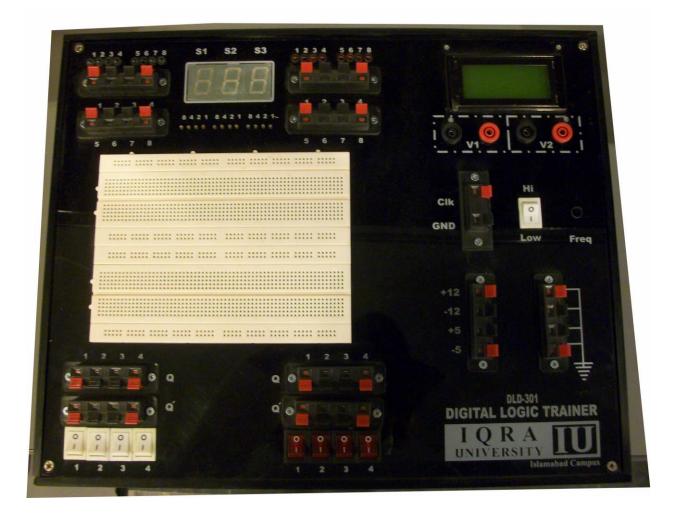
Price=55,500/- MoQ= 05 units

DIGITAL LOGIC DESIGN TRAINER

Digital Logic Design Trainer is a major part of Digital Lab. To become familiar with this part here is a complete system in which Digital Logic Design Trainer is a comprehensive and self-contained system suitable for anyone engaged in digital logic experiments. All necessary equipments for digital logic experiments such as power supply, signal generator, switches and displays are installed on the main unit.



MAIN ASPECTS OF THIS TRAINER

- > Suitable for combinational logic, sequential logic, and microprocessor circuit experimentation and Design.
- Ideal tool for learning the basics of digital logic circuits.
- Integrated training system, with complete curriculum.
- Comprehensive power supply, signal supply, and testing devices for convenient experimentation.
- > Expandability and flexibility of experiments greatly increased by large breadboard.
- Use with TTL, CMOS, NMOS, PMOS and ECL circuits.
- > All supplies equipped with overload protection.
- > 13 experiment modules form basis for over 60 fully documented experiments.
- Main units and experiment modules also available separately for economical construction of class sets.

Features:

1. Power Switch with Inner Light Indicator

- 2. Input Power Supply Power Supply 110/220V AC ±10% 50/60Hz & Fuse Protected
- 3. Fixed DC Power Supply Voltage range: +5V, -5V, +12V and -12V
- 4. Maximum current output: 1.A for +5V rail, 300mA for others
- 5. Output overload Protection (Fuses)
- 6. Removable Solder less Breadboard 1680 interconnected tie points, accepting all DIP devices, components with leads and solid wires of AWG #22-30 (0.3mm to 0.8mm)
- 7. Logic Switches with +5V
- 8. Logic Switches with Inverted Output
- 9. Logic Indicators, 5mm LED displays indicate high and low logic state
- 10. Variable Clock Generator frequency ranges From 1Hz-1000Hz
- 11. High Low Edge Triggering Switch with Frequency
- 12. Seven-Segment Displays Four sets of independent 7-segment displays, with BCD, 7-segment decoder/driver and decimal point input terminal
- 13. 4x16 LCD for Digital Volt Meter & Frequency Meter Display
- 14. Inbuilt 2 Digital Volt meters with Probes V1 & V2
- 15. Inbuilt Digital Frequency meters
- 16. input with 8-4-2-1 code Logic Probe TTL and CMOS level
- 17. Accessories Power lead
- 18. user manual

This trainer is flexible in Design as well Devices Mounted on it are not inter connected. Students have to connect all the devices in the required manner in order to perform experiments. This also allows Teachers to Design new experiments for the students as assignments

EXPERIMETS:

- 1. Familizaration with basic logic gates and,or,nor,xnor,not
- 2. Designing basic gates using Nand Universal Gates
- 3. Combinational circuit Design using basic gates
- 4. Design of half adder, full adder, 4 bit adder
- 5. Design of 4x1 and 8x1 multiplexer
- 6. Design of BCD to seven segment decoder
- 7. Design of SR Latches, SR Flip Flop, JK Flip Flop
- 8. Design of 4 bits
- 9. Basic Logic Gates
- 10. Design of Parity Generator and Checker Circuits
- 11. Design of Adders and Sub tractors
- 12. Design of Decoders/Demultiplexers/Multiplexers
- 13. Design of Comparators
- 14. Design of ALU
- 15. Design of Seven Segment Decoders
- 16. Design of BCD to seven segment decoders using 7404 IC
- 17. Design of BCD to Excess 3 Converter
- 18. Design of Up Counter
- 19. Design of Down Counter
- 20. Design of Up/Down counter
- 21. Design of Digital Clock
- 22. Design of Stop Watch
- 23. Design of Stop Watch using
- 24. Design of Latches
- 25. Design of Flip Flops (D,JK,T)
- 26. Design of Shift Registers
- 27. Design of Universal Shift Registers

For Projects

- 29. Traffic Lights Controller
- 30. Electronic Lock
- 31. BCD Calculator
- 32. Digital Clock
- 33. Digital Stop Watch
- 34. Electronic Thermometer
- 35. Water Level Sensor
- 36. Electronic Dice
- 37. Tic Tac Toe Game
- 38. Led Flasher