

**"Eco-Tech Innovators" - A School Outreach Initiative  
at Christ Church Girl's High School, Kolkata**

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

**4<sup>th</sup> 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 STEM learning by building Arduino-assisted projects.

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). Students have performed three hands-on projects under the supervision of the mentors: a) building a Smart Weather Station to monitor temperature and humidity, b) measuring Air quality and c) developing Automated Plant Watering System using soil moisture sensors to prevent over-watering.

Resource persons were Dr. Gayatri Pal, Dr. Subhendu Chandra and Dr. Shinjinee Das Gupta from the Department of Physics, VIC.

Participants coded sensors, wired circuits, and analyzed real-time environmental data to solve in an innovative way local ecological challenges. Students showed active participation throughout the hands-on workshops.



*Glimpses of the Event*