

MechLine @ MIT

BISHNUPUR



Voice of the Department

THE OFFICIAL NEWSLETTER OF MECHANICAL ENGINEERING DEPARTMENT
MALLABHUM INSTITUTE OF TECHNOLOGY



ABOUT THE DEPARTMENT

Mechanical Engineering Department came of this institute in 2004. It has strived so that its students excel both in corporate sector and research organizations at national and international level. The result itself suffices the evidential proof since 2008, the Department has produced many university toppers. A large number of students of the current batch, like previous batches, have qualified GATE and are expected to pursue higher studies. The department is providing state of the art infrastructure in all laboratories. The students are being trained to be familiar with software tools like Auto CAD, CREO 2.0 and Autodesk Inventor. The experienced and competent faculty members and technical support staff of this department are relentlessly exerting themselves for imparting updated knowledge to the students. In respect of Training & Placement, the passed out students are already well placed in various areas of Industry.



BATCH 2025

The Department of Mechanical Engineering at Mallabhum Institute of Technology proudly bids farewell to the outgoing Batch of 2025. These students have shown dedication, technical skill, and enthusiasm throughout their academic journey. From workshops to seminars, their active involvement has enriched the department. Many have secured placements in reputed companies, while others are pursuing higher studies or entrepreneurial ventures, reflecting the diverse ambitions of the batch.

We take immense pride in their growth and transformation into confident professionals ready to face the challenges of the industry and academia. As they step into a new chapter of life, we extend our heartfelt wishes for their future endeavors and hope they continue to carry the MIT legacy with honor and distinction.

Once a Mech, Always a Mech.

Department of Mechanical Engineering, MIT



Ms. Sampa Banerjee,
Chairperson, MIT

MESSAGE FROM CHAIRPERSON

It is with immense pride that I address you through the very first edition of our departmental publication at Mallabhum Institute of Technology. It is a matter of honor that the Mechanical Engineering Department has taken the pioneering step in this initiative. Our department has always embodied innovation, resilience, and academic excellence, and this milestone further strengthens that legacy. With evolving fields like automation, robotics, renewable energy, and smart manufacturing, we strive to prepare our students with future-ready skills. This newsletter reflects our collective creativity, achievements, and vision. Let us continue driving progress together.

EXECUTIVE DIRECTOR'S MESSAGE

It is a privilege to share my thoughts through this platform. The Department of Mechanical Engineering has long embodied innovation, dedication, and academic excellence. As one of the core pillars of engineering, it continues to nurture professionals prepared to contribute effectively to industry and society. In today's fast-changing technological era, mechanical engineers must combine strong fundamentals with adaptability to modern tools, sustainability, and interdisciplinary challenges. I am proud of the department's proactive steps—curriculum updates, research, industry engagement, and student-driven innovation. This newsletter reflects our journey and aspirations. Let us progress with curiosity, confidence, and excellence.



Er. Subrata Banerjee,
Executive Director, MIT



Prof (Dr.) A.K. Mukhopadhyay
Advisor, MIT

MESSAGE FROM ADVISOR

It gives me great pleasure to witness the steady growth and enthusiasm of the students in the Mechanical Engineering Department. Our goal has always been to nurture engineers who excel academically while being prepared for real-world challenges. Recent initiatives, such as the GATE and competitive examination preparation programs, highlight the department's dedication to holistic student development. I am delighted by the active participation and commitment of our students, which truly reflects their ambition and determination. I encourage you to continue embracing such opportunities. The department will always support your pursuit of excellence.

MESSAGE FROM PRINCIPAL'S DESK

It gives me great pleasure to share a few words with the Department of Mechanical Engineering. As one of the core branches of engineering, this department continues to serve as the backbone of innovation and industrial progress. I am delighted to see the active involvement of students and faculty in hands-on projects, research, and technical activities. Such dedication reflects the true essence of engineering—curiosity, creativity, and problem-solving. I encourage you all to keep exploring new horizons, supporting one another, and striving for excellence. May you achieve great success in all your future endeavors.



Dr. Manab Kumar Das
Principal, MIT



Mr. Suprakash Mondal,
HOD, ME, MIT

MESSAGE FROM HOD'S DESK

It is with immense pride and satisfaction that I address you through this platform. The Department of Mechanical Engineering has always stood as a symbol of strength, innovation, and lifelong learning. Rooted in strong fundamentals and aligned with emerging technologies, we remain committed to nurturing engineers who are both technically proficient and socially responsible. Beyond academics, our focus lies in hands-on learning, interdisciplinary collaboration, and industry engagement. This newsletter reflects the creativity, curiosity, and collaborative spirit of our department. I encourage all students to embrace opportunities, stay curious, and innovate with purpose as we continue shaping a brighter future together.

VISION, MISSION & OBJECTIVES

Vision

- To become a centre of academic excellence for achieving global Recognition in the field of Mechanical Engineering education by providing engineers of global standard and thrust for innovation.

Mission

1. To continuously improve the methods to educate, inspire and mentor students to excel as professionals of international standard.
2. To maintain state of the art facilities to provide collaborative environment that stimulates faculty, staff and students with opportunities to create, analyze, and disseminate knowledge.
3. To prepare the students with strong fundamental knowledge of the principles of Mechanical Engineering for diverse careers.
4. To provide the students in academic and scholarly activities which strengthen the Institute's regional, national and international reputation

Program Educational Objectives [PEOs]

PEO1: To acquire strong fundamental knowledge and expertise necessary for professional practice in the field of Mechanical Engineering and higher studies in a changing scenario of dynamic technology.

PEO2: To acquire and demonstrate essential technical skills to identify, analyze and solve complex engineering problems related to broad range of Mechanical Engineering and allied fields including design issues

PEO3: To possess professional attitude as an individual or a team member with consideration for societal, ethical, environmental factors and to get inspired for life---long learning

Program Specific Outcomes [PSOs]

PSO 1: Professional Skills: To develop the basic concepts of Mechanical Engineering and to apply the acquired knowledge in allied fields and projects.

PSO 2: Problem Solving Skills: To develop ability to accept challenges and apply Engineering for solving various complex problems in the area of Mechanical Engineering and allied fields using latest hardware and software tools.

PSO 3: Successful Career: To have social awareness and environmental wisdom with ethical responsibility to become successful in career and posses zeal for real life applications with optimum resources as an entrepreneur.

TOPPERS OF THE DEPARTMENT



DEBIPRASAD PATRA
ROLL: 15800721004



RAJA GHOSAL
ROLL: 15800722016



SURAJ GHOSH
ROLL: 15800721003



BATCH 2025

3rd Year



SAMIR SINGHA
ROLL: 15800722002

2nd Year



PATHIK GARAI
ROLL: 15800724098

1st Year

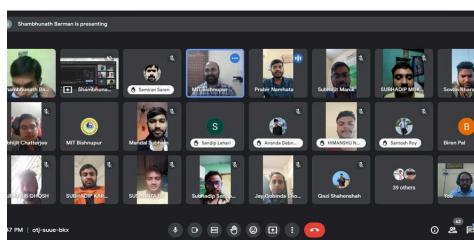


AYANJIT DUTTA
ROLL: 15800724004

YEARWISE TOPPER

ACTIVITIES OF THE DEPARTMENT

1. The Department of Mechanical Engineering, Mallabhum Institute of Technology, Bishnupur, Bankura, organized a National Webinar on "Turning Ideas into Impact: The Journey of a Start-up Founder" on 21st August 2024 at 3 PM. The session was graced by Mr. Subrata Mandal, Founder of Gyromatics Engineering, as the resource person. He shared valuable insights into the challenges and opportunities of entrepreneurship, highlighting how innovative ideas can be transformed into successful ventures. The interactive session inspired students to think creatively, embrace risks, and pursue start-up opportunities. The program concluded with an engaging Q&A session and a vote of thanks.



2. The Department of Mechanical Engineering, Mallabhum Institute of Technology, Bishnupur, Bankura, organized a National Seminar on "Impact of Automation & Digitalization on Industry" on 30th July 2024 at 11 AM. The seminar featured eminent speakers, Mr. Ashok Eluri and Mr. Anupam Nayak from Tata Steel Metaliks Division, who shared valuable perspectives on the transformative role of automation and digitalization in modern industries. They emphasized the growing importance of smart technologies in enhancing productivity, efficiency, and sustainability. The session witnessed active participation from students and faculty, followed by a lively interaction. The seminar concluded with a vote of thanks.



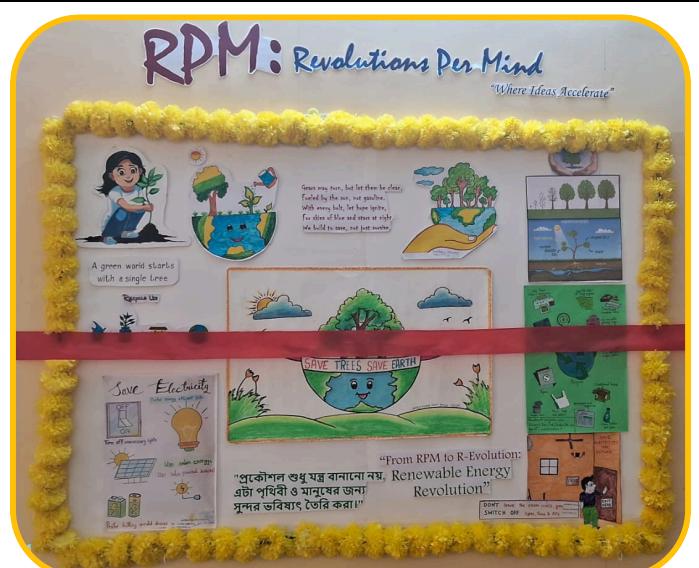
WALL MAGAZINE

The Department of Mechanical Engineering, Mallabhum Institute of Technology, proudly unveiled its first wall magazine, RPM: Revolutions Per Mind, on 12th March 2025. The magazine, themed "Green Energy & Save the World," provides a creative platform for students to express their technical ideas, innovations, and commitment to sustainability. The inauguration ceremony was graced by Dr. A.K. Mukhopadhyay (Advisor), Dr. Manab Kr. Das (Principal), Mr. Buddhadeb Ghosh (HOD, S&SS), Mr. Suprakash Mondal (HOD, ME), along with other departmental heads. RPM reflects the department's vision of nurturing innovation, raising environmental awareness, and inspiring engineering solutions for a sustainable future.



RPM: Revolutions Per Mind

"Where Ideas Accelerate"



STUDENTS ACHIEVEMENTS

STUDENT ACHIEVEMENT IN ECO INNOVATE CHALLENGE

Our students proudly participated in the "Eco Innovate" Energy Conservation Idea Challenge, a platform that encourages innovative thinking to address pressing energy and sustainability issues. Representing the Department of Mechanical Engineering, **Bidhan Chandra Murmu and Samir Singha** showcased their project on "**Solar-Powered Irrigation and Pesticides.**" Their impactful idea earned them third place in the competition, reflecting both their creativity and technical skills.

We extend our heartfelt congratulations to them on this remarkable achievement. Your success brings pride to the department and inspires fellow students to embrace innovation for a sustainable future.



Mallabhum Institute of Technology
Approved by A.I.C.T.E, Affiliated to M.A.K.U.T.
Campus: Braja Radhanagar, P.O.-Gossipur, P.S.-Bishnupur, Pin-722122

In Association with
INSTITUTION'S INNOVATION COUNCIL
(Ministry of IITD Initiative)

Invites creative minds to showcase revolutionary concepts in energy conservation in the
EcoInnovate
An Energy Conservation Idea Challenge
DECEMBER 16, 2024
Ramananda Hall, MIT, Bishnupur
Scan For Registration
<https://forms.gle/AGAvlnkVqpaN9Z>   
Contact: 8609700278 <https://www.facebook.com/mitbishnupurofficial20> Visit Us: mitbishnupur.ac.in

Institution's Innovation Council



EcoInnovate
An Energy Conservation Idea Challenge
DECEMBER 16, 2024
Champions

1st Position : Akash Ghosh and Kalyan Kundu
Idea title: Utilization of waste material for wireless transmission
2nd Position : Bishnu Majhi and Syed Arbab Shamim
Idea title: Automatic solar street light
3rd Position : Samir Singha and Bidhan Chandra Murmu
Idea title: Solar powered Irrigation and pesticides

Congratulations **We are proud of you!**
Mallabhum Institute of Technology
Approved by A.I.C.T.E, New Delhi and Affiliated to M.A.K.U.T, WB
Bishnupur, Bankura, W. B., 722122 | [www.mitbishnupur.ac.in](http://mitbishnupur.ac.in)



HIGHLIGHTED PROJECT

Project Title: Single Axis Solar Tracking system

Srikanta Kumbhakar-15800722116, Subhankar Charan- 15800722117,
Subhajit Tewary- 15800722119

Under the guidance of Prof. Animesh Nandi

Design a solar system by first calculating power needs. Select panels, batteries, and a charge controller based on those requirements. Integrate a sliding mechanism for seasonal tilt adjustment and a sun-tracking system for daily efficiency gains. Build all components into a portable, sturdy power unit. Finally, rigorously test and refine the system to ensure it reliably meets its intended application, like irrigation or off-grid power.

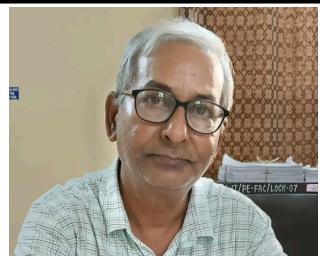
FACULTY ACHIEVEMENTS



MR. SUPRAKASH MONDAL,
ASST. PROF. & HOD, ME, MIT

- Innovation Ambassador training (Foundation level, Advance Level, Re-skilling Level and up-skilling level), MoE's Innovation Cell & AICTE, year 2024-25
- AICTE Training and Learning (ATAL) Academy Faculty Development Program on AI in Precision Agriculture and Smart Healthcare for Society 5.0, MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY WEST BENGAL, 03/02/2025 to 08/02/2025.
- Workshop under AICTE - Vibrant Advocacy for Advancement and Nurturing of Indian Languages (VAANI) on Building Inclusive Digital Solutions: AI, Ethics, and Beyond in Bengali language, ADAMAS UNIVERSITY TECHNICAL CAMPUS, 23/07/2025 to 25/07/2025.

- AICTE Training and Learning (ATAL) Academy Online FDP on "Industry 4.0 and Smart Manufacturing: Transforming Traditional Practices", NARULA INSTITUTE OF TECHNOLOGY, 2025-02-03 to 2025-02-08
- National level Online workshop on " Application and Development with AI & Essential Skills" Asansol Engineering College in association with Brainovision, 2025-06-23 to 2025-06-27



Dr. Samir Kumar Hati
Asso. Prof, Dept. of ME MIT



Dr. Abhijeet Chatterjee
Asst. Prof, Dept. of ME MIT

- NPTEL course based on "Basic of Finite element Analysis-II", Indian Institute of Technology, Kanpur. Jan-March, 2025
- NPTEL course based on "Acoustic Materials and Metamaterials", Indian Institute of Technology, Roorkee, Jan-March, 2025
- NPTEL course based on "Principles of Mechanical Measurement", Indian Institute of Technology, Guwahati, Jan-Apr, 2025
- NPTEL course based on "Noise control in Mechanical systems", Indian Institute of Technology, Roorkee, Jan-Apr, 2025
- AICTE ATAL FDP course based on "Industry 4.0 & Smart Manufacturing: Transforming Traditional practices" Narula Institute of Technology, from 03.02.2025 to 08.02.2025
- Workshop based on "Project writing for grants, how to write a project, applying for grants & Research paper writing", Research Foundation of India, 28.07.2025 to 29.07.2025
- FDP course based on "Product Design Engineering using Autodesk Fusion" Chaitanya Bharathi Institute of Technology (CBIT), Hyderabad, 28.07.2025 to 02.08.2025

- AICTE Training and Learning (ATAL) Academy Online FDP on "Industry 4.0 and Smart Manufacturing: Transforming Traditional Practices", NARULA INSTITUTE OF TECHNOLOGY, 2025-02-03 to 2025-02-08



Mr. Jamuna Prasad Kundu
Asst. Prof, Dept. of ME MIT

FACULTY ACHIEVEMENTS



Mr. Suman Mandal
Asst. Prof, Dept. of ME MIT

- AICTE Training and Learning (ATAL) Academy Online FDP on "Industry 4.0 and Smart Manufacturing: Transforming Traditional Practices", NARULA INSTITUTE OF TECHNOLOGY, 2025-02-03 to 2025-02-08



Mr. Animesh Nandi
Asst. Prof, Dept. of ME MIT

- AICTE Training and Learning (ATAL) Academy Online FDP on "Industry 4.0 and Smart Manufacturing: Transforming Traditional Practices", NARULA INSTITUTE OF TECHNOLOGY, 2025-02-03 to 2025-02-08



Mr. Tanmay Ghosh
Asst. Prof, Dept. of ME MIT

- AICTE Training and Learning (ATAL) Academy Online FDP on "Industry 4.0 and Smart Manufacturing: Transforming Traditional Practices", NARULA INSTITUTE OF TECHNOLOGY, 2025-02-03 to 2025-02-08
- STTP on "Industry 4.0: A Journey towards modern manufacturing", Department of Mechanical Engineering, NIR, Jamshedpur, 17.03.2025 to 21.03.2025,



Mr. Ramananda Sengupta
Asst. Prof, Dept. of ME MIT

- AICTE Training and Learning (ATAL) Academy Online FDP on "Industry 4.0 and Smart Manufacturing: Transforming Traditional Practices", NARULA INSTITUTE OF TECHNOLOGY, 2025-02-03 to 2025-02-08



Mr. Saikat Kumar Mondal
Asst. Prof, Dept. of ME MIT

- National level Online workshop on " Application and Development with AI & Essential Skills", Asansol Engineering College in association with Brainovision, from 2025-06-23 to 2025-06-27

PLACEMENT HIGHLIGHTS 2025

Name of the Recruiting Company	No. of Job Offers
Polybond India Pvt. Ltd., Pune	6
Rashmi Metaliks, Unit - III, Kharagpur	15
Victora Industries Pvt. Ltd., Faridabad	10
Pinnacle Infotech, Durgapur	3
Victora Industries Pvt. Ltd., Faridabad, (2nd Phase)	4
Rashmi Metaliks, Unit - II, Kharagpur	4
Rashmi Metaliks, Unit - III, Kharagpur (2nd Phase)	2
Rashmi Metaliks, Unit - III, Kharagpur (3rd Phase)	3
Rashmi Metaliks, Unit - II, Kharagpur (2nd Phase)	5
TOTAL	52

Some of our top recruiters:



MULTI-OFFER ACHIEVER

DEBIPRASAD PATRA

ROLL: 15800721004



Placed in
Rashmi Metaliks Unit III
Victora Industries Pvt. Ltd.
Polybond India Pvt. Ltd.

SURAJ GHOSH

ROLL: 15800721003



Placed in
Rashmi Metaliks Unit III
Victora Industries Pvt. Ltd.
Polybond India Pvt. Ltd.

Debasish Goswami

ROLL: 15800722013



Placed in
Pinnacle Infotech Solutions
Victora Industries Pvt. Ltd.

Jyotirmoy Tewari

ROLL: 15800722086



Placed in
Pinnacle Infotech Solutions
Victora Industries Pvt. Ltd.

Sharajit Bewra

ROLL: 15800722074



Placed in
Rashmi Metaliks Unit III
Victora Industries Pvt. Ltd.

Amit Patra

ROLL: 15800722024



Placed in
Rashmi Metaliks Unit III
Polybond India Pvt. Ltd.

Sonu Kumar Mandal

ROLL: 15800722103



Placed in
Polybond India Pvt. Ltd.
Victora Industries Pvt. Ltd.

Kunal Mahata

ROLL: 15800722087



Placed in
Rashmi Metaliks Unit III
Victora Industries Pvt. Ltd.

GATE AND COMPETITIVE EXAM PREPARATION PROGRAM

The Department of Mechanical Engineering, Mallabhum Institute of Technology, successfully organized a **GATE and Competitive Exam Preparation Program** to guide students in excelling at prestigious national-level examinations such as GATE, ESE, and other technical competitive tests.

The initiative featured expert-led sessions, practice tests, doubt-clearing interactions, and strategic planning guidance, all designed to strengthen technical knowledge and problem-solving abilities.

The student response was overwhelmingly positive, with a large number of participants actively engaging in the program. Students expressed appreciation for the interactive sessions, structured approach, and valuable insights that enriched their preparation journey.

This initiative represents a significant step in **empowering students to compete confidently on national platforms**, while also equipping them to pursue higher studies and careers in core technical domains.



EDITORIAL TEAM

Patrons

Ms. Sampa Banerjee,
Chairperson, MIT

Er. Subrata Banerjee,
Executive Director, MIT

Advisors

Dr. Manab Kumar Das
Principal, MIT

Prof (Dr.) A.K. Mukhopadhyay
Advisor, MIT

Mr. Buddhadeb Ghosh
HOD, S&SS, MIT

Chief Editor

Mr. Suprakash Mondal, HOD, Mechanical Engineering

Associate Editor

Mr. Koushik Sarkar, Assistant Professor, Dept. of ME

Student Editors:

Samir Singha, Final Year
Debraj Ghosh, 3rd Year
Ayanjit Dutta, 2nd Year

Design Team:

Mr. Suprakash Mondal & Mr. Animesh Nandi