



June
2026



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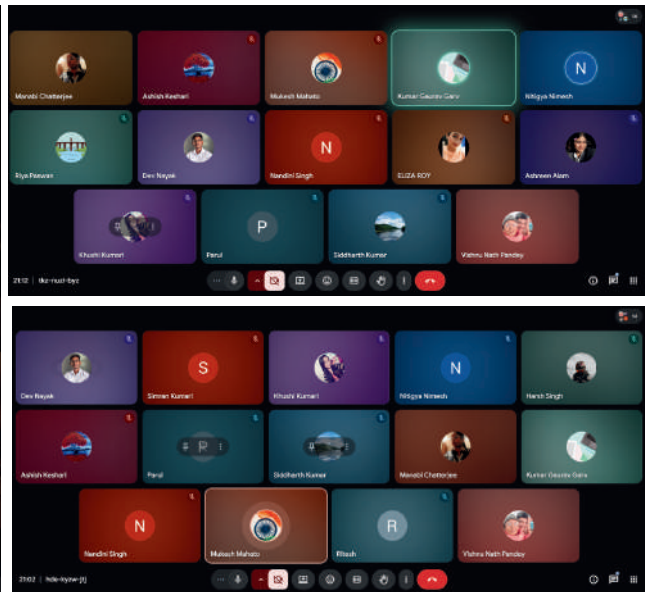
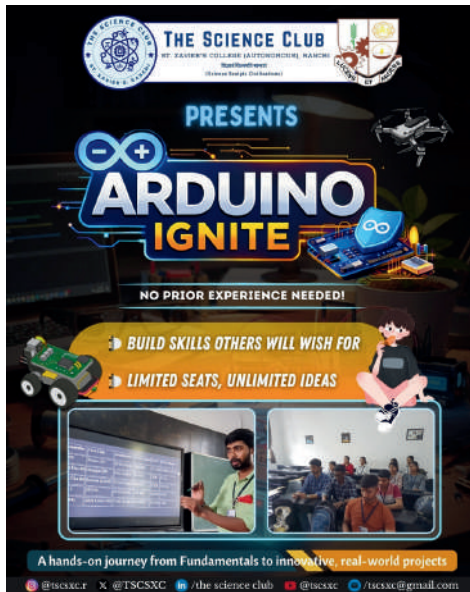
THE SCIENCE CLUB

St. Xavier's College, Ranchi



PRESIDENT : VISHNU NATH PANDEY

SECRETARY: HARSH SINGH



📅 DATE: 10th - 12th June, 2026

📍 PLACE: Online

The Science Club, St. Xavier's College, Ranchi, successfully conducted the third session of its Arduino Ignite series, providing members with an opportunity to deepen their understanding of embedded systems, robotics, and Internet of Things (IoT) technologies. The session was designed to move beyond the fundamentals of Arduino programming and introduce participants to advanced concepts that are essential for developing real-world automation and robotics projects.

Members explored advanced Arduino programming techniques, sensor interfacing, efficient code structuring, and the integration of microcontrollers with ESP-based development boards. Special emphasis was placed on ESP programming, enabling participants to understand Wi-Fi communication, wireless control systems, and the fundamentals of IoT applications. Through interactive demonstrations and guided discussions, members gained practical insights into designing smart and connected devices.

The hands-on segment of the session encouraged participants to apply their knowledge by working on several robotics projects. Members successfully developed and tested prototypes such as an RC car, a rover, and a robotic arm. These projects involved motor control, wireless communication, hardware interfacing, and real-time programming, allowing participants to experience the complete process of designing, assembling, programming, and troubleshooting embedded systems.



The collaborative environment fostered teamwork, problem-solving, and innovation, with experienced members guiding beginners throughout the development process. Participants also discussed project optimization, hardware selection, and future enhancements that could be incorporated into their prototypes.

The session significantly enhanced the technical skills of the members while promoting creativity and practical learning. By combining theoretical concepts with hands-on implementation, Arduino Ignite – Session 3 successfully strengthened participants' understanding of modern embedded systems and IoT technologies.

The initiative continues to serve as an excellent platform for aspiring innovators to explore robotics, automation, and smart technologies, encouraging them to transform their ideas into functional engineering solutions.

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I affirm that all the information I have provided is accurate and truthful. I have not supplied any incorrect detail intentionally. Both my club and I are prepared to accept any disciplinary measures if any discrepancy and inaccuracy are discovered during the verification process.

Harsh Singh
Secretary
The Science Club
St. Xavier's College, Ranchi

TSCSXC/2025-2026