

**Product Name :**  
Understanding Digital Logic Circuits

**Product Code :**  
DEL0003



## Description :

Understanding Digital Logic Circuits

## Technical Specification :

### Product Description

Understanding Digital Logic Circuits is designed to fulfill requirement of performing experiments to study and understand the working principle and functioning of basic logic gates, universal gates and various logic circuits. Students can explore a wide variety of electronic concepts simply by making connections to the on board logic circuits indicated with their schematic/logic symbols. All connections and controls are clearly marked and conveniently located. It is very useful in digital electronics laboratories for performing digital experiments. It is also useful to build and test circuits as well as making projects related to digital electronics or when learning the subject.

### Product Features

- Self contained & easy to operate
- Logic symbol/ Schematic Diagram indicated on board mimic
- On Board DC Power Supplies
- Onboard Pulse Generator (TTL)
- Pulser Switches
- 8 bit Data Switches (TTL)
- 8 bit bicolor LED display
- Logic Probe
- BCD to seven segment display

---

ZIF Sockets  
Pullup Resistors

#### Scope of Learning

Study the operation of Logic AND gate and verify its Truth table  
Study the operation of Logic OR gate and verify its Truth table  
Study the operation of Logic NOT gate and verify its Truth table  
Study the operation of Logic NAND gate and verify its Truth table  
Study the operation of Logic NOR gate and verify its Truth table  
Study the operation of RS Flip-flop and verify its Truth table  
Study the operation of JK Flip-flop and verify its Truth table  
Study the operation of D Flip-flop and verify its Truth table  
Study of Logic algebra  
Study the application of logic gate circuit  
Study the implementation of simple logic design  
Study of digital combinational logic circuits  
Study the application of D Flip-flops as Shift Register  
Study the application of JK Flip-flops as Up-Down Counter

 **LAB ENGINEERING**

**Elab Engineering Equipments Manufacturers**