

**DIGITAL LABORATORY DETAILS**

<b>S.No</b>	<b>Product Name</b>	<b>Specifications (If any)/Nos. Available</b>
1	Computer with HDL Software	30
2	Dual Power Supply (0-30)V	(0-30)V
3	Digital IC Trainer Kit	30
4	Digital IC Tester	2
5	Bread Boards	10
6	Multimeter	5
7	NAND Gate	IC 7400
8	NOT Gate	IC 7404
9	8 Bit Magnitude Comparator	IC 74682
10	NOR Gate	IC 7402
11	AND Gate	IC 7408
12	3 Input AND Gate	IC 7411
13	OR Gate	IC 7432
14	4 Bit Full Adder/Subtractor	IC 7483
15	4 Bit Magnitude Comparator	IC 7485
16	XOR Gate	IC 7486
17	16 to 1 Line Multiplexer	IC 74150
18	18to 1 Line Multiplexer	IC 74151
19	4 to 16 Line Decoder	IC 74154
20	2 to 4 line Decoder	IC 74155
21	Decimal to BCD Encoder	IC 74147
22	BCD to Decimal Decoder	IC 74145
23	XNOR Gate	IC 74266
24	4 Input NAND Gate	IC 7422
25	BCD to Decimal Decoder	IC 7445
26	D Flip Flop	IC 7474
27	Dual JK Flip Flop	IC 7476
28	4 Bit Shift Register	IC 7494
29	BCD to 7 Segment Decoder	IC 7447
30	16 Bit Parity Generator/Checker	IC 74180
31	Connecting Wires	Single Strand

## HARDWARE DETAILS

SNO	DESCRIPTION OF THE EQUIPMENT	SPECIFICATION	QUANTITY
1.	8085 Trainer Kit With Onboard 8255, 8253, 8279 And 8251	Cpu : 8085 @ 3.702 Mhz Speed. Rom : 16 Kb Expandable Up To 128 Kb. Ram : 64k. Expandable Up To 128k. Parallel I/O: 48 I/O Lines. Timer : 3 Programmable Interval Timers. Serial I/O.: One 8251 Serial Port Provided.. On Board Battery Back-Up, Rs-232c Cable, Windows Based Driver Software Built-In Assembler, Dis-Assembler, Text Editor. Bus Expansion Through 26 Core Frc Cable. 5v, 3amps Smmps Power Supply.	15 Nos.
2.	Tasm/Masm Simulator In Pc (8086 Programs)	Cpu : 8086 @ 8 Mhz Speed. Eprom : 128 Kb. Expandable Up To 256kb. Ram. : 64 K. Expandable Up To 128k. Programmable Interrupt Controller I/O Lines. : 48 I/O Lines On Board 50 Pin Rfc Connecters. Timer Signals. : Timer1 And Timer2 Signals Are Brought Out To Header Pins. On Board Battery Back-Up Provided. Rs-232c Cable, Windows Based Driver Software Built-In Assembler, Dis-Assembler, Text Editor. Bus Expansion Through 26 Core Frc Cable. Power Supply. 5v, 3amps Smmps Power Supply	30 Nos.
3.	8051 Trainer Kit	Cpu : 8051 @ 11.0592 Mhz Speed. Eprom : 128 Kb. Expandable Up To 256kb. Ram. : 64 K. Expandable Up To 128k. Programmable Interrupt Controller I/O Lines. : 48 I/O Lines On Board 50 Pin Rfc Connecters, On Board Battery Back-Up. Rs-232c Cable, Windows Based Driver Software. Built-In Assembler, Dis-Assembler, Text Editor. Bus Expansion Through 26 Core Frc Cable. Printer Interface Using 25 Pin D Type Connector. Buffered Bus	15 Nos.

		Signals Through Ribbon Cable Connector For Easy System Expansion Power Supply 5v, 3amps Smmps Power Supply.	
4.	Interfacing With 8086 – Pc Add-On Cards With 8255, 8253, 8279 And 8251	Pc Add On Cards	15 Nos.
5.	Stepper Motor Interfacing Module	To Be Interfaced With 8051 Microcontroller Kit	5 Nos.
6.	Traffic Light Controller Interfacing Module	To Be Interfaced With 8051 Microcontroller Kit	5 Nos.
7.	Adc, Dac Interfacing Module	To Be Interfaced With 8051 Microcontroller Kit	5 Nos.
8	Cro's	20mhz,30 Mhz	5 Nos.
9.	Keyboard Display Interface Unit	To Be Interfaced With 8085 Kits And 8086 With Pc Add On Cards	5
10.	8251 & 8253 Interface Board	To Be Interfaced With 8085 Kits And 8086 With Pc Add On Cards	5
11.	8259 Interface Board	To Be Interfaced With 8085 Kits And 8086 With Pc Add On Cards	5
12.	8255 Interface	To Be Interfaced With 8085 Kits And 8086 With Pc Add On Cards	5

### SOFTWARE DETAILS IF APPLICABLE

S.NO	NAME OF THE SOFTWARE	NO OF USER LICENSE/FREWARE
1	Masm	30