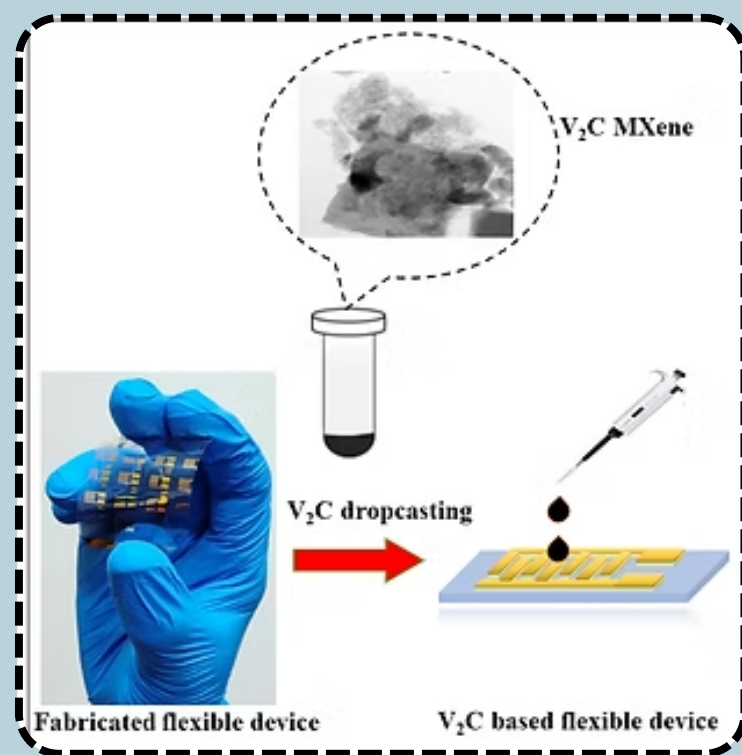


# Welcome to the SHE Lab

**SHE** (*Sensors for Health-care and Environmental monitoring*) lab - pioneers smart sensing technologies to safeguard human health and protect our environment in real time.



“It doesn't matter how beautiful your theory is ... If it doesn't agree with experiment, it's wrong.”  
-**Richard Feynmann**

## CONTACT US



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Indian Institute of Information  
Technology, Kalyani

## Our Goal

We aim to design and fabricate advanced functional nanomaterial (0D/1D/2D)-based electrochemical biosensors and gas sensors with enhanced sensitivity and selectivity for health-care diagnostics and environmental monitoring applications. By extending our research to energy storage and energy-conversion devices, we strive to enable self-powered and sustainable sensing platforms. Leveraging AI-ML, our goal is to transform sensor data into smart, predictive, and real-time decision-making tools for improved human health and environmental safety

### Our Research Group

Dr. Rinky Sha (Assistant Professor)

#### *Post-Doctoral Researcher*

Dr. Subrata Mandal

#### *PhD Students*

Sourav Karmakar

Mustak Ahmed Laskar

Pritha Chowdhury

# *Lab Facilities*



**Centrifuge**



**CHI 660F Electrochemical Workstation**



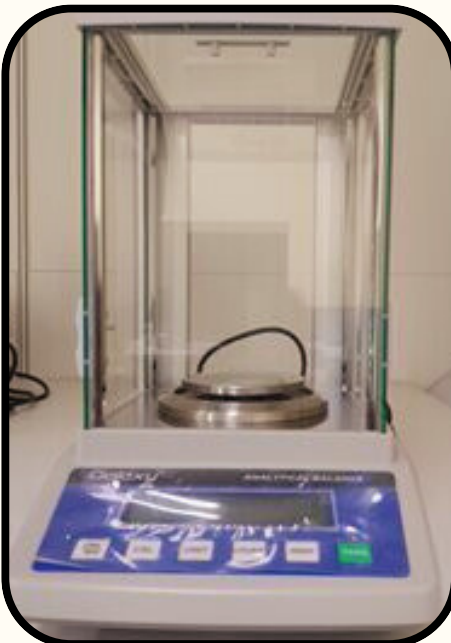
**Laboratory  
Refrigerator (2-8°C)**



**Laboratory  
Refrigerator (-20°C)**



**Hot Air Oven**



**Weighing Machine**



**Hot Plate Stirrer**



**Bath Sonicator**

**Funding Agency: ICMR**