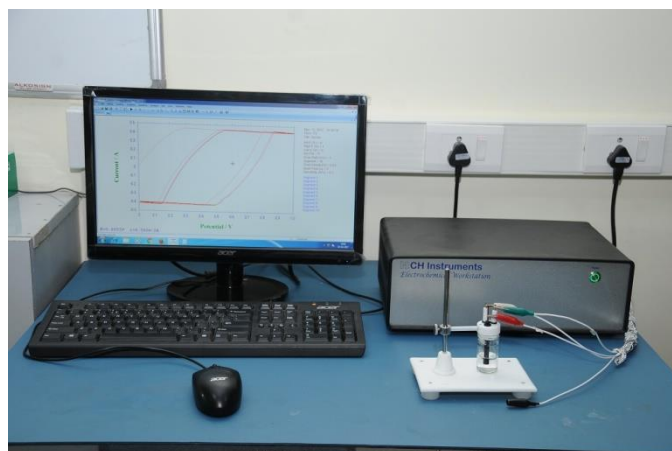


ELECTROCHEMICAL WORK STATION

Photo of Instrument:



Instrument Name	ELECTROCHEMICAL WORK STATION
Instrument Model & Serial No.	
Instrument Make	CH Instruments
Category of Instrument	Characterisation and Testing Facility
Description of Instrument	Electrochemical workstations are specialized devices used in electrochemical research and analysis. They are essential tools for studying and characterizing electrochemical processes, including corrosion, battery technology, sensor development, and material science.
Instrument Technical Description and Major Specifications (This Specifications Limited to Major 5)	<ul style="list-style-type: none"> • 2- or 3- or 4-electrode configuration • Floating (isolated from earth) or earth ground • Maximum potential: ± 10 V • Maximum current: ± 250 mA continuous, ± 350 mA peak • Compliance Voltage: ± 13 V • Potentiostat rise time: $< 1 \mu\text{s}$, $0.8 \mu\text{s}$ typical • Potentiostat bandwidth (-3 dB): 1 MHz • Applied potential ranges: ± 10 mV, ± 50 mV, ± 100 mV, ± 650 mV, • ± 3.276 V, ± 6.553 V, ± 10 V
Application of Instrument (Limited to)	Catalyst Studies Fuel Cell Research

Department of Chemical Engineering, NIT Calicut

Major 4 or 5)	Electroplating and Coating Processes
Type of Sample Required for Analysis/Testing (Quantity, Pre-Preparation, State etc.) Guidelines for Sample Submission – User Instructions	Electrolyte Solutions Metallic Samples Biosamples
Types of Analysis/Testing	Potentiostatic and Galvanostatic Techniques
Faculty In-Charge Name / Email / Contact	Prof. Shiny Joseph shiny@nitc.ac.in 04952285404
Technical Staff Name / Email / Contact	Muhammed Munaver Muhammedmunaver@nitc.ac.in 04952285484
Location of Instrument	Instrumentation Lab
Other Details	

User Charges:

S.NO.	Type of Analysis/Testing	Internal - within Department of NITC	Internal - Other Departments NITC	External Academic Educational Institutes	National Labs	Industry
1	Potentiostatic and Galvanostatic Techniques					

Slot Booking and Payment Work Flow:

- Discuss the slot availability with the technical staff in the instrumentation lab of chemical engineering department.
- Collect the request form.
- Payment should be at the accounts section of the institute.
- Get the request form signed from the faculty in charge.
- Submit the request form and samples in the instrumentation lab.