

Overview of the Project: Capacitor Value Measurement using Arduino

This project measures the **capacitance** of an unknown capacitor using an **Arduino**. It follows the principle of **RC (Resistor-Capacitor) charging time**, which states that the voltage across a capacitor increases exponentially when charged through a resistor. By measuring the **time taken** for the capacitor to charge up to a certain voltage level, the capacitance value can be calculated.