





W W W . G K C I E T . A C . I N

Ghani Khan Choudhury Institute of Engineering and Technology

Department of Mechanical Engineering

PLACEMENTBROCHURE2024-25



OUR LOCATION

Malda, West Bengal, 732141

CALL US 8619034984











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Training & Placement Cell
Dept. of Mechanical Engineering





Welcome to the Ghani Khan Choudhury Institute of Engineering and Technology!

Ghani Khan Choudhury Institute of Engineering and Technology was established in 2010 by the Ministry of Human Resource Development, Government of India with an innovative modular pattern of formal technical education, so as to meet the technical manpower requirements of the region, in particular, and of the Country, in general, at different levels; as well as nonformal education to prepare the skilled and qualified manpower for selfemployment as well as industrial employment. These levels include skilled manpower, supervisory level technical personnel and Junior/middle managerial level technical personnel. Whatever budding problems/issues the institute has faced in its formative years have been resolved during 2017-18 and the institute obtained affiliation to Maulana Abul Kalam Azad University of Technology (MAKAUT) In May, 2018. With the affiliation of Diploma courses under WBSCT &VE & SD; first batch of students were admitted in 3-year diploma courses and 4-year B. Tech courses from the Academic Year 2018-19. The present management is firmly committed to achieve the objectives envisioned in its establishment and fulfill the aspirations of the stakeholders of the region under the modified academic regime.

Prof. Siby John Director, GKCIET





Dear Recruiters,

It is with immense pride and pleasure that I extend a warm welcome to you on behalf of the Mechanical Engineering Department at Ghani Khan Choudhury Institute of Engineering and Technology (GKCIET). Our department has been a foundational stream in academic excellence and professional grooming, preparing students to excel in the dynamic and challenging field of mechanical engineering. At GKCIET, we believe in a holistic approach to education, combining robust theoretical knowledge with practical application. Our students are equipped with strong technical skills, innovative problem-solving abilities, and a keen understanding of industry needs. Through rigorous coursework, state-of-the-art laboratories, and industry collaborations, we strive to foster an environment of continuous learning and growth.

Our students have proven their mettle time and again in academics, research, and co-curricular activities. They are not just engineers but future leaders, ready to contribute effectively to your organization's growth and success. We are confident that they possess the technical proficiency, adaptability, and work ethics required to excel in diverse professional settings.

We invite you to explore the potential of our students and provide them with an opportunity to contribute to your esteemed organization. We assure you that their dedication, innovation, and commitment will be a valuable asset to your team. Thank you for considering our talented pool of engineers. We look forward to fostering a fruitful and enduring partnership with your organization.

> Dr. M. Mohan Jagadeesh Kumar HoD, ME

Dean's Essage



As the Academic Dean of GKCIET, I am proud to oversee a vibrant community dedicated to excellence in education and holistic development. Our Training and Placement Cell is a crucial part of this commitment, focusing on preparing students not only academically but also professionally for the challenges ahead.

We strive to create an environment where students can thrive, developing the necessary skills to meet industry demands. Through workshops, internships, and industry interactions, we ensure that our students are wellprepared to enter the workforce with confidence.

Our goal is to nurture innovative thinkers and skilled professionals who will contribute to society and drive advancements in their fields. I encourage all students to take full advantage of the resources available to them and to engage actively in their personal and professional growth.

Wishing all our students a successful journey ahead.

Prof. Kshirod Kumar Dash
Dean (Academic, Planning and Development)
GKCIET

ABOUT THE INSTITUTE

1. OVERVIEW

Ghani Khan Choudhury Institute of Engineering and Technology (GKCIET), Malda started its journey in 2010 with one of the visions to meet technical manpower requirements of the society and of the country at different levels. Mechanical Engineering is one of the premier disciplines/departments of this Institute towards fulfilling the vision. At present, this department is offering undergraduate programs at different levels - 3 years diploma and 4 years B. Tech following the industry-academic oriented curricula as per AICTE and affiliating Council and University, respectively. The diploma program is affiliated to the West Bengal State Council of Technical & Vocational Education and Skill Development (WBSCT&VE&SD), Kolkata, and B. Tech program is affiliated to the Maulana Abul Kalam Azad University of Technology (MAKAUT), West Bengal.

department is well equipped with its laboratories, workshops, computational laboratories & other necessities besides its leading by the active and dynamic faculty and staff members under the leadership of Hon'ble Director, Prof. Siby John and his administration. It caters Engineering Sciences mainly in Design Engineering, Thermal Engineering, Industrial Engineering and Production & Manufacturing. It has grown steadily since the beginning in all fields especially in teaching, and flourishing in research and publication also. Together with teaching & research, it trains its students facilitating learning tools (like IGNITE: Industry 4.0, Growth, Networking, Innovation Technology & Entrepreneurs Center of Excellence - an Industry & Emerging Technology based software) to know about industry, its products & problems, technology worldwide, and the developing internships/trainings- which leads students' to meet the current industrial needs as well as need of the society. Towards creating a techno-mixed culture in the department, it organizes inter-disciplinary training to different parts of the society such as the BSF employees, Nirman Sahayaks & Rural Engineering Mentors etc.

ABOUT THE DEPARTMENT OF MECHANICAL ENGINEERING



1.1 VISION

To be recognized as a centre of excellence in mechanical engineering, for education, research and development and serve the national and international societies with professional ethics.

1.2 MISSION

M1: To impart qualitytechnical education in the field of mechanical engineering and get recognition at national and international level.

M2: To enable students, to pursue higher education/professional career / entrepreneurship in mechanical engineering, by inculcating better technical skills and competencies.

M3: To promote conglomeration of research and innovations in the designand manufacturing of advanced mechanical systems.

M4: To encourage students to involve in critical thinking, project development and continuous learning with the motive to solve real time complex issues in the field of mechanical engineering.

M5: To createresearch-oriented environment and centre of excellence in design, manufacturing and thermal sciences for contributing towardsMake in India, Made in India and Atmanirbhar Bharat.

1.3 MAJOR RESEARCH AREAS IN DEPT. OF MECHANICAL ENGINEERING

Both teachers and students of this department are actively involved in research and publishing of their works in reputed journals, conferences, workshops, seminars etc. The following are the major research areas carried out by the departmental faculty and students.

- Composite Materials, Manufacturing Processes, Non-Conventional Machining Processes
- Engineering Materials
- Design & Robotics
- Metal Casting Process
- Study and Modeling of Advanced Manufacturing Process/Semi-solid Processing
- Development of EnergyEfficient Buildings (GreenBuildings)
- Computational Fluid Dynamics(CFD) and Heat Transfer
- Applications in Thermo-Fluid Engineering
- Alternative Fuels and Renewable EnergyConversion
- Combustion in Engines, and
- Fluid Power Control

PROGRAMME OFFERED

B.TECH

Mechanical
Engineering Student
Intake 60

Admission Mode: JEE Mains/ WBJEE



DIPLOMA

Mechanical
Engineering Student
Intake 30

Admission Mode:

JEXPO & GET



SKILL DEVELOPMENT COURSES

Mechanical

Engineering

(various Job Role)

Student Intake 70

Admission Mode:

Skill India

(PMKVY4.0) &

WBSCTVESD (STC)





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Training & Placement Cell Dept. of Mechanical Engineering

Departmental Activities





A team of members of the Robotics Club has participated in the "Drone Dance Championship" organized by BIAG India. The team has ranked 2nd in 1st National Drone Dance Completion under International Aviation Games Board, India.



Advanced Automotive Technician Training for BSF Employee



Cleaning Activity under the aegis of Swachchha Bharat Mission



FACULTY DEVELOPMENT PROGRAM



DEPARTMENTAL ACHIEVEMENT







GRAND FINALIST AT SIH 2024
Team – Eco Tech Wizard
Project Name – AI Enabled Green Energy Vacuum
Solar Dryer for Medicinal Herbs
Students – Utshali Bhattacharjee,
Arindam Paul



GRAND FINALISTS AT HST 2023

Project Name - False News Detector: Developed during the IIT Mandi hackathon using Python and FLASK Students - Sameer Abasthi, Arindam Paul, Abhishek Saha, Anish Mohite



Dr. M Mohan Jagdeesh Kumar presented a technical paper entitled "" at ENERGYCON-2024 held in Qatar University, Doha, Qatar.



Dr. Dharmeswar Dash presented a paper at ICSEE 2025" BITS Pilani, K.K. Birla Goa Campus



Dr. Dharmeswar Dash received appreciation Certificate for significantly contributing towards research and development activities of the institute



A team of Robotics Club members under the mentorship of Dr. Habib Masum ranked 3rd in the 2nd National Drone Ranking 2022 organized by BIAG.



Inauguration of DD Robocon 2023 using ROLiP at Thyagraj Stadium, New Delhi on 17th June 2023 where Dr. Habib Masum is assisting in operating the ROLiP



Dr. Santosh Kumar Dash received Best Paper Presentation award in the 2nd International Conference on Recent Innovations and Development in Mechanical Engineering. NIT Meghalaya.



Dr. Santosh Kumar Dash received appreciation Certificate for significantly contributing towards research and development activities of the institute



Dr. Nitesh Mondal presented a paper at ICSEE 2025" BITS Pilani, K.K. Birla Goa Campus



Dr. Nitesh Mondal presented a research paper in the 2nd International Conference on Recent Innovations and Development in Mechanical Engineering. NIT Meghalaya.

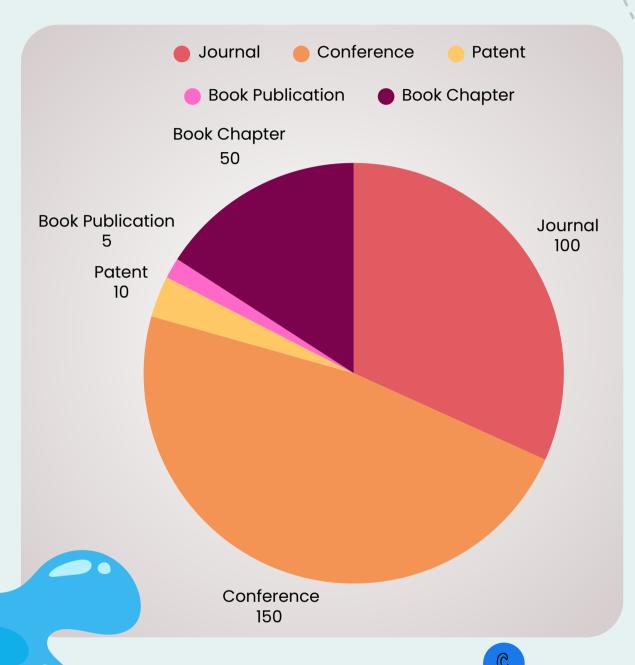






RESEARCH AND PUBLICATIONS









Departmental Laboratories





Thermal Engineering Lab.





Machine Shop and Advanced Machine Shop





Heat Transfer Lab.

Departmental Laboratories



Fluid Mechanics and Machineries Lab.



Engineering Mechanics and Dynamics Lab.



Departmental Laboratories



Casting / Foundry Shop



Forging Shop



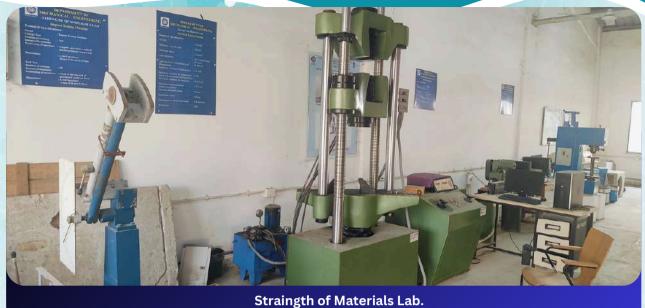








Departmental Laboratories 🗼











Major Lab. Equipment



Name of the Laboratory	Major Equipment
Automobile Lab	A Model for Mechanical Linkage Type Steering, A Model for Power Steering, A Model for Differential Unit, A Model for Suspension System, A Model for Hydraulic Brake Systems, Exhaust Gas Analyser
Refrigeration & Air Conditioning Lab	Air Conditioning Test Rig, Window AC. Test Rig, Water Cooler Test Rig, Ice Plant Test Rig, RAC Control (Model-MISC), Refrigeration Test Rig, Hemispherical Cut-Section of Compressor.
Thermodynamics & Thermal Engineering Lab	Single Cylinder 4-Stroke Petrol Engine Test Rig, 4-Cylinder 4- Stroke Petrol Engine Test Rig attached with a Hydraulic Break Dynamometer and digital Load Indicator, Two Stage Reciprocating Air Compressor Test Rig.
Heat & Mass Transfer Lab	Measuring Thermal Conductivity of Metal Rod, Heat Transfer Phenomena in Natural Convection, Heat Transfer Phenomena in Forced Convection, Shell & Tube Heat Exchanger Apparatus, Emissivity Measuring Apparatus, Heat Transfer through a Pin Fin, Stefan Boltzmann's Apparatus
Applied Mechanics Lab	Universal Force Table, Jib Crane Apparatus, Parallel Forces Apparatus: Overhang Beam Type, Inclined Plane Apparatus, Differential Pulley Block (Model)
Design of Machine Elements Lab	Simple Gear Train Mechanism, Compound Gear Train Mechanism, Wheel and Differential Axle - 30cm (Without weight), Screw Jack, Worm & Worm Wheel.
Machine Dynamics Lab	Cam Analysis Apparatus, Motorised Epicyclic Gear Train Apparatus, Static & Dynamic Balancing Apparatus, Motorised Gyroscope Test Rig, Universal Governor Apparatus, Universal Vibration Apparatus.
Fluid Mechanics & Hydraulics Lab	Closed Circuit Venturimeter Test Rig, Closed Circuit Pipe Friction Apparatus, Closed Circuit Pitot Tube Apparatus, Pelton Turbine Test Rig, Closed Circuit Single Stage Multispeed Centrifugal Pump Test Rig, Closed Circuit Reciprocating Pump Test Rig.



Major Lab. Equipment



	Name of the Laboratory	Major Equipment
	Strength of Materials Lab	Izod & Charpy Impact Testing Machine, Universal Testing Machine (UTM), Brinel Hardness Tester, Torsion Test Machine
Co	omputational Lab/ CAD & CAM	Personal Computers: 40, Softwares: ANSYS R24, Solid Works
A	Machine and dvanced Machine Shop	Lathes, Shaper M/C, Milling M/C, Surface Grinder, Power Saw, Vertical Drilling M/C, Bench Grinder, CNC Lathe, Electric Discharge Machine.
Fit	ttings & Carpentry Shop	Power saw M/C, Bench grinder M/C, PillarDrill M/c, Table Mounted Surface Plate, Floor Mounted Surface Plate, Bench Vice, Pipe Vice.
	Advanced Carpentry Shop	Wood Turning Lathe, Wood Surface Labelling M/c, Circular Sawing M/c, Multipurpose Wood Working Machine (6-in-1), Make-Wood Master, Model-Wm157, Vertical Drilling M/c, Bench Grinder, Jig Saw Machine 24"
	Welding Shop	Gas Welding and Cutting, Arc Welding M/c, TIG, MIG, Spot Welding, Double Arc Welding M/c, XP-WM-200A Welding machine Xtra power, Arc welding machine 250 Amps
5	Smithy & Forging Shop	Power Hammer, Open Heart Furnace, Anvil, Swage Block, Leg Vice, Bench Grinder.
S	Sheet Metal Shop	Sheet Bending M/c, Sheet Sharing M/c, Pipe Bending M/c.
(Metrology & Material Characterization Lab	Double Disc Polishing Machine, M Trinocular Research Microscope Vision Plus, Outside Micrometer, Sine bar, Depth Micrometer, Dial Gauge indicator, Dial Bore Gauge, Vernier Bevel Protractor, Gear Tooth Vernier Calliper, Digital Vernier Calliper, Magnetic Stand, Radius Gauge, Slip Gauge, Angle Gauge Set
	Foundry Shop	Induction Furnace (Tilting and pouring), Muffle Furnace, Crucible (Graphite), Metal Mould (rectangular, cylindrical, & Hexagonal), Core Mixture

Course Structure of B Tech



Lab

- Basic Electrical Engineering Laboratory Workshop/Manufacturing Practices
- Programming for Problem Solving
- Engineering Graphics & Design (Gr-A)
- Engineering Graphics & Design (Gr-B)
- Workshop/Manufacturing Practices (Gr-B)
- Practice of Manufacturing Processes
- Practice of Manufacturing Processes and Systems Laboratory
- Machine Drawing- I
- Mechanical Engineering Laboratory I (Thermal)
- Machine Drawing-II
- Mechanical Engineering Laboratory II (Design)
- Mechanical Engineering Laboratory III (Manufacturing)

Core

- Engineering Mechanics
- Thermodynamics
- Manufacturing Processes
- Practice of Manufacturing Processes
- Materials Engineering
- Applied Thermodynamics
- Fluid Mechanics &Fluid Machines
- Strength of Materials

- Metrology and Instrumentation
- Heat Transfer
- Solid Mechanics
- Kinematics & Theory of Machines
- Manufacturing Technology
- Design of Machine Elements
- Advanced Manufacturing Technology

Professional Elective

Thermo-Fluid Group

- Internal Combustion Engines and Gas Turbines
- Refrigeration and Air Conditioning
- Turbo Machinery
- Fluid Power Control
- Advanced Fluid Mechanics
- Automobile Engineering
- Gas Dynamics and Jet Propulsion
- Computational Fluid Dynamics
- Elements of Atmospheric Fluid Dynamics
- Analysis and Performance of Fluid Machines
- Power Plant Engineering
- Cryogenics
- Introduction to Wind Engineering

Design Group

- Composite Materials
- Mechatronics
- Selection and Testing of Materials
- Mechanical Vibration
- Finite Element Analysis
- Tribology
- o 3D Printing and Design

Manufacturing Group

- Robotics
- Material Handling
- Principles and Practices of Management
- Advanced Welding Technology
- Quantity Production Methods
- CAD/CAM
- Micro and Nano Manufacturing
- Process Planning and Cost Estimation
- Maintenance Engineering

Open Elective

- Industrial Engineering
- Project Management
- Introduction to Product Design and Development
- Non-conventional Energy Sources
- Biomechanics and Biomaterials
- Computational Methods in Engineering
- Artificial Intelligence (AI)
- Machine Learning
- Water Resource Engineering
- Total Quality Management
- Entrepreneurship Development
- Safety and Occupational Health
- Industrial Pollution and Control
- Energy Conservation and
- Management
- Waste to Energy- An Overview
- Automation & Control
- Internet of Things (IoT)
- Block Chain
- Cyber Security
- Quantum Computing
- Data Sciences
- Virtual Reality (VR)

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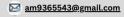


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A.P.J. ABDUL KALAM BLOCK READY TO SERVE (1))

ABOUT

TRAINING AND PLACEMENT CELL

The Training and Placement (T&P) Cell at GKCIET equips students for corporate challenges through comprehensive training programs that enhance technical and managerial skills. It offers counseling, hosts industry experts for motivational talks, and facilitates campus placements, ensuring students are prepared for diverse opportunities in India and abroad.

MISSION

our Mission is to train students on the needs of industry and provide them with the best opportunities available in India and abroad.

GOAL

The Goal of Training and Placement Cell is to provide career guidance and placement opportunities to cent per cent students studying in GKCIET.

VISION

To prepare engineers, innovators and entrepreneurs who makes crucial contributions for building important infrastructure for the Nation

TEAM OF TPO



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Notable

Placement Partners

TECH mahindra



Renewables



















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Notable

Internship/Training Providers































Students in Higher Studies



























Why Choose Us??

- Industry-Ready Skills
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- Expert Mentorship
- Strong Soft Skills
- Innovation & Research Focus
- Adaptable and job-ready

FOSTERING EXCELLENCE, DRIVING INNOVATION, AND ENHANCING INDUSTRY COLLABORATION

Sujapur সুজাপুর

Old Malda এল্ড মালদা Ghani Khan Choudhury Institute of... গণি খান চৌধুরী ইনস্টিটিউট অফ... Halna হালনা

Bolatuli Jame Masjid

বলাটুলী জামে মসজিদ





Reach Us

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Training & Placement Cell
Dept. of Mechanical Engineering