to advancing agricultural productivity through engineering innovation. The department integrates mechanical, civil, electrical, and chemical engineering principles with biological sciences to develop sustainable technologies for efficient farming, food processing, and rural infrastructure.

Program Offered

B.Tech in Agricultural Engineering

- Duration: 4 Years (8 Semesters)
- Affiliated to MAKAUT, West Bengal
- Approved by AICTE

Intake ***B.Tech: 30***

Admission Process

- **Eligibility:** 10+2 with Physics, Chemistry, Mathematics/Biology
- **Entrance Exams:** WBJEE / JEE Main / JELET for Lateral Admission
- **Selection:** Through centralized counseling based on entrance rank/merit

Labroratory & Field Facilities

- Farm Machinery Lab
- Soil Mechanics & Irrigation Lab
- Fluid Mechanics & Hydraulics Lab
- Post-Harvest & Food Processing Lab
- Renewable Energy & Bio-Energy Lab
- GIS & Remote Sensing Lab
- On-campus Demonstration Farm & Greenhouse Setup

Career Prospects

- Farm Equipment Design & Manufacturing
- Soil & Water Conservation Projects
- Food Processing & Agro-Industries
- Irrigation Systems & Water Management
- Renewable Energy in Agriculture
- Government Services, NABARD, ICAR, Agri-Research Bodies

Department of APPLIED ELECTRONICS & INSTRUMENTATION ENGINEERING (AEIE)

Established in 1996, the Department of Applied Electronics & Instrumentation Engineering (AEIE) at HIT Haldia is a specialized engineering branch that integrates electronics with measurement and control technology. The department aims to train students in the design, development, and maintenance of sophisticated instrumentation systems used across industries like oil & gas, power, manufacturing, aerospace, and healthcare.

Program Offered

B.Tech in AEIE

- Duration: 4 Years (8 Semesters)
- Affiliated to MAKAUT, West Bengal
- Approved by AICTE | NBA Accredited

Intake ***B.Tech: 60***

Admission Criteria

- **Eligibility:** 10+2 with Physics, Chemistry, Mathematics
- **Entrance Exams:** WBJEE / JEE Main / JELET for Lateral Admission
- **Selection:** Through centralized counseling based on entrance rank/merit

Lab Infrastructure

- Basic Electronics & Analog / Digital Lab
- Sensor & Transducers Lab
- Process Control & Industrial Instrumentation Lab
- Microprocessor & Microcontroller Lab
- Biomedical Instrumentation Lam
- PLC, SCADA & Robotics Lab

Career Prospects

- Oil & Gas & Petrochemical Industries
- Power Plants & Energy Sector
- Biomedical Equipment & Healthcare Technology
- Automation & Robotics
- Semiconductor Industry
- Control System Design & R&D

Department of
BIOTECHNOLOGY (BT)

Established in 2001, the Department of Biotechnology at Haldia Institute of Technology is one of the premier centers for biotechnological education and research. The department offers a B.Tech in Biotechnology, providing a unique blend of life sciences and engineering to create professionals equipped to revolutionize healthcare, agriculture, energy, and environmental sectors.

Program Offered

B.Tech in Biotechnology
- Duration: 4 Years (8 Semesters

M.Tech in Biotechnology
- Duration: 2 Years (4 Semesters))
- Affiliated to MAKAUT, West Bengal
- Approved by AICTE | NBA Accredited

Intake	
B.Tech: 60	***M.Tech: 09***

Admission Process

- **B.Tech. Eligibility:** 10+2 with Physics, Chemistry, and Biology/Mathematics
- **Entrance Exams:** WBJEE / JEE Main JELET for Lateral Admission
- **Selection:** Through centralized counseling based on entrance rank/merit
- **M.Tech. Eligibility:** B.E./B.Tech in Biotechnology / Chemical / Biomedical / Bioinformatics / Biochemical Engineering
- **Entrance Exams:** GATE / PGET (MAKAUT)
- **Selection:** Through centralized counseling based on entrance rank/merit

Labroratory Infrastructure

- Microbiology & Molecular Biology Lab
- Biochemistry & Cell Biology Lab
- Genetic Engineering Lab
- Bioinformatics Lab
- Bioprocess Engineering Lab
- Plant Tissue Culture Lab

Career Prospects

- Pharmaceutical & Biotech Industries
- Healthcare & Diagnostics
- Research & Development (R&D) Labs
- Agriculture & Food Processing
- Environmental Conservation

Department of
CHEMICAL ENGINEERING (CHE)

Established in 1996, the Department of Chemical Engineering at Haldia Institute of Technology is one of the oldest and most prestigious departments of the institute. Strategically located in an industrial hub, the department plays a key role in developing skilled engineers who contribute to industries such as petrochemicals, pharmaceuticals, polymers, food processing, fertilizers, and energy.

Program Offered

B.Tech in Chemical Engineering
- Duration: 4 Years (8 Semesters)

M.Tech in Chemical Engineering
- Duration: 2 Years (4 Semesters)
- Affiliated to MAKAUT, West Bengal
- Approved by AICTE | NBA Accredited

Admission Details

- **B.Tech. Eligibility:** 10+2 with Physics, Chemistry, Mathematics
- **Entrance Exams:** WBJEE / JEE Main / JELET for Lateral Admission
- **Selection:** Through centralized counseling based on entrance merit/ranks
- **M.Tech. Eligibility:** B.E./B.Tech in Chemical / Petrochemical / Polymer / Biochemical / Environmental Engineering
- **Entrance Exams:** GATE / PGET (MAKAUT)
- **Selection:** Through centralized counseling or institute merit list based on rank/performance

Intake	
B.Tech: 120	***M.Tech: 09***

Career Prospects

- Petrochemical & Refinery Operations
- Pharmaceuticals & Biotech Firms
- Food & Beverage Manufacturing
- Fertilizer & Agrochemical Industries
- Environmental Consultancy & Energy Sectors
- Research & Product Development Labs

Laboratory & Research

- Fluid Mechanics & Heat Transfer Lab
- Mass Transfer Lab
- Reaction Engineering Lab
- Process Control & Simulation Lab
- Environmental Engineering Lab
- Computational Chemistry Lab
- Pilot Plant & Industrial Practice Lab

Department of
CIVIL ENGINEERING (CE)

Established in 2004, the Department of Civill Engineering at Haldia Institute of Technology is dedicated to producing skilled professionals in infrastructure and construction. It offers quality education in structural analysis, geotechnical studies, transportation, and environmental engineering

Program Offered

B.Tech. in Civil Engineering
- Duration: 4 Years (8 Semesters)

M.Tech in Structural Engineering
- Duration: 2 Years (4 Semesters)
- Affiliated to MAKAUT, West Bengal
- Approved by AICTE | NBA Accredited

Intake	
B.Tech: 90	***M.Tech: 12***

Admission Details

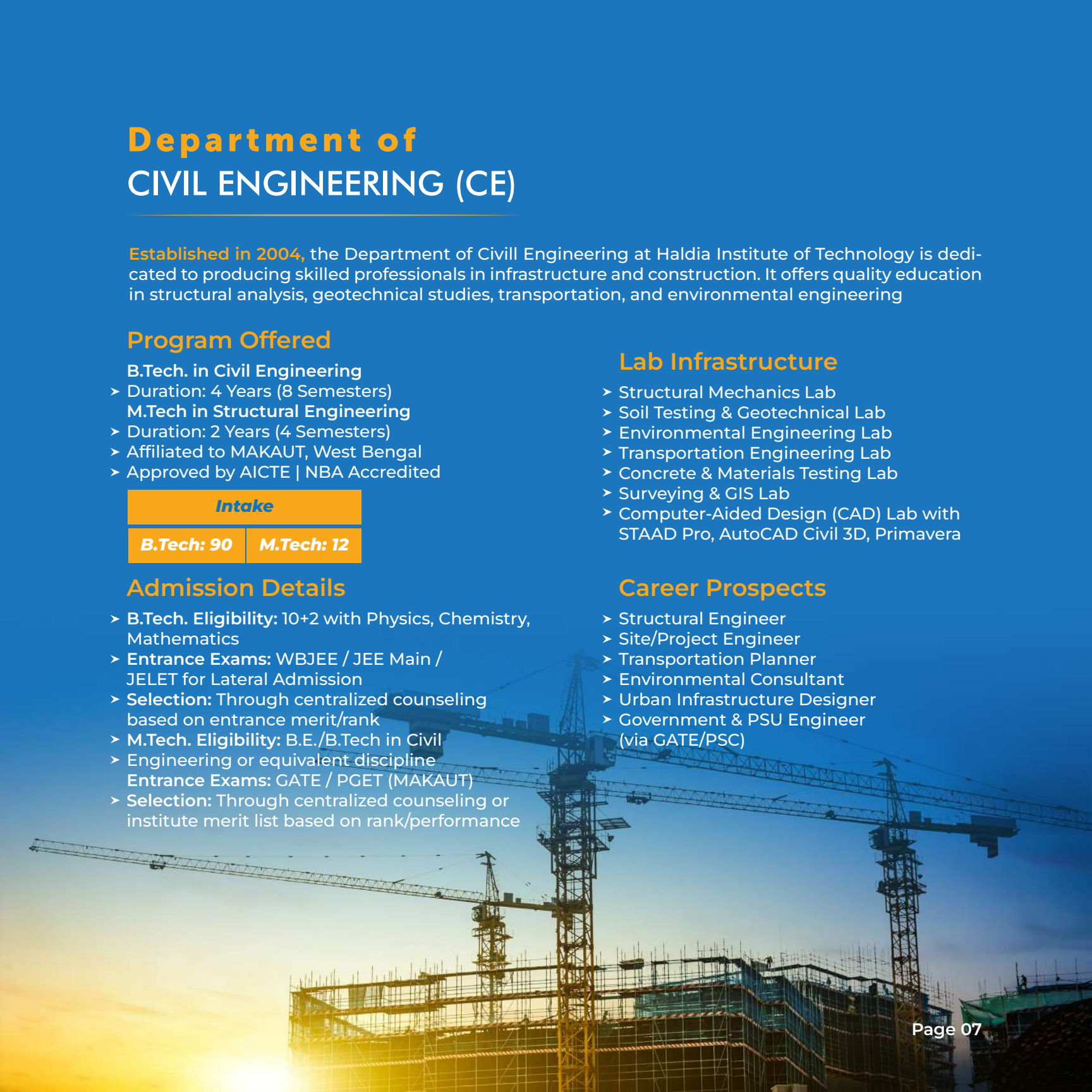
- **B.Tech. Eligibility:** 10+2 with Physics, Chemistry, Mathematics
- **Entrance Exams:** WBJEE / JEE Main / JELET for Lateral Admission
- **Selection:** Through centralized counseling based on entrance merit/rank
- **M.Tech. Eligibility:** B.E./B.Tech in Civil
- Engineering or equivalent discipline
  Entrance Exams: GATE / PGET (MAKAUT)
- **Selection:** Through centralized counseling or institute merit list based on rank/performance

Lab Infrastructure

- Structural Mechanics Lab
- Soil Testing & Geotechnical Lab
- Environmental Engineering Lab
- Transportation Engineering Lab
- Concrete & Materials Testing Lab
- Surveying & GIS Lab
- Computer-Aided Design (CAD) Lab with STAAD Pro, AutoCAD Civil 3D, Primavera

Career Prospects

- Structural Engineer
- Site/Project Engineer
- Transportation Planner
- Environmental Consultant
- Urban Infrastructure Designer
- Government & PSU Engineer (via GATE/PSC)



Department of
COMPUTER SCIENCE & ENGINEERING (CSE)

Established in 1996, the Department of Computer Science & Engineering at Haldia Institute of Technology, is one of the most dynamic and in-demand departments on campus. The program offers a perfect blend of software engineering, algorithmic thinking, AI/ML, cloud computing, and cybersecurity, making it a launchpad for tech innovators, entrepreneurs, and research enthusiasts.

Program Offered

B.Tech in Computer Science & Engineering
- Duration: 4 Years (8 Semesters)

M.Tech in Computer Science & Engineering
- Duration: 2 Years (4 Semesters)
- Affiliated to MAKAUT, West Bengal
- Approved by AICTE | NBA Accredited

Intake	
B.Tech: 300	*M.Tech: 12*

Admission Process

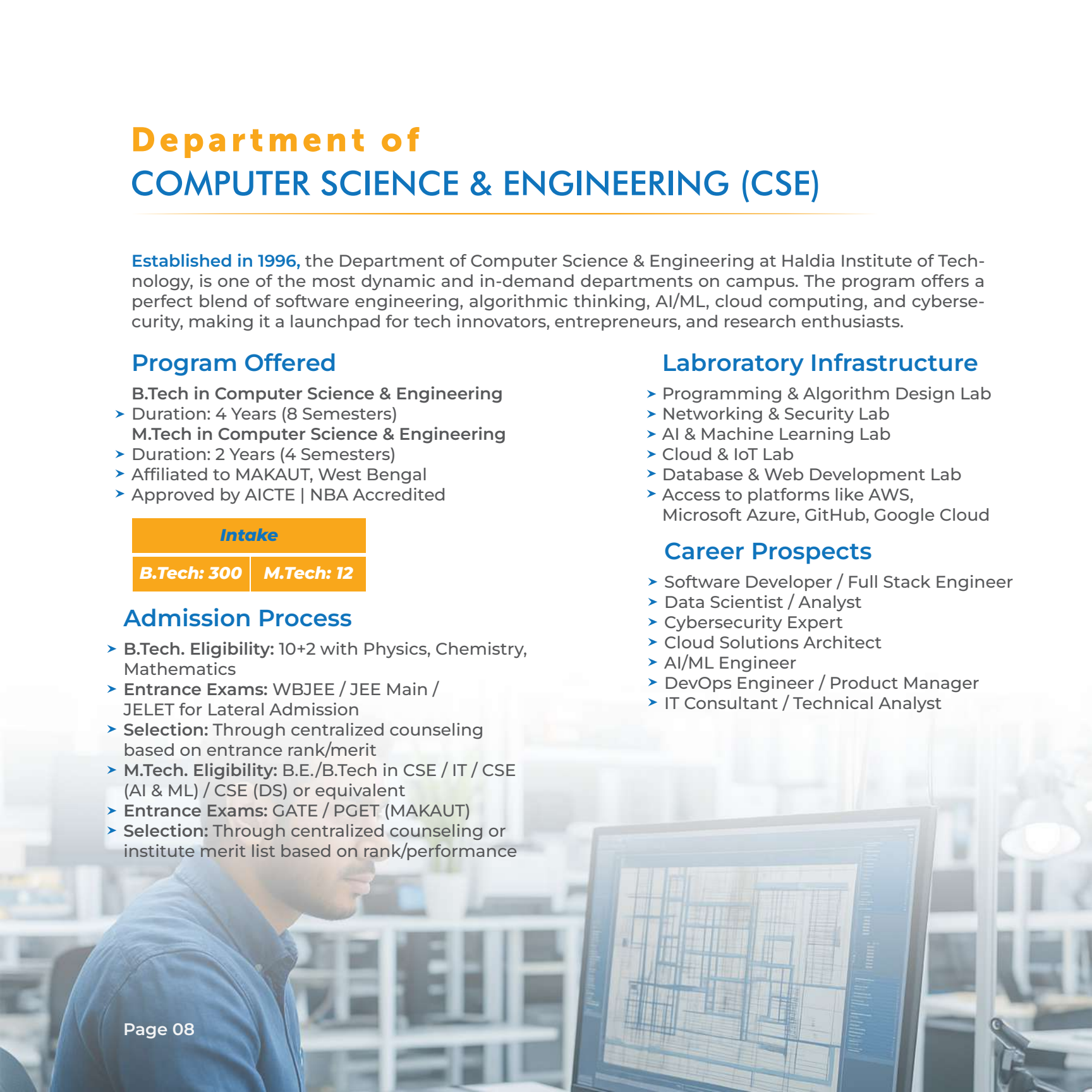
- **B.Tech. Eligibility:** 10+2 with Physics, Chemistry, Mathematics
- **Entrance Exams:** WBJEE / JEE Main / JELET for Lateral Admission
- **Selection:** Through centralized counseling based on entrance rank/merit
- **M.Tech. Eligibility:** B.E./B.Tech in CSE / IT / CSE (AI & ML) / CSE (DS) or equivalent
- **Entrance Exams:** GATE / PGET (MAKAUT)
- **Selection:** Through centralized counseling or institute merit list based on rank/performance

Labroratory Infrastructure

- Programming & Algorithm Design Lab
- Networking & Security Lab
- AI & Machine Learning Lab
- Cloud & IoT Lab
- Database & Web Development Lab
- Access to platforms like AWS, Microsoft Azure, GitHub, Google Cloud

Career Prospects

- Software Developer / Full Stack Engineer
- Data Scientist / Analyst
- Cybersecurity Expert
- Cloud Solutions Architect
- AI/ML Engineer
- DevOps Engineer / Product Manager
- IT Consultant / Technical Analyst



Department of COMPUTER SCIENCE & ENGINEERING -

ARTIFICIAL INTELLIGENCE & MACHINE LEARNING (CSE-AIML)

Established in 2020, the department of CSE (Artificial Intelligence & Machine Learning) program at Haldia Institute of Technology is designed to equip students with advanced computational knowledge and AI-driven problem-solving capabilities. This cutting-edge undergraduate course combines core Computer Science principles with specialized training in AI, ML, data science, and deep learning.

Program Offered

B.Tech in CSE (Artificial Intelligence & Machine Learning)

- Duration: 4 Years (8 Semesters)
- Affiliated to MAKAUT, West Bengal
- Approved by AICTE

Intake ***B.Tech: 180***

Admission Criteria

- **Eligibility:** 10+2 with Physics, Chemistry, Mathematics
- **Entrance Exams:** WBJEE / JEE Main / JELET for Lateral Admission
- **Selection:** Through centralized counseling based on entrance rank/merit

Lab Infrastructure

- AI & ML Lab
- Data Science & Big Data Analytics Lab
- Python & Programming Lab
- Cloud & Virtualization Lab
- NLP & Computer Vision Lab
- IOT & Embedded system Lab

Career Prospects

- Machine Learning Engineer
- Data Scientist / AI Researcher
- Computer Vision Engineer
- NLP Engineer / Prompt Engineer
- AI/ML Software Developer
- Robotics Engineer
- Business Intelligence Analyst
- Product Manager (AI-driven solutions

Department of COMPUTER SCIENCE & ENGINEERING - CYBER SECURITY (CSE-CS)

Established in 2020, the B.Tech in Computer Science & Engineering (Cyber Security) at Haldia Institute of Technology is designed to address the growing global need for skilled cybersecurity professionals. In an increasingly interconnected world, safeguarding data, systems, and infrastructure is critical. This program blends core computer science principles with specialized training in ethical hacking, digital forensics, network security, and cyber law.

Program Offered

B.Tech in CSE (Cyber Security)

- Duration: 4 Years (8 Semesters)
- Affiliated to MAKAUT, West Bengal
- Approved by AICTE

Intake	*B.Tech: 60*

Admission Criteria

- **Eligibility:** 10+2 with Physics, Chemistry, Mathematics
- **Entrance Exams:** WBJEE / JEE Main / JELET for Lateral Admission
- **Selection:** Through centralized counseling based on merit/rank

Lab Infrastructure

- Cyber Security Lab
- Ethical Hacking Lab
- Digital Forensics Lab
- Network Security Lab
- Secure Coding Lab
- Virtual Simulartion & Compilation Lab

Career Prospects

- Security Analyst / Cybersecurity Engineer
- Ethical Hacker / Penetration Tester
- Security Software Developer
- Incident Response Analyst
- Digital Forensics Investigator
- Cloud Security Engineer
- Risk & Compliance Analyst
- Information Security Manager

Department of
COMPUTER SCIENCE & ENGINEERING - DATA SCIENCE (CSE-DS)

Established in 2020, the B.Tech in Computer Science & Engineering (Data Science) at Haldia Institute of Technology is designed to meet the ever-growing demand for data-savvy professionals. In this era of information overload, data is the new oil—and our curriculum empowers students to extract, analyze, and apply insights from massive datasets to solve real-world problems.

Program Offered

B.Tech in CSE (DATA SCIENCE)

- **Duration:** 4 Years (8 Semesters)
- Affiliated to MAKAUT, West Bengal
- Approved by AICTE

Intake	*B.Tech: 120*

Career Prospects

- Data Scientist / Data Analyst
- Business Intelligence Developer
- Machine Learning Engineer
- AI & Predictive Modeling Specialist
- Data Engineer / Cloud Data Architect
- Research Analyst in Financial/Healthcare Marketing Domains

Admission Details

- **Eligibility:** 10+2 with Physics, Chemistry, Mathematics
- **Entrance Exams:** WBJEE / JEE Main / JELET for Lateral Admission
- **Selection:** Through centralized counseling based on entrance merit/ranks

Laboratory & Software Tools

- Data Analytics Lab with Python, RStudio
- ML & AI Lab with TensorFlow, Scikit-learn, PyTorch
- Database Lab with MySQL, MongoDB
- Big Data Tools: Hadoop, Spark
- Visualization Suite: Power BI, Tableau
- Access to AWS Educate, Google Cloud, Microsoft Azure

Department of
ELECTRICAL ENGINEERING (EE)

Established in 2002, the Department of Electrical Engineering at Haldia Institute of Technology is known for its commitment to producing technically proficient and industry-ready engineers. With a strong foundation in core electrical concepts and an emphasis on innovation, sustainability, and automation, the department prepares students to tackle modern engineering challenges in power systems, electrical machines, renewable energy, and industrial automation.

Program Offered

B.Tech in Electrical Engineering
- Duration: 4 Years (8 Semesters)

M.Tech in Power Systems
- Duration: 2 Years (4 Semesters)
- Affiliated to MAKAUT, West Bengal
- Approved by AICTE | NBA Accredited

Intake	
B.Tech: 120	***M.Tech: 12***

Admission Process

- **B.Tech. Eligibility:** 10+2 with Physics, Chemistry, Mathematics
- **Entrance Exams:** WBJEE / JEE Main / JELET for Lateral Admission
- **Selection:** Through centralized counseling based on entrance merit/rank
- **M.Tech. Eligibility:** B.E./B.Tech in Electrical / Electrical & Electronics Engineering or equivalent
- **Entrance Exams:** GATE / PGET (MAKAUT)
- **Selection:** Through centralized counseling or institute merit list based on rank / performance

Labs & Facilities

- Electrical Machines Lab
- Power Systems & Protection Lab
- Power Electronics Lab
- Control & Instrumentation Lab
- Embedded Systems & Microcontroller Lab
- Simulation Lab (MATLAB, PSCAD, ETAP, Multisim)

Career Prospects

- Power Generation, Transmission & Distribution
- Renewable Energy & Smart Grid Systems
- Electrical Design & Maintenance
- Industrial Automation & Robotics
- Embedded Systems & Control Engineering
- Government Services (PSUs, Railways, PWD, DRDO, etc.)

Department of
ELECTRONICS & COMMUNICATION ENGINEERING (ECE)

Established in 1998, the Department of Electronics & Communication Engineering (ECE) at Haldia Institute of Technology is committed to producing industry-ready professionals equipped with deep knowledge of electronics, signal processing, and communication systems. The department provides a strong foundation in both hardware and software aspects of electronics, enabling students to thrive in a rapidly advancing technological landscape.

Program Offered

B.Tech in Electronics & Communication Engineering

- **Duration:** 4 Years (8 Semesters)

M.Tech in Electronics & Communication Engineering

- Duration: 2 Years (4 Semesters)
- Affiliated to MAKAUT, West Bengal
- Approved by AICTE | NBA Accredited

Intake	
B.Tech: 180	*M.Tech: 12*

Admission Details

- **B.Tech. Eligibility:** 10+2 with Physics, Chemistry, Mathematics
- **Entrance Exams:** WBJEE / JEE Main JELET for Lateral Admission
- **Selection:** Through centralized counseling based entrance on merit
- **M.Tech. Eligibility:** B.E./B.Tech in ECE / Instrumentation / Applied Electronics / Telecommunication Engineering
- **Entrance Exams:** GATE / PGET (MAKAUT)
- **Selection:** Through centralized counseling or institute merit list based on rank/performance

Laboratory & Software Tools

- Electronics Devices & Circuits Lab
- Digital Signal Processing Lab
- Communication Engineering Lab
- Microprocessor & Embedded Systems Lab
- VLSI Design Lab (using Cadence, Xilinx)
- IoT and Wireless Communication Lab
- MATLAB & Simulation Lab

Career Prospects

- Embedded Systems Engineer
- Communication Engineer
- VLSI & Chip Design Engineer
- IoT Systems Developer
- RF & Microwave Engineer
- Signal Processing Analyst
- Network Planning Engineer
- Software Developer (Hardware-Aware Programming)

Department of
FOOD TECHNOLOGY (FT)

Established in 2006, the Department of Food Technology at Haldia Institute of Technology is dedicated to educating the next generation of food scientists and technologists who will shape the future of food production, processing, safety, and innovation. With the global food industry rapidly expanding, this program bridges science, technology, and engineering to ensure food quality, safety, and sustainability.

Program Offered

B.Tech in Food Technology

- **Duration:** 4 Years (8 Semesters)
- Affiliated to MAKAUT, West Bengal
- Approved by AICTE | NBA Accredited

Intake ***B.Tech: 60***

Career Prospects

- Food & Beverage Manufacturing
- Quality Control & Food Safety
- Product Development & R&D
- Packaging & Supply Chain Management
- Nutrition & Public Health
- Government Regulatory Bodies (FSSAI, BIS)

Admission Details

- **Eligibility:** 10+2 with Physics, Chemistry, Mathematics
- **Entrance Exams:** WBJEE / JEE Main / JELET for Lateral Admission
- **Selection:** Through centralized counseling based on entrance rank/merit

Laboratory & Research Facilities

- Food Chemistry & Analysis Lab
- Food Microbiology Lab
- Food Engineering & Processing Lab
- Packaging & Storage Lab
- Quality Control & Sensory Evaluation Lab
- Pilot-Scale Food Processing Unit

Department of
INFORMATION TECHNOLOGY (IT)

Established in 2000, the Department of Information Technology aims to create globally competent IT professionals. The department offers a B.Tech in Information Technology, intergrating academic excellence with hands-on learning to nurture innovation, leadership, and a strong sense of ethical responsibilty among students.

Program Offered

B.Tech in Information Technology

- Duration: 4 Years (8 Semesters)
- Affiliated to MAKAUT, West Bengal
- Approved by AICTE | NBA Accredited

Intake ***B.Tech: 240***

Facilities & Resources

- State-of-the-art Computer Labs
- High-Speed Internet & Wi-Fi Campus
- Digital Library Access
- Smart Classrooms & E-learning Platforms
- Industry-standard Software & Tools
- Incubation Cell for Startups

Admission Process

- **Eligibility:** 10+2 with Physics, Chemistry, and Mathematics
- **Entrance Exams:** WBJEE / JEE Main JELET for Lateral Admission
- **Selection:** Through centralized counseling based on entrance merit/rank

Career Opportunities

- Software Developer / Engineer
- Data Analyst / Data Scientist
- Network & Security Specialist
- AI/ML Engineer
- Cloud Architect
- Web & App Developer
- IT Consultant

Department of
MECHANICAL ENGINEERING (ME)

Established in 2000, the Department of Mechanical Engineering at HIT Haldia is one of the oldest and most reputed departments in the institute. It offers a comprehensive B.Tech in Mechanical Engineering, blending deep theoretical knowledge with extensive practical experience. The department is dedicated to producing engineers who are technically sound, innovative, and industry-ready.

Program Offered

B.Tech in Mechanical Engineering
- Duration: 4 Years (8 Semesters)

M.Tech in Mechanical Engineering
- Duration: 2 Years (4 Semesters)
- Affiliated to MAKAUT, West Bengal
- Approved by AICTE | NBA Accredited

Intake	
B.Tech: 120	***M.Tech: 18***

Career Prospects

- Design Engineer
- Thermal Engineer
- Maintenance & Production Engineer
- Automotive Engineer
- Aerospace & Marine Engineer
- R&D Associate
- Project Manager or Civil Services Aspirant

Admission Process

- **B.Tech. Eligibility:** 10+2 with Physics, Chemistry, and Mathematics
- **Entrance Exams:** WBJEE / JEE Main / JELET for Lateral Admission
- **Selection:** Through centralized counseling based on entrance merit/rank
- **M.Tech. Eligibility:** B.E./B.Tech in Mechanical / Production / Industrial / Automobile Engineering
- **Entrance Exams:** GATE / PGET (MAKAUT)
- **Selection:** Through centralized counseling or institute merit list based on rank/performance

Labs & Facilities

- Applied Mechanics Lab
- Fluid Mechanics & Thermal Engineering Lab
- Machine Tools & Manufacturing Labs
- CAD/CAM Lab with SolidWorks, AutoCAD, ANSYS
- Mechatronics & Robotics Lab
- Central Workshop Facility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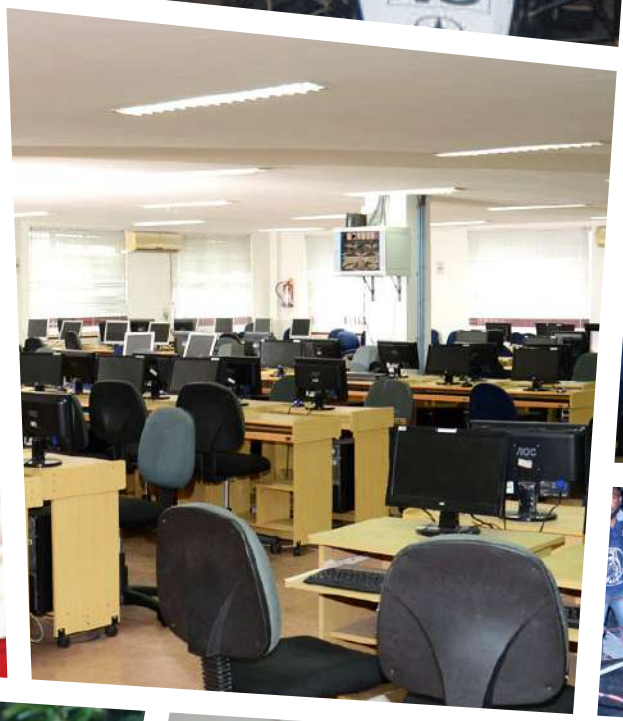



Ashneer G


LECTURE ON INDIAN COAST GUARD
PANCH PRAN OF AMRIT KAAL

MSME HIT INCUBATION CENTRE

- Haldia Institute of Technology (HIT) is recognized as “Host Institute” by the Ministry of Micro , Small & Medium Industries in the year 2022.Host Institute has the responsibilityto set up Business Incubator (BI) and provides the space, equipment, lab and all the auxiliary support to the incubate for nurture of his ideas for the business activities.
- HIT would be provided financial assistance up to Rs 1 Cr for Plant & Machinery.
- For the ideas approved of any MSME/students/others, up to 15 Lakhs will be provided for implementing the ideas.

MSME IDEA HACKATHON 2022

- **Pijus Kanti Khatua**: Low cost composite toilet door using renewable fast growing cellulose material jute with thermosetting resin adhesive
- **Radharani Das:** Production of SiO2 Nano Powder from Rice Husk (Crop Residue) for its Industrial Uses Waste to Wealth
- **Mukesh Singh**: Development of nano- composite film as a packaging material enhancing shelf-life and sensing microbial contamination of cut vegetables and fruits
- **Tarun Kanti Jana**: Development of Cyber Physical Machine Tool
- **Siddhartha Samanta:** Conducting polymer based water purifiers that are removed heavy metal ions such as As(V), As(III), Pb(II), Hg(II), Cr(VI) from waste water.
- **Swati Ray:** Agri-Tech SaaS, for Logistics supply chain with Storage management.
- **Payel Chatterjee**: Guardian gem IOT based woman safety band
- **Hrishikesh Ray:** Agri-Tech SaaS, for Logistics supply chain with Storage management

MSME IDEA HACKATHON 2.0

- **Debasis Maji:** Prevalence of Diabetic Retinopathy and its Associated Factors in a Rural Area Based on Deep Learning for Computer aided Diagnosis
- **Tapas Kumar Manna:** Development of Solar powered zero discharge roof top water purification system for domestic and Industrial use
- **Pijus Kanti Khatua:** Development of modified chimney to arrest carbon dioxide gas and carbon soot from different industrial chimney
- **Suman Jana:** Bamboo fibre reinforced biodegradable plastic bag

Who Can Participate?

- B.Tech and M.Tech students
- Faculty members & research scholars
- Startups incubated within the institute
- External innovators

MSME IDEA HACKATHON 3.0

- **Payel Chatterjee:** Guardian gem IOT based woman safety band
- **Sayantani Chall:** Separation of poisonous phenol from drain water excreted by different resin plants in India
- **Pijus Kanti Khatua:** Development of modified chimney to arrest carbon dioxide gas and carbon soot from different industrial chimney
- **Aditi Sinha:** Rechargeable smart water purification system for wide ranges of feed water
- **Shashi Biswas:** Production of biodiesel from repurpose used

EDUCATION THROUGH INNOVATION

At Haldia Institute of Technology, we believe that education is not just about acquiring knowledge — it's about transforming ideas into solutions. Our approach, Education Through Innovation, ensures that every student is empowered to think critically, question boldly, and create fearlessly.

Our Approach

- **Interdisciplinary Learning:** Bridging engineering, science, and entrepreneurship to encourage creative thinking across fields.
- **Hands-On Curriculum:** Project-based learning, industry case studies, and simulation tools embedded in every program.
- **Research & Development:** Active R&D cells and innovation labs in AI, IoT, cybersecurity, biotechnology, and sustainable technologies.
- **Incubation & Startups:** A dedicated MSME Business Incubation Centre supports student-led innovations from ideation to enterprise.
- **Faculty as Mentors:** Experienced mentors foster a spirit of curiosity and guide students in publishing, prototyping, and patenting.
- **Global Trends, Local Impact:** We emphasize technology-driven solutions that address community needs and align with India's development goals.

Outcomes That Matter

- Patented Student Innovations
- National-Level Hackathon Wins
- Startup Launches via Campus Incubation
- Collaborations with Industry, Research Labs, and Government Bodies
- Research Papers in Reputed Journals

The HIT Promise

At HIT, innovation isn't a department—it's a culture. Every student is trained not just to keep up with the future, but to create it.

Industry–Academia Relatioship

Bridging Innovation with Industry Excellence

At Haldia Institute of Technology (HIT), we recognize that a robust partnership between academia and industry is pivotal for cultivating industry-ready professionals. Our strategic location in the heart of Haldia's industrial hub offers unparalleled opportunities for collaboration, enabling our students and faculty to engage directly with leading industries.

Key Initiatives

- **Industry-Institute Partnership Cell (IIPC):** HIT has established an active IIPC to foster meaningful interactions between academia and industry. This cell facilitates collaborative research, industrial visits, workshops, and seminars, enriching the educational experience and aligning it with real-world applications
- **Memorandums of Understanding (MoUs):** We have formalized partnerships with several esteemed institutions and organizations, including:
- **Indian Institute of Engineering Science & Technology (IIEST), Shibpur**
- **National Institute of Electronics and Information Technology (NIELIT), Kolkata**
- **Ming Chi University of Technology, Taiwan**
- **KIIT Technology Business Incubator (KIIT-TBI), Bhubaneswar**

Research Collaborations

Our departments actively engage in research projects sponsored by prestigious organizations such as DST, CSIR, DBT, AICTE, and UGC. Collaborations with top-tier academic centers like IIT Kharagpur, Jadavpur University, NIT Durgapur, and the University of Calcutta further enhance our research capabilities.

Industry–Academia Relatioship

Industrial Projects

Name of Project / Consultancy	Funding Agency	Principal Investigator & CoPI	Dept. Involved
Study of Tribological Behavior of Electroless Nickel Alloy and Poly-Alloy Coatings	CSIR	Dr. Supriyo Roy (PI), Dr. Goutam Kumar Bose (Co-PI)	ME
Investigation of reaction rate of the nuclear reaction 9Be (alpha)12C at the time of type 2 supernova explosion	CSIR	Dr. Dibyadyuti Pramanik	SASH
Microgel of sugar based heteroaromatic moieties: Synthesis, Mechanism of gelation, antibacterial potency and computational study	SERB (TARE) 27.01.2023	Dr. Gourisankar Roymahaopatra, Mentor: Dr. Jhuma Ganguly, IIEST-Shibpur	SASH
Development of advanced dashboard for PV power generation and auto-classification of the EL images	SunKonnect Pte.Ltd., Singapore 05.06.2023	Dr. Biswajit Mandal	CHE
Study and suggest Coke tray base plate MOC for TATA Steel HMC Division Haldia	TATA Steel Haldia 05.05.2023	Prof. Goutam Kr. Bose	ME
The Data-Driven Agriculture Model to Mitigate Climate Change Impact on the Rice Crop in Indo ASIAN countries	ASIAN-India S&T Development Fund(SERB) 22.03.2024	Dr. Arindam Giri	CSE
Rooftop solar photovoltaic deep neural network controller-based vector control PMSM drive system for modern multipurpose agricultural application	ASIAN-India S&T Development Fund(SERB) 22.03.2024	Dr. Arindam Giri	CSE

Industrial Consultancy / Training Programs

Name of the Consultancy Project	Industry Name & Address	Concerned PI
Induction Training Program for Officers of Indian Oil Corporation Limited, Haldia Refinery	Haldia Refinery	Dr. Saumya Bera
Residual life analysis of 5 jetties of Kolkata Port Trust, Haldia	Kolkata Port Trust	Civil Engineering
Extension project for Berth no 6 of Haldia Dock Complex of worth Rs 5.5 lakhs.	Kolkata Port Trust	Civil Engineering
Design and fabricate the industrial model of equipment (Bag filter & Cyclone Separator)	Projects & Environment, An ISO 9001:2015 Certified Company	Dr. Biswajit Mandal, CHE
Development of different spice blends for commercial pplications with AKC Foods Pvt. Ltd.	AKC Foods Pvt. Ltd.	Gourab Chatterjee, FT
IOT integrated industrial and domestic pollution monitoring device	Terra -green Technologies Pvt. Ltd., Kolkata	CHE
Hands on Program on Engineering Drawing for Non-Executives HR, IOCL Haldia	IOCL, Haldia	ME

Placement Achievements

EMPOWERING CAREERS, BUILDING FUTURES

Placement Highlights

Placement Rate: Approximately 89.48% of eligible students placed.
Highest Package: INR 45 LPA offered by Amazon.
Average Package: Between INR 4.5–5 LPA across departments.

Our Top Recruiters:

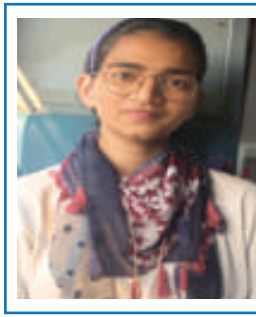
Berger Paints	LTIMindtree	accenture	adani wilmar	Infosys	AEGIS
Cognizant	Himadri	ITC Limited	IBM	HALDIA PETROCHEMICALS LTD	Simplex
EY	Tech Mahindra	TOPCEM Mazbooti ka bharosa...hamesha	Johnson Controls	HEL HALDIA ENERGY LIMITED	Deloitte.
wipro	tcs TATA CONSULTANCY SERVICES	Jio bp	JSW	TATA CONSULTING ENGINEERS LIMITED	Gulf

and many more..

Training & Placement Cell

REMARKABLE PLACEMENT

Abhishek Chandra Thakur
CSE (Cyber Security) 21-24
Synopsys (10 LPA)



Khusboo Khan
Electronics & Instrumentation Eng 21-24
Hindusthan Unilever LTD (10 LPA)

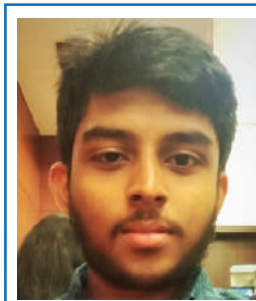
Pritam Kar
Mechanical Engineering 21-24
Haldia Energy LTD. (8.45 LPA)

Pratik Maity
CSE (Cyber Security) 21-24
Synopsys (10 LPA)

Biswajit Debnath
Information Technology 21-24
Synopsys (10 LPA)

HIGHER PACKAGE OFFER

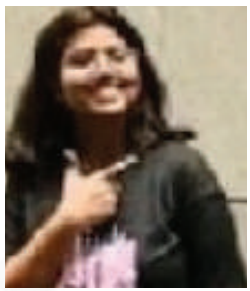
Gyanesh Gunjan
Amazon, (45 LPA), 2021



Apratim Ranjan Chakrabarty
Gojek, (35 LPA), 2021

Gaurav Kumar
Goldman Sachs, (20 LPA), 2021

Pallavi Kumari
Amazon, (30 LPA), 2021



Shreya Zamindar
Amazon, (30 LPA), 2021

Alumni Network

PROUD PAST. POWERFUL PRESENCE.

At Haldia Institute of Technology, our alumni are a testament to our legacy of excellence. Since 1996, HIT graduates have gone on to become leaders, innovators, researchers, entrepreneurs, and educators across the globe. They continue to inspire, support, and uplift the HIT community.

Honoring Distinguished Alumni

Dr. Chiranjib Koley
Associate Professor,
NIT Durgapur
Batch: 1996-2000

Dr. Indrani Kar
Associate Professor,
IIT Guwahati
Batch: 1996-2000

Mr. Sambuddha Khan
Research Specialist,
University of California, Irvine
Batch: 1999-2003

Debabrata Bhaskar
Engineer, ONGC, India
Batch: 1999-2003

Mr. Suvendu Jana
Scientist, ISRO, Bangalore
Batch 2000-2004

Mr. Hirakjyoti Bishnu
Director,
Associated Toolings (India) Pvt Ltd
Batch 2001-2005

Mr. Prasun Nag
Scientist/Engineer,
CHANDRYAN 3, ISRO
Batch 2002-2006

Soumavo Roy
Senior Engineer at Intel Security
Batch: 2004-2008

Dr. M. Chatterjee
Process Engineer,
Intel Corporation
Portland, Oregon Area
Batch 2004-2008

Dr. Arpan Kumar Mondal
Faculty, NITTTR, Kolkata.
Batch 2005-2009

Mr. Avijit Mitra
Scientist/Engineer,
CHANDRYAN 3, ISRO
Batch 2005-2009

Dr. Santanu Sarkar
Principal Researcher,
Environment Research Group R&D,
Tata Steel Ltd, India
Batch 2005-2009

Reetam Sinha
Senior Analyst at KPMG,
Demographic info, Bengaluru
Batch: 2006-2010

Geetanjali Rakshit
PhD at IIT Mumbai
M.E. at BITS Pilani
Batch: 2006-2010

Mr. Barun Biswas
Design Engineer,
CHANDRYAN 3, ISRO
Batch 2007-2011

Mr. Pritam Dey
PARTNER, TECHNO ENGINEERING
Batch 2007-2011

TIPU SULTAN
Scientific Officer,
Bhabha Atomic Research Centre
Batch: 2007-2011

Durgesh Kumar
PhD at IIT Guwahati
Batch: 2008-2012

Mrs. Pallavi Saha
Senior Quality Manager,
TATA CUMMINS
Batch: 2008-2012

Subit Chakrabarti
Research Assistant,
Centre for Remote Sensing,
University of Florida, USA
Batch: 2008-2012

Dr. Sidharth Tamang
Assitant Professor,
IIT Kharagpur
Batch 2008-2012

Souradyuti Coondo
IOS Developer , IBM,
Bangalore, India
Batch: 2008-2012

Subhasree Mukherjee
PhD at IIM Kozhikode
Batch: 2008-2012

Suraj Gupta
Planit Test Management Solution in
Melbourne, Australia
Batch: 2009-2013

Sneha Meshram
Team Lead
in Infosys Limited
Batch: 2009-2013

Writtik Dey
Senior Software Engineer,
Walmart
Batch: 2009-2013

Rohit Kumar
Relationship Manager for MSME
State Bank Of India,
Batch: 2009-2013

Avinash Lal Dass
Quality Specialist IIA in
Bank of America
Continuum India Pvt Ltd
Batch: 2009-2013

Dr. Sourabh Paul
Associate Professor,
University of Hertfordshire
Batch 2010-2014

Shubhankar Shubham
Captain, Ministry of Defence,
Indian Army
Batch: 2013-2017

Anunay Singh
Senior Design Engineer,
Johnson Controls
Batch: 2015-2019

Arnab Bose
Senior Design Engineer,
Johnson Controls
Batch: 2015-2019

Price Gautam
Executive Engineer,
Yokogawa
Batch: 2015-2019

Amisha Sinha
Software Developer, Oracle
Batch: 2015-2019

Suryansh
Application Developer,
Oracle Finnancial
Services Software LTD
Batch: 2016-2020

Ms. Arunima Mondal
Process Engineer,
Officer Grade A
IOCL, Haldia Refinery
Batch :2018-2022

Ayan Sarkar
Software Engineer
Synopsys Software Integrity,
Bangalore, Batch: 2020-2024

Biswajit Debnath
Professional Service Consultant
BlackDuck, Bangalore
Batch: 2020-2024

Avik Ghosh
Professional Service Consultant,
BlackDuck,Bangalore
Batch: 2020-2024

Souvick Mazumdar
TCS, Prime
Batch: 2024

Sayani Gorai
TCS, Digital
Batch: 2024

Arajit Ghosh
TCS, Digital
Batch: 2024

Ankan Bhaumik
Infosys, Specialist Programmer
Batch: 2024

Niraj Kr Mahato
Executive,
Haldia Energy Limited
Batch: 2024

LIFE BEYOND ACADEMICS
SOCIAL ACTIVITIES AT HIT

At Haldia Institute of Technology, education goes beyond classrooms and laboratories. We believe in shaping well-rounded individuals who are socially conscious, empathetic, and actively involved in community building.

Key Activities

NSS (National Service Scheme)
Students regularly organize blood donation camps, environmental drives, health check-ups, and awareness campaigns in nearby villages.

Community Development Programs
HIT students participate in literacy missions, sanitation awareness, and digital education camps for underprivileged sections.

Swachh Bharat Initiatives
Cleanliness drives on and off campus are regularly led by students to support the nation's mission.

Disaster Relief & Volunteering
HIT volunteers have contributed to relief efforts during natural calamities through food distribution, shelter support, and awareness.

Green Campus Movement
Tree plantation drives, waste management awareness, and energy conservation efforts are organized to promote eco-conscious living.

SAMARPAN (Community Service Club)

HIT NEED (Community Service Club)

STUDENT CLUBS & SOCIAL IMPACT

The student clubs at Haldia Institute of Technology play a crucial role in fostering a well-rounded academic and social experience for students. With a diverse range of clubs across technical, non-technical, cultural, and social domains, these clubs provide students with opportunities to enhance their skills, collaborate, and make a tangible impact on society. They actively engage in organizing events, workshops, and outreach programs, promoting personal development and community involvement. These clubs not only contribute to the students' holistic growth but also help in building leadership and teamwork abilities. Through their various initiatives, they create lasting social impacts both within the institution and in the larger community.

NAME OF THE CLUBS

THE HIT TIMES (Media Club)
HITIAN INSIDE
ME CLUB
MANAB RACINGIEEE-MTTS HIT SBC
ACM HIT Student Chapter
Data Science Club HIT
AEROMACH
AIML-Club
Civil EPOCH
Computer Society of India
IICHE Students Chapter
IEEE HIT SB
IETE Student Branch
HIT Students Chapter Microbilogists Society
Illuminate
ISTE HIT Chapter (WB017)
GDGC HIT Google Developers Students Club
ISA & ISOI (Student Chapter
E CELL
Photography Club Of HIT
Chitrang (Art & Craft Club)
Nirvaana HIT (Music Club)
Kolkata Bookworms HIT
INSYNC (Dance Club)
HIT Chess Club
Taruguardians (Sustainable Development)
Eklavya (Animal Welfare Club)
Bezuban (Animal Welfare Club)
IARTEFACTS (Cultural Club)
NIVEDITA (Literary Club)

Anti-Ragging Policy at HIT

Ragging is strictly banned at Haldia Institute of Technology as per Supreme Court and UGC guidelines. The institute follows a zero-tolerance approach toward all forms of ragging—physical, verbal, emotional, or cyber. Strict disciplinary action, including suspension or legal proceedings, will be taken against offenders. HIT is committed to maintaining a safe and respectful environment for all students.

As per government norms, all students and their parents/guardians must submit signed anti-ragging affidavits. These must be attested by an Oath Commissioner and submitted at the time of registration. Affidavits confirm awareness of anti-ragging laws and their consequences. This step ensures a campus culture of dignity, safety, and mutual respect.

Institute Anti-Ragging Committee

The committee ensures a safe, ragging-free campus through awareness drives, counselling, monitoring, and preventive actions.

HALDIA INSTITUTE OF TECHNOLOGY,

Knowledge City, ICARE COMPLEX, HIT Campus
PO.: HIT, Haldia, Dist: Purba Midnapur, West Bengal, PIN: 721657, India
Corporate Office: 2nd floor, 54 Harish Mukherjee Road, Bhawanipur, Kolkata - 700025
E-mail: ***admin@hithaldia.in***

Admission Helpline
8583937675 | 8942031627 | 7477799279
9434453140 | 03224-252900/255616

www.hithaldia.in