

**Measurement of:** Electrochemical studies in solution samples that include cyclic voltammetry, linear sweep voltammetry, chrono-amperometry and electro deposition of electro active inorganic & organic materials, frequency response analysis, electrochemical impedance measurement.

**Equipment:** Potentiostat/Galvanostat

**Property Measured:** Electrochemical studies in solution samples that include cyclic voltammetry, linear sweep voltammetry, chrono-amperometry and electro deposition of electro active inorganic & organic materials, frequency response analysis, electrochemical impedance measurement.

**Photograph (small size)**



**Basic Principle:**

This equipment is useful for electrochemical analysis that includes cyclic voltammetry, chronoamperometry, frequency response analysis impedance spectra of the samples in electrolyte solution. This kind of studies can be done on inorganic (both metallic & non-metallic) and organic samples, including conducting polymers, to identify their oxidation states and other electrochemical parameters such as charge transfer resistance, capacitance & impedance.

**Capabilities:**

- a. Cyclic voltammetry.
- b. Differential pulse voltammetry.
- c. Electrochemical impedance spectroscopy.
- d. Square wave voltammetry.
- e. Linear sweep voltammetry.
- f. Potentiometric stripping analysis.
- g. Chronoamperometry

**Sample Requirement:**

This kind of studies can be done on inorganic (both metallic & non-metallic) and organic samples, including conducting polymers, to identify their oxidation states and other electrochemical parameters such as charge transfer resistance, capacitance & impedance.