Speech for Inaugural Session
Date: 6th April 2026 | Time: 2:00 PM

Respected dignitaries on the dais, esteemed organizers, distinguished faculty members, dear participants, and my young friends,
Good afternoon to all.

It is indeed a great privilege and honor for me to be present here today as the ***Guest of Honour*** in this inaugural session. I feel deeply humbled to be part of this meaningful academic initiative and to share a few thoughts with such an enlightened gathering.

At the outset, I would like to sincerely appreciate the commendable efforts of the **AMIEE Association** and the **Department of Information Technology, UIET, Panjab University, Chandigarh**, for organizing such a timely, relevant, and impactful program. In today's rapidly evolving technological landscape, such initiatives are not just academic exercises—they are essential platforms for innovation, collaboration, and societal transformation.

I am also delighted to acknowledge the esteemed association of **Prof. (Dr.) Gurdaman Lal Sharma** as the Chief Patron, whose guidance and vision undoubtedly add immense value and credibility to this program.

Role of Technology and Innovation
We are living in an era where technology is no longer just a tool—it is a driving force shaping our future. Artificial Intelligence, Machine Learning, and sustainable engineering are redefining how we think, design, and implement solutions to global challenges.

As engineers and academicians, our responsibility goes beyond innovation—we must ensure that our innovations are aligned with sustainability, inclusivity, and environmental consciousness.

Case Study: Air-O-Bike – A Step Towards Sustainable Mobility
Allow me to briefly share one of my research and development initiatives—**Air-O-Bike**, which reflects the integration of innovation with sustainability.

The concept of Air-O-Bike was developed with the aim of creating an eco-friendly, energy-efficient transportation system. Unlike conventional fuel-based vehicles, this system is designed to minimize carbon emissions while optimizing energy utilization.

Key Features:

- Reduced dependence on fossil fuels
- Energy-efficient propulsion mechanism
- Environmentally sustainable design
- Cost-effective for common users

Role of AI in Enhancing Air-O-Bike
Today, with the advancement of Artificial Intelligence, such innovations can be further refined and scaled.

AI tools can significantly enhance the performance and impact of systems like Air-O-Bike in the following ways:

1. **Smart Energy Optimization**
   AI algorithms can analyze riding patterns and optimize energy consumption in real-time.
2. **Predictive Maintenance**
   Sensors integrated with AI can predict component failures, reducing downtime and increasing reliability.

3. **Route Intelligence**
   AI can suggest optimal routes based on terrain, traffic, and energy efficiency, improving performance.
4. **Environmental Impact Monitoring**
   AI systems can continuously track emissions saved and provide data-driven insights for sustainability metrics.
5. **Adaptive Control Systems**
   AI-enabled control can dynamically adjust speed, torque, and performance based on user behavior and environmental conditions.

Thus, the integration of AI with sustainable innovations like Air-O-Bike can create a powerful synergy for a greener future.

Global Concern: Glacier Depletion and Rising Sea Levels
While we celebrate technological progress, we must also confront the pressing environmental challenges of our time.

One of the most alarming issues today is **glacier depletion**. Due to global warming, glaciers across the world are melting at an unprecedented rate. This has a direct and dangerous consequence—**rising sea levels**.

The impact is already visible:

- Coastal cities facing frequent flooding
- Loss of habitat and displacement of populations
- Increased occurrence of natural disasters
- Threat to biodiversity and ecosystems

Millions of people living in coastal regions are at risk of becoming climate refugees. This is not a distant future—it is a reality unfolding before us.

Our Responsibility as Technologists

This brings us to a critical question**: *What is our role?***

As engineers, researchers, and innovators, we must:

- Develop sustainable technologies
- Promote clean energy solutions
- Use AI responsibly for environmental monitoring
- Design systems that reduce ecological footprints
- Create awareness and influence policy through research

Technology must become a solution—not a contributor—to **environmental degradation.**

Message to Young Minds

To all the participants and young scholars present here, I would like to say: "***You are not just learners—you are future problem solvers***".

Think beyond marks and degrees. Focus on:

- Innovation with purpose
- Research with impact
- Technology with responsibility

The world today needs not just engineers, but *visionaries* who can balance development with sustainability.

In the end, I once again express my gratitude to the organizers for inviting me to be part of this prestigious event.

Let us work together to harness the power of technology and artificial intelligence for the betterment of humanity and the preservation of our planet.

I wish the program great success and hope that it inspires meaningful discussions, innovative ideas, and impactful outcomes.

Thank you very much.

Jai Hind.