NEW HORIZON COLLEGE OF ENGINEERING

DEPARTMENT OF CSE - DATA SCIENCE

Event: "Innovation in Intelligence Computing Technologies, Communication, and Security for Sustainable Development"

Venue: Room Auditorium **Time - 09:00 to 1:00 PM**

The 7th National Conference on *"Innovations in Intelligent Computing Technologies, Communication and Security for Sustainable Development"* was successfully organized on 23rd April 2025 by the Computing Departments of New

Horizon College of Engineering — namely, CSE, ISE, AIML, MCA, and DS. This conference served as a dynamic platform for students, academicians, researchers, and industry professionals to share their contributions in cutting-edge technological fields, seek approvals for their research papers, and explore opportunities for innovation and patent filing. The presence of eminent dignitaries, including Chief Patrons Dr. Mohan Manghnani (Chairman) and Mr. Dhermesh Manghnani (President), along with Patron Dr. Manjunatha (Principal), significantly contributed to the stature and success of the event. The Research Advisory Committee included Dr. V. Revathi, Professor and Dean of R&D, and Mr. Mahruf Ali P A, CEO of Tensorbot Innovations Pvt. Ltd., Kerala, who offered valuable guidance and insights.

The central theme of the conference focused on leveraging advancements in intelligent computing technologies, cybersecurity, and modern communication systems to promote sustainable development.

The discussions emphasized how innovations in Artificial Intelligence, Blockchain, Green Computing, Internet of Things (IoT), and Quantum Computing can address pressing global challenges. Speakers and thought leaders underscored the importance of developing solutions that are not only technologically advanced but also energy-efficient, environmentally conscious, and socially beneficial.

The conference championed responsible innovation as the foundation for progress-encouraging participants to build systems that optimize resources, enhance security, and improve quality of life for diverse populations.

A key highlight of the conference was the focus on social impact-driven ideation. The conference chairs and invited speakers strongly advocated that student projects and innovations should aim to solve real-world problems rather than exist solely as academic exercises.

They urged participants to think beyond technical originality and consider how their ideas could foster sustainability, address healthcare and environmental challenges, and contribute to the common good. This focus nurtures not just skilled technologists but also visionary leaders who are mindful of their role in shaping a better society.

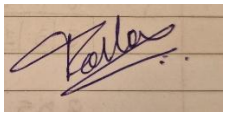
Following the inaugural address and keynote sessions, a group photo session was conducted, capturing the collective enthusiasm and collaborative spirit of the participants. This symbolic moment celebrated the unity of academic pursuit and innovation across departments and disciplines.

Participants were then classified based on the domain and nature of their research contributions. Authors were directed to specific classrooms where domain-focused paper presentation sessions were conducted. These sessions offered a platform for students to present their work, interact with expert reviewers, and receive feedback on refining their research or transforming their ideas into potential patents. The structure of these sessions ensured in-depth discussions, individualized guidance, and domain-specific mentorship, enhancing the academic value of the event.

Towards the conclusion of the conference, a technical presentation was delivered that focused on the critical role of accuracy in improving process efficiency. The session highlighted how enhanced precision in computational systems, machine learning models, and data-driven applications contributes to better reliability, resource optimization, and decision-making. Real-world case studies from sectors

such as healthcare, cybersecurity, and manufacturing were presented to illustrate how even marginal improvements in model accuracy can lead to reduced wastage, improved service delivery, and lower operational costs. This session reinforced the importance of rigorous model validation and precision Engineering in building effective, sustainable technological solutions.

In conclusion, the 7th National Conference at New Horizon College of Engineering was a resounding success. It empowered students and early-career researchers with an opportunity to present their innovations, engage with academic and industry experts, and understand the critical intersections of accuracy, efficiency, and social impact. The conference fostered a culture of meaningful research and echoed its mission of promoting intelligent, sustainable development through innovation in computing technologies.



Faculty Coordinator **HOD**

Prof. PALLAVI NAYAK **Dr. BASAVARAJU SWATHI**