NEWS Letter

Jan
2026

JEPPIAAR
INSTITUTE OF TECHNOLOGY
JIT
SRIPERUMBUDUR
ESTD. 2011

(An Autonomous Institution)

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DEPARTMENT

OF IT

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DEPARTMENT NEWS

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STACKSPHERE CLUB

Web Sprint was a frontend web development competition conducted to enhance the practical web design skills of students. The event focused on designing a college event webpage using HTML and CSS without involving any backend technologies. The objective of the competition was to encourage participants to apply their theoretical knowledge to real-time web design scenarios. Participants were given a specific time limit to conceptualize and develop an interactive and visually appealing webpage. Emphasis was placed on responsiveness, creativity, and proper use of frontend technologies. The event provided a platform for students to explore modern design practices, improve their coding efficiency, and demonstrate their problem-solving abilities. Overall, Web Sprint served as an engaging and competitive learning experience that helped students strengthen their frontend development skills and gain confidence in building real-world web interfaces.
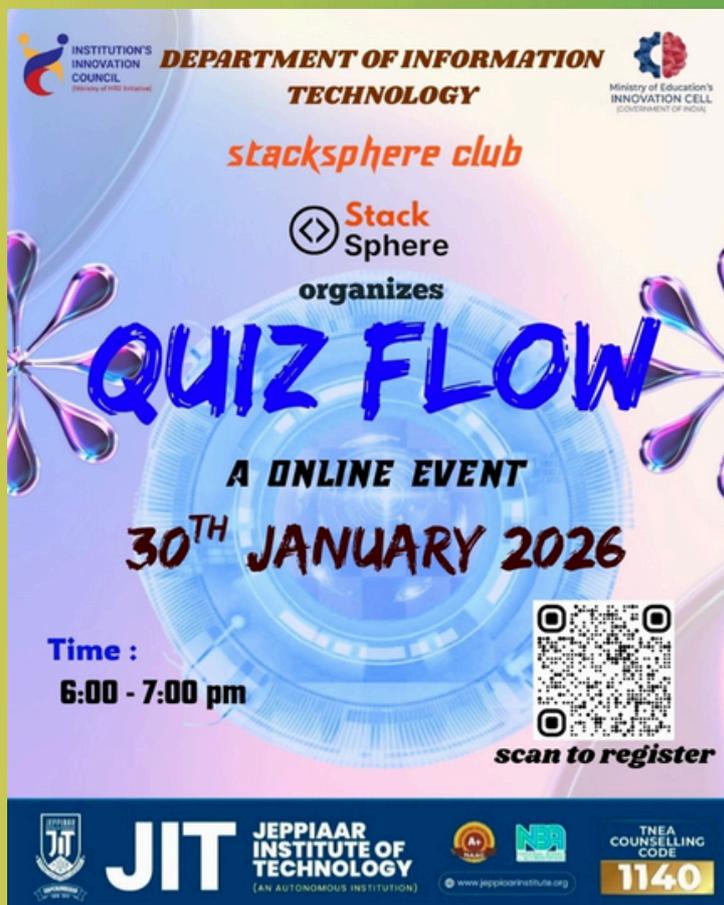
Quiz Flow was an online quiz competition organized by the Stacksphere Club, Department of Information Technology. The event was conducted to enhance students' knowledge, logical thinking, and problem-solving abilities across various technical and general aptitude domains. The competition consisted of multiple-choice questions designed to test participants' understanding, accuracy, and speed. As the event was conducted in an online mode, students were able to participate remotely, ensuring wider participation and ease of access.

Quiz Flow provided an engaging platform for students to challenge themselves, improve their analytical skills, and compete in a dynamic and interactive environment. The event successfully encouraged active participation and fostered a spirit of healthy competition among students.

The Research & Development Cell, in association with the Department of Computer Science & Business Systems, organized a webinar titled "Effective Research Communication and Academic Publishing" under the Institutions Innovation Council (IIC) 8.0 initiative. The webinar was conducted in virtual mode with the objective of enhancing participants' understanding of research communication practices and the academic publishing process.

The session was delivered by Ms. B. Sangeetha, Assistant Professor and HOD (AI & IT), Kings College of Engineering, Pudukkottai. The speaker provided valuable insights into structuring research papers, communicating research ideas effectively, selecting appropriate journals, and understanding ethical considerations in academic publishing.

The webinar was interactive and informative, benefiting students and faculty members by improving their awareness of scholarly writing standards and publication strategies. Overall, the session successfully contributed to strengthening the research culture and academic excellence among participants.

MoU SIGNING

The Department of Information Technology, Jeppiaar Institute of Technology, has taken another significant step toward strengthening industry–academia collaboration by signing a Memorandum of Understanding (MoU) with SparkTech Digital Marketing Pvt. Ltd. on 2nd February 2026.

The MoU aims to foster a strong partnership between the institution and the industry, focusing on enhancing students' technical knowledge, professional skills, and overall employability.

Through this collaboration, both organizations will work together in areas such as:

· Industry-oriented training programs

· Skill development initiatives

· Workshops and seminars conducted by industry experts

· Internship and placement opportunities

· Knowledge sharing and collaborative projects

This collaboration reflects the Department of Information Technology's commitment to providing students with practical exposure and aligning academic learning with current industry requirements. The partnership with SparkTech Digital Marketing Pvt. Ltd. is expected to create valuable learning and career opportunities for students and faculty members alike. The Department of Information Technology, Jeppiaar Institute of Technology, looks forward to a productive and mutually beneficial association with SparkTech Digital Marketing Pvt. Ltd., contributing to innovation, professional growth, and academic excellence. Jeppiaar Institute of Technology anticipates a long-term and impactful collaboration with SparkTech Digital Marketing Pvt. Ltd., paving the way for student success and sustained professional development.

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Person Name : CDC Training

STUDENT ARTICLE

NANTHAKRISHNA. V
2nd YEAR IT

Artificial Intelligence: Shaping the Future of Technology and Innovation

Imagine a world where your smartphone predicts what you need before you ask, your car helps you avoid accidents, and a doctor receives early warnings about a patient's condition even before symptoms appear. This is not science fiction—it is the growing reality shaped by Artificial Intelligence (AI). AI refers to the ability of machines to imitate human intelligence by learning from data, recognizing patterns, making decisions, and improving over time. Quietly yet powerfully, AI is transforming the way we live, work, and interact with technology. At its core, Artificial Intelligence functions through three key processes: data collection, learning, and decision-making. Large volumes of data are gathered from digital interactions, sensors, and online activities. Machine learning algorithms analyze this data, identify patterns, and learn from experience. Based on this learning, AI systems make predictions or take actions—recommending content, detecting fraud, recognizing faces, or translating languages. The more data AI processes, the smarter and more accurate it becomes. One of the most visible applications of AI is in everyday digital life. Virtual assistants, recommendation systems on streaming platforms, spam filters, and navigation apps all rely on AI to deliver personalized experiences. These systems save time, reduce effort, and make technology more intuitive. What once required manual effort is now handled instantly by intelligent systems working behind the scenes. AI has also made a profound impact in healthcare. Intelligent algorithms assist doctors in analyzing medical images, predicting diseases, and planning treatments. Wearable devices powered by AI monitor vital signs and alert users to potential health risks. In hospitals, AI helps manage patient data, improve diagnosis accuracy, and support faster decision-making, ultimately enhancing the quality of care. In education, Artificial Intelligence is reshaping how students learn and teachers teach. Adaptive learning platforms adjust content based on individual performance, helping students learn at their own pace. Automated evaluation systems provide quick feedback, while virtual tutors assist learners beyond classroom hours. For students in engineering and technology, AI encourages innovation, critical thinking, and real-world problem solving. Industries and businesses are also leveraging AI to improve productivity and efficiency. From automated manufacturing and quality control to intelligent customer support and predictive maintenance, AI-driven solutions reduce costs and increase accuracy. In transportation, AI supports traffic management systems and autonomous vehicles, making travel safer and more efficient. Despite its advantages, Artificial Intelligence comes with challenges. Ethical concerns, data privacy, bias in algorithms, and the impact on employment are important issues that must be addressed. Responsible development and human oversight are essential to ensure that AI benefits society in a fair and transparent manner. Artificial Intelligence is not merely a technological advancement—it is a powerful tool shaping the future of humanity. As AI continues to evolve, it will open new possibilities, inspire innovation, and redefine the boundaries of what machines and humans can achieve together

STUDENT ARTICLE

MUKESH. A
2nd YEAR IT

Communication: Redefining Security in the Digital Age

Imagine sending a message so secure that any attempt to intercept it is instantly detected. No hidden tapping, no silent data theft—just pure, unbreakable security. This is the promise of Quantum Communication, a revolutionary field that uses the principles of quantum physics to transmit information in ways never possible with classical communication systems. Once confined to theoretical physics, quantum communication is now steadily moving toward real-world implementation. At the heart of quantum communication lies the concept of quantum bits, or qubits. Unlike classical bits that exist as either 0 or 1, qubits can exist in multiple states at the same time through a phenomenon known as superposition. Another key principle is entanglement, where two particles become so closely linked that a change in one instantly affects the other, regardless of the distance between them. These unique properties form the foundation of ultra-secure data transmission. Quantum communication primarily operates through Quantum Key Distribution (QKD). In this process, encryption keys are shared using quantum particles such as photons. If an unauthorized person attempts to intercept the communication, the quantum state of the particles changes immediately, alerting the sender and receiver to the presence of an eavesdropper. This makes quantum communication fundamentally secure, unlike traditional encryption methods that can be broken with sufficient computational power. The applications of quantum communication are far-reaching. In the field of cybersecurity, it offers unprecedented protection for sensitive data such as financial transactions, military communications, and government records. Banks and data centers can use quantum networks to prevent cyberattacks and data breaches. In healthcare, secure transmission of patient records ensures privacy and compliance with strict data protection standards. Quantum communication is also shaping the future of global networking. Researchers are developing quantum internet technologies that enable secure communication between quantum computers. Satellite-based quantum communication systems are being tested to transmit encrypted data across long distances, overcoming the limitations of optical fibers. These advancements bring the vision of a globally secure communication network closer to reality. Despite its immense potential, quantum communication faces challenges. High implementation costs, technical complexity, and sensitivity to environmental disturbances are significant hurdles. Maintaining quantum states over long distances requires precise control and advanced infrastructure. However, ongoing research and technological progress continue to address these challenges. Quantum communication is more than just an upgrade to existing systems—it represents a paradigm shift in how information is protected and transmitted. As the digital world faces growing security threats, quantum communication stands as a powerful solution, paving the way for a future where secure communication is not just desired, but guaranteed.