

Product Name :
Digital Electronic Trainer

Product Code :
ELC-WORK-0001



Description :

Digital Electronic Trainer

Technical Specification :

Study of basic gates and verification of their truth tables:-

NOT, OR, AND, NOR, NAND, EX-OR, EX-NOR.

Study and verifications of the law of Boolean algebra and De-Morgan's Theorems.

Study of important TTL terminologies. Verification of important TTL Circuit parameters.

Construction and verification of various types of flip-flops using gates and Ic's :

RS Flip-flop 4.2 J-K Flip-flop.

D Flip-flop 4.4 T Flip-flop.

Construction and verification of various types of combinational circuits:-

Half Adder.

Full Adder.

Half Subtractor.

Full subtractor.

Even / Odd Parity Checker.

Multiplexer.

Demultiplexer.

Binary to Gray Converter.

Gray to Binary Converter.

2 Bit Comparator.

Construction and verification of various types of counters:-

Down Counter.

3 Bit Synchronous Ripple UP Counter.

3 Bit Asynchronous Ripple UP Counter.

Ring Counter.

Decade Counter.

Construction and verification of 4 Bit Universal Shift Register:-

Parallel Input Parallel Output (Parallel load operation).

Shift Right Operation (Serial Input serial Output).

Shift Left Shift Register.

Study of 7 - Segment Display And Decoder / Driver.

Many other experiments are possible using the onboard components and Breadboard.

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