

SHRI SANT GAJANAN MAHARAJ COLLEGE OF ENGINEERING, SHEGAON



Est-1983

ELECTRONICS & TELECOMMUNICATION ENGINEERING DEPARTMENT

ANALOG AND DIGITAL CIRCUIT LAB

Services offered by Analog and Digital Circuit Lab

1. IC testing

ADC lab offers checking the functionality of IC using IC tester

Device name :- Digital IC Tester

For more details:- <https://in.element14.com/leap-electronic/leaper-1a/tester-digital-ic-without-adaptor/dp/2065701>

Datasheet:- <https://www.farnell.com/datasheets/1816934.pdf>

Photo:-



2. Component testing :-

- A. ADC lab offers checking the functionality of various component like resistor, capacitor, and inductor etc.
- B. Adc lab offers measurement of values of electronic components like resistor, capacitor, and inductor etc.
- C. Adc lab offers measurement of voltage and current.

A , B, and C can be accomplished using following instruments

I. **Device Name:-** LCR meter

For more details:-

http://www.indiacatalog.com/profiles/electrical/scientech_technologies.html

Datasheet:- <https://www.keysight.com/us/en/assets/7018-02950/data-sheets/5990-7778.pdf>

Photo:-



II. **Device Name :-** Meco 9a06 Multimeter With Temperature Measurement

For more details:- <https://www.mecoinst.com/whats-new/meco-new-products.aspx?id=19>

Datasheet:- <https://www.mecoinst.com/pdf/meco-product-catalog-2023.pdf>

Photo:-



3. Electronic test instruments:

ADC lab offers electronic test instrument that graphically displays varying voltages of one or more signals as a function of time. Their main purpose is capturing information on electrical signals for debugging, analysis, or characterization. The displayed waveform can then be analyzed for properties such as amplitude, frequency, rise time, time interval, distortion, and others.

Device name:- Digital IC Tester

For more details:- <https://www.keysight.com/us/en/support/DSO1052B/oscilloscope-50-mhz-2-analog-channels.html>

Datasheet:- <https://www.keysight.com/us/en/assets/7018-01913/data-sheets/5989-9368.pdf>

Photo:-

