



M.I.T INSIGHT NEWS LETTER

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Dr. Saquib Shakil
Principal
M.I.T Rambagh, Purnea

Welcome to Millia Institute of Technology (MIT) Rambagh, Purnea, the first institution in the Seemanchal region, established in 2002. We are proud to be one of the oldest engineering colleges in the state of Bihar, with alumni who hold prestigious positions all around the world. I am pleased to inform you that our institution is accredited by NAAC. We aim to provide you with the highest quality education. In fact, the potential for education lies within each student; we are here to encourage you to explore and enjoy the learning process. As the diversity of needs and globalization continue to grow, the demand for competitive skills has increased. The main purpose of MIT is to provide a platform where these needs can be met. We motivate students to develop leadership skills and encourage you to trust in yourselves as you reach for great heights. I want to remind you that each one of you has the power to shape your future. Embrace your uniqueness, pursue your passions, and never shy away from challenges. Remember, growth often comes from stepping outside your comfort zone. Each of you holds incredible potential. Every day is an opportunity to learn, grow, and make a difference—not just in your own lives, but in the lives of those around you.

National Voters Day

Millia Institute of Technology has celebrated National Voters Day on Dt.25/01/2024 at the Virtual Room from 12.00 pm. The National Voters Day is celebrated every year as mark of the foundation day of Election Commission of India, i.e. 25th January 1950. The main purpose of the National Voters Day celebration is to encourage, facilitate and maximize the enrolment of new voters.

Republic Day

On 26 January, M.I.T organized a grand celebration to commemorate Republic Day, marking the historic day when India Constitution came into effect. The event was a vibrant display of patriotism and unity, bringing together students, faculty, and staff in a spirit of national pride.



OLD AGE HOME VISIT

On 30 th Jan, 2025 the Principal, faculty members and students of MIT Rambagh,Purnea organized a heartwarming visit to the Old age home. This visit was part of our colleges social responsibility initiative aimed at spreading love, care and respect for the elderly.



Annual Sports Fest

The Annual Sports Fest at MIT, Purnea was successfully held from 17th February 2025 to 20th February 2025, showcasing the spirit of sportsmanship, teamwork, and athletic excellence among the students. This highly anticipated event, organized with great enthusiasm by the Sports Committee, provided a platform



for students to demonstrate their physical strength, coordination, discipline, and dedication. It served as an opportunity to engage in friendly competition, promote health and wellness, and foster a strong sense of unity, community, and institutional pride.

A wide variety of sports and athletic activities were organized across multiple disciplines, including track and field, team sports, individual events, and fun games, ensuring that every student, regardless of experience or skill level, could participate and enjoy the celebration.



Academic Achievement Award:

The Academic Achievement Award ceremony at Millia Institute of Technology was held on 22nd February 2025 to honor graduating students who successfully completed their respective courses. This event marked a significant milestone in their academic journey, recognizing years of dedication, perseverance, and hard work.





Students were celebrated for their outstanding performance, and the occasion served as a proud moment for both the graduates and their families. Faculty members and dignitaries applauded the students' accomplishments, inspiring future batches to strive for excellence. The ceremony reflected the institute's commitment to academic excellence and the holistic development of its students.

Faculty Message

Civil Engineering Material : Geofoam

Geofoam is a lightweight, cellular plastic material made from Expanded Polystyrene (EPS) or Extruded Polystyrene (XPS). Used in geotechnical engineering, it offers uniform properties and can be engineered to precise specifications, weighing just 1% of soil. It is ideal for applications requiring load reduction, such as lightweight fill over soft soils, road and embankment construction, slope stabilization, retaining wall backfill, bridge abutments, airport runways, railway embankments, green roofs, and thermal insulation for cold regions. Geofoam doesn't break down, ensuring no soil pollution, and can be installed quickly in any weather, reducing installation time.

Mr. Aamir Rahi

HOD, Civil Engineering Department

BIPV Solar Energy

Building-Integrated Photovoltaics (BIPV) is an innovative technology that integrates solar power generation into a building's structure, serving as both functional materials and energy generators. Unlike traditional rooftop solar panels, BIPV systems blend seamlessly with architectural designs. They reduce carbon emissions, decrease dependence on conventional energy, and offer long-term savings through lower energy costs. As engineers continue to enhance efficiency and affordability, BIPV is poised to play a significant role in the future of construction. This eco-friendly, energy-efficient technology is shaping a future where sustainable buildings become the standard in cities and communities.

Md Ajaz Alam

(HOD, Department of Electrical Engineering)

Improvement of Waste energy in Aerospace and Automotive Industry :

This Recent Topic aims to explore the suitability and potential of waste energy recovery technologies across the aerospace, automotive, and industrial sectors. In aerospace, converting waste energy into usable power can improve flight endurance or range without additional fuel, though careful consideration must be given to the added weight of recovery systems. The automotive sector focuses on enhancing vehicle efficiency and achieving strict emission standards using methods such as exhaust heat recovery, kinetic energy recovery systems, and thermal management of engines, vehicles, and batteries. Both conventional and electric vehicles are considered, with emphasis on performance and cost-effectiveness. In industry, waste energy recovery targets energy repurposing from intensive processes like steel and chemical manufacturing, along with optimizing thermal networks and integrating energy usage across systems. Contributions on sustainable technologies such as thermoelectric generators, regenerative braking, and similar innovations are encouraged.

MD. OBAIDUR RAHMAN

HOD, Department of Mechanical Engineering

One of the most significant innovations in heat transfer technology is the development of advanced materials and coatings. These materials are designed to withstand extreme temperatures and corrosive environments, extending the lifespan of heat exchangers and improving their performance.

- Nano-Coatings & Thermal Barrier Coatings (TBCs): Improve heat resistance and efficiency in high-temperature applications like gas turbines and aerospace.

- High-Performance Alloys & Composites: Increase durability and thermal conductivity, optimizing heat exchangers and industrial cooling systems.

- Self-Cleaning & Anti-Fouling Surfaces: Reduce maintenance needs and enhance heat exchanger efficiency by preventing scale buildup. As nanotechnology, AI-driven optimization, and sustainable materials continue to evolve, heat transfer systems will become more efficient, reliable, and environmentally friendly, driving innovation across industries.

Mr. Ravindra Kr. Yadav

Asst. Professor (Department of ME)

Artificial intelligence advances self-driving cars, yet ethical dilemmas challenge their decision-making. Current moral rules often fail to offer clear, satisfying choices, reducing public trust. To address this, the ACWADOE model (WADOE based on Attribute Correlation) integrates human preferences from Moral Machine surveys, calculating probabilities for actions in dilemmas. By analyzing 116 dilemmas for correlation, 84 for information gain, and 40 for testing, ACWADOE assigns factor weights using a pairwise comparison matrix. Compared to NB, ADOE, and WADOE, ACWADOE achieves 92.5% accuracy, better aligning with human ethics. It offers a computational framework for ethical AI decisions in autonomous vehicles and beyond.

Mr. Rajiv Kumar

Asst. Professor (Department of ME)

From Campus to Corporate: Bridging the Management Gap

As management students, we often find ourselves immersed in theories, case studies, and classroom simulations. While this academic foundation is vital, the real challenge begins when we step into the corporate world. The transition from campus to corporate isn't always smooth what looks straightforward in textbooks often becomes complex in boardrooms. Real-world management demands adaptability, emotional intelligence, decision-making under pressure, and the ability to navigate diverse teams. It's not just about knowing management principles, but about applying them with empathy, communication, and strategic foresight. Internships, industry exposure, mentorships, and active participation in college clubs can help bridge this gap. As future managers, it's crucial we align our academic knowledge with practical experiences, preparing ourselves not just to fit into organizations, but to lead them. Let's treat our time on campus as the training ground to build skills that will define our success beyond it.

Miss Somaiya Sabri

Assistant professor (Department of MBA)

Upcoming Events:-

- Quiz Contest
- Academic Achievement Award
- Cultural Activities & Many More



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