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## MONTHLY E-NEWSLETTER

# MACET MYSTICA





# MAULANA AZAD COLLEGE OF ENGINEERING & TECHNOLOGY

## EDITORIAL

In the rapidly evolving landscape of technology, automation and artificial intelligence (AI) stand out as transformative forces driving change across various industries. These technologies are reshaping how businesses operate, enhancing efficiency, reducing costs, and enabling the creation of new products and services. This article explores the profound impact of automation and AI, their applications, benefits, and the challenges they pose.

Automation refers to the use of technology to perform tasks with minimal human intervention. This can range from simple, repetitive tasks to complex processes across industries. Automation technologies include robotics, software scripts, and autonomous systems.

Artificial Intelligence (AI), on the other hand, involves creating systems capable of performing tasks that typically require human intelligence. This includes learning from experience, understanding natural language, recognizing patterns, and making decisions. AI encompasses various subfields such as machine learning, neural networks, natural language processing, and computer vision.

AI and automation open up new possibilities for innovation, creating opportunities for new products, services, and business models. Automation and AI streamline processes, reduce human error, and perform tasks faster, leading to significant productivity gains.

AI systems analyse vast amounts of data to provide insights and support decision-making, enabling businesses to make more informed choices.

Some of the challenges faced by implementing Automation and AI include job displacement for workers performing routine and repetitive jobs. Implementing AI and automation systems can be complex and requires seamless integration with existing processes and technologies. The increased use of AI and automation raises concerns about data security and privacy. Protecting sensitive information is paramount.

Automation and artificial intelligence are revolutionizing industries, driving efficiency, and enabling innovation. While the benefits are substantial, it is essential to address the challenges they pose to ensure a balanced and inclusive technological advancement. By embracing these technologies responsibly, businesses and society can harness their full potential, leading to a future where humans and intelligent machines work together to achieve unprecedented levels of productivity and progress.

#### EDITOR

#### SAIMA FARZEEN

Assistant Professor Mechanical Department

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## **News Updates**

## **Placement of students**

Seven students from MACET 2020 batch has been selected in HIGHLY ELECTRICAL APPLIANCES INDIA PVT.LTD. (Ahmedabad) in an online campus placement drive on 4 May, 2024. Name of the students are:

- MD. ARSHAD
- MD HUSSAIN KAMIL
- MD TAUSIF AKBAR
- ATA FAREED
- MD. MOHIBUDDIN
- MD.EQBQL
- MD.UMAR

Three students from MACET 2020 batch has been selected in MINTWAYS TECHNOLOGIES (Bengaluru) in an online campus placement drive on 5 May, 2024. Name of the students are:

- MOHAMMAD TABREZ ALAM
- MD. DANISH AKHTER
- SHADAB HUSSAIN
- ADEEBA IMAM (WAITING LIST)\*

Seven students of 2020 batch from MACET has been selected in WAYSPIRE ED TECH Pvt. Ltd. on 22 May, 2024. Name of students are:

- NISARUL HAQUE (CIVIL)
- MD. ZEESHANULLAH FAIZ (CSE)
- NAVIN KUMAR (ECE)
- MD. AQUIB RAZA (CSE)
- RAGHIB ZAMAN (EEE)
- ANKIT RAJ (CVIL)
- SAMAR FATIMA (CSE)



- Two students of 2023 batch from MACET has been selected in Trinayani Medical System on 12 March, 2024. Name of the students are:
  - MD AQUIB RAZA
  - NAVIN KUMAR
  - REHAN SHAIKH
  - MD SAIF ALI
  - RIFAT PARWEEN
  - MD MOBASHSHIR HANNAN

- ARIF ALAM
- MD SARWAR ALAM
- MUSTAFIZ ALI
- ASIF REZA AZM
- AQUIB SHAKIL

## **Placement of students**

Heartiest Congratulation for getting placed in Wayspire Ed Tech Pvt.Ltd.







Md. Zeeshanullah Faiz CSE-2020 (B)



Navin Kumar ECE-2020 (B)



Md. Aquib Raza CSE-2020(B)



Ankit Raj Civil-2020 (B)



EEE-2020 (B)

Samar Fatma CSE- 2020 (B)

- Mr. Zaki Imam of 2020 batch from MACET has been selected for the position of "GET" in MARQUE IMPEX Pvt.Ltd. at Moradabad in UP in an online campus placement drive on 11 June, 2024.
- Fourteen students of 2020 batch from MACET has been selected in DHOOT TRANSMISSION Pvt. Ltd in an online campus placement drive on 12 June, 2024.
  - ZAKI IMAM (MECH)
  - MD. JAMIL AKHTAR (MECH)
  - MOHAMMAD SHAHBAN (MECH)
  - MD. RASHID IMAM (MECH)
  - ARIF ALAM (MECH)
  - MD SAIF ALAM (EEE)
  - ASIF REZA (ECE)

- NEHAL FAZAL (MECH)
- MD AZHAR (MECH)
- MD SARWAR ALAM (ECE)
- ABU OBAID KHAN (EEE)
- MD SAIF IRFAN (MECH)
- NAVIN KUMAR (ECE)
- NAU BAHA R (ECE)

## Placement of students

Eleven students of 2020 batch from MACET has been selected in SKILL INTERN PVT. LTD. from MACET on 28 May, 2024. Name of the students are:

- MD AQUIB RAZA
- NAVIN KUMAR
- REHAN SHAIKH
- MD SAIF ALI
- RIFAT PARWEEN
- MD. MOBASHSHIR
- ARIF ALAM
- MD SARWAR ALAM
- MUSTAFIZ ALI
- ASIF REZA AZMI
- AQUIB SHAKIL
- MD SAIF ALAM (EEE)
- ASIF REZA (ECE)

## Articles

## The Transformative Impact of IoT on Modern Life

Zaffar Abbas, CSE Department

The Internet of Things (IoT) has emerged as a groundbreaking technology, significantly transforming the way we live, work, and interact with our surroundings. By connecting everyday devices to the internet, IoT has brought unparalleled convenience, efficiency, and intelligence to various facets of daily life, making our lives remarkably easier.



One of the most noticeable impacts of IoT is seen in smart homes. Home automation systems allow homeowners to control lighting, heating, security cameras, and even kitchen appliances remotely through their smartphones or voice commands. Smart thermostats learn household patterns and adjust temperatures for optimal comfort and energy savings. Security systems with connected cameras and sensors provide real-time monitoring and alerts, enhancing home security and peace of mind. These advancements not only simplify household management but also contribute to significant energy savings and increased security.

Healthcare is another domain where IoT has made a substantial difference. Wearable devices such as fitness trackers and smart watches continuously monitor vital signs, track physical activity, and remind users to take medications. This real-time health monitoring facilitates early detection of potential health issues, allowing for timely medical intervention and improved overall health outcomes. For chronic disease management, IoT-enabled devices can transmit patient data to healthcare providers, enabling remote monitoring and personalized care plans.

In the workplace, IoT has streamlined operations and boosted productivity. Smart office systems manage lighting, heating, and equipment usage efficiently, adapting to the presence of employees and reducing energy waste. IoT devices provide real-time data and analytics, aiding in better decision-making and resource management. For industrial applications, IoT sensors monitor machinery performance, predict maintenance needs, and minimize downtime, leading to enhanced operational efficiency and cost savings.

Transportation has also been revolutionized by IoT. Connected vehicles offer real-time traffic updates, predictive maintenance alerts, and enhanced safety features, improving the overall driving experience. Smart traffic management systems reduce congestion and improve urban mobility, making daily commutes more efficient.

In essence, IoT has seamlessly integrated technology into our daily lives, transforming mundane tasks into automated processes and providing real-time insights that enhance decision-making. By improving convenience, efficiency, and security across various domains, IoT continues to reshape our world, promising even greater advancements in the future. The ability of IoT to connect and automate devices heralds a new era of smart living, where technology works harmoniously to enhance our quality of life.

## **FDPs / Research Papers**

#### **Civil Engineering Department**

#### Md. Ehraz Akhtar

• Successfully completed 5 days Online Teachers Training Program on "Teaching Learning Styles and Methodologies" conducted from 27th May to 31st May 2024 by Association of Muslim Professionals in collaboration with Maulana Azad University, Jodhpur.

#### PUBLICATION IN INTERNATIONAL JOURNAL

#### Waseem Akhtar

- "Implementation of Earthquake Resistant Norms in Engineered Building Construction", in International Journal of Progressive Research in Engineering Management and Science (IJPREMS), Volume 04, Issue 05, May 2024.
- "A Review on Analysis of the Coupling Beam and Shear Wall by Using Staad Pro V8i Software", in International Journal of Research Publication and Reviews (IJRPR), Volume 05, Issue 05, May 2024.

#### **Computer Science & Engineering Department**

#### **Faiz Ahmad**

 Successfully completed 7 days Online Teachers Training Program on "Practical Aspects of ICT Tools & Online Teaching in Current Scenario" conducted from 29<sup>th</sup> May to 04<sup>th</sup> June 2024 by Research Foundation of India & RFI-CARE.

## **"THE IMPACT OF ARTIFICIAL INTELLIGENCE ON MODERN SCIENTIFIC DISCOVERY"** Sana Azad, CSE, 2022 Batch

In today's era of advanced technology, artificial intelligence (AI) plays a pivotal role in revolutionizing scientific discovery. Its impact spans across various fields, offering both unprecedented advantages and posing significant challenges that shape its integration into research. In fields such as medicine and genetics, AI algorithms are adept at processing massive amounts of information to uncover intricate patterns and correlations. This capability not only accelerates research timelines but also reduces costs associated with traditional methods. Furthermore, AI-powered simulations are revolutionizing our understanding of complex systems. For example, in climate science, AI models can simulate various climate scenarios based on historical data, providing more precise predictions of future climate patterns. Similarly, in astrophysics, AI algorithms help simulate how galaxies form and evolve, offering profound insights into the universe's mysteries.

Despite these advancements, integrating AI into scientific research presents challenges. A major concern is the interpretability of AI-generated results. While AI can detect correlations, understanding the underlying reasons often requires human expertise to ensure accurate interpretation and decision-making. Additionally, bias in AI algorithms remains a significant issue. If AI systems are trained on biased data, they may inadvertently perpetuate or amplify existing biases, leading to unfair outcomes, especially in critical areas like healthcare and social sciences.

In conclusion, while AI offers tremendous potential to advance scientific discovery through faster data analysis and enhanced simulations, addressing interpretability challenges and mitigating bias are crucial for maximizing its benefits responsibly. By doing so, we can ensure that AI continues to drive groundbreaking discoveries while upholding ethical standards and reliability in scientific research.



## Maulana Azad College of Engineering & Technology

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