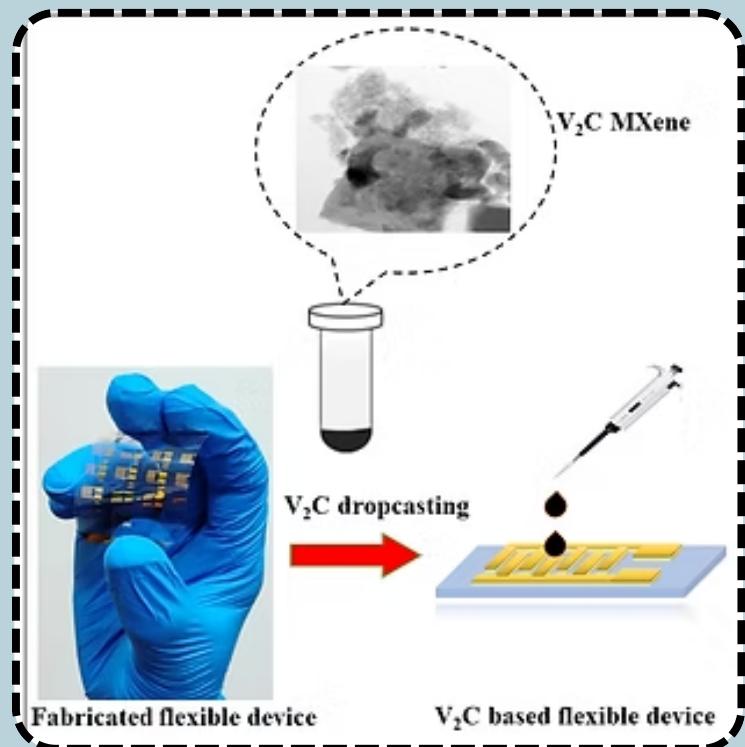


Welcome to the SHE Lab

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

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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

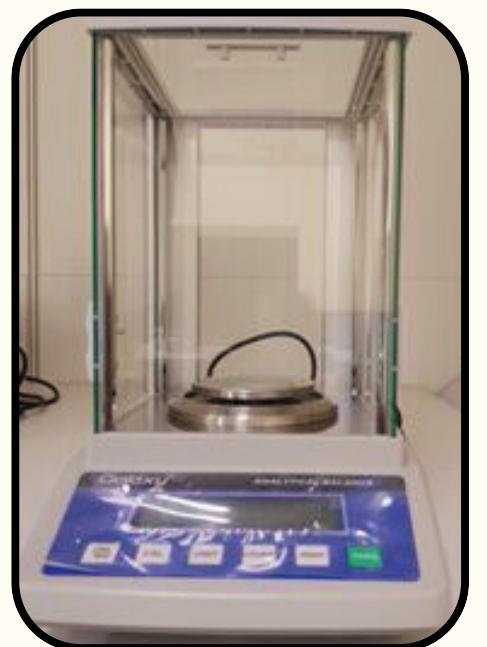
Lab Facilities



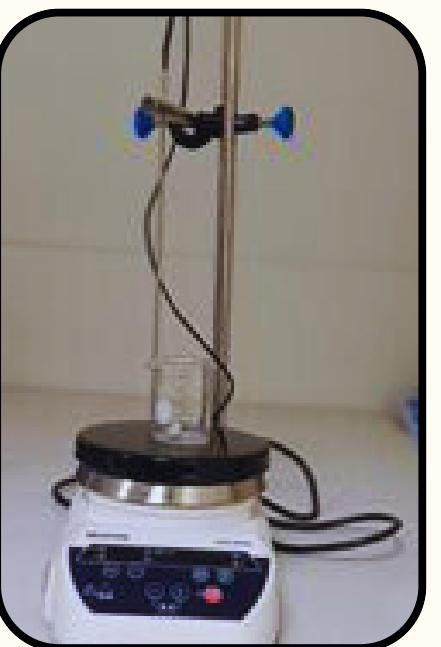
Centrifuge



CHI 660F Electrochemical Workstation



Weighing Machine



Hot Plate Stirrer



Laboratory
Refrigerator (-20°C)



Hot Air Oven



Laboratory
Refrigerator (2-8°C)



Bath Sonicator

Funding Agency: ICMR