

" Circuit Crushers: Hands-on Arduino Inventing Lab "

- A School Outreach Initiative

at Kalyan Nagar Vidyapith for Girls (H.S.) , Khardah

**organized by Institution's Innovation Council, Innovation Cell in collaboration with IQAC,
Victoria Institution (College)**

27th August, 2026

11:00 a.m. – 4:30 p.m.

This one-day school outreach programme aimed to promote local innovation ecosystems and outreach and engaged students in hands-on learning by designing smart devices using Arduino.

The technical session began with a brief overview of the foundational electronics which included understanding breadboards, LEDs, resistors, sensor interfacing and then moved to the basics of Arduino Uno, its components, and the Arduino IDE (Integrated Development Environment). Participants successfully built four core projects: a) LED Blinking: Learning basic programming logic. b) Motion Sensor: Detecting movement for security automation. c) Smart Weather Station: Monitoring real-time environmental data. d) Smart Stick: Using ultrasonic sensors to assist the visually impaired.

The school students heavily enjoyed the interactive, hands-on training, showing immense enthusiasm while building the projects.

Resource persons were Dr. Gayatri Pal, Dr. Subhendu Chandra and Dr. Shinjinee Das Gupta from the Department of Physics, VIC. Student Mentors were Shweta Mukherjee (7th Sem, Dept. of Physics, Student's coordinator, Innovation Cell) and Barnali Das (7th Sem, Dept. of Physics)



Glimpses of the Event