

INDIAN INSTITUTE OF TECHNOLOGY, GUWAHATI

Component List of Hardware Laboratory

SL NO.	ITEM	DESCRIPTION	
1.	IC 7400	Quad 2-input NAND	145
2.	IC 7401	Quad 2-input NAND O/C(16mA,5V)	26
3.	IC 7402	Quad 2-input NOR	97
4.	IC 7404	Hex INVERTER	140
5.	IC 7405	Hex INVERTER O/C (16Ma,5V)	29
6.	IC 7406	Hex INVERTER O/C (40mA,30V)	35
7.	IC 7407	Hex Buffer O/C (40mA,30V)	30
8.	IC 7408	Quad 2-input AND	73
9.	IC 7409	Quad 2-input AND O/C (16mA ,5V)	33
10.	IC 7410	Triple 3-input NAND	53
11.	IC 7411	Triple 3-input AND	35 *
12.	IC 7412	Triple 3-input NAND O/C (16mA ,5V)	41
13.	IC 7414	Hex Schmitt INVERTER	30
14.	IC 7420	Dual 4-input NAND	49
15.	IC 7421	Dual 4-input AND	50
16.	IC 7425	Dual 4-input NOR with Strobe	47
17.	IC 7427	Triple 3-input NOR	49
18.	IC 7430	8-input NAND	29
19.	IC 7432	Quad 2-input OR	64
20.	IC 7433	Quad 2-input NOR O/C (16mA,5V)	30
21.	IC 7445	BCD to Decimal DECODER	19
22.	IC 7447	BCD to 7-segment DECODER Driver	116
23.	IC 7473	Dual JK Flip-Flop with CI	49
24.	IC 7474	Dual D Flip-Flop with Pr & CI (+edge)	68
25.	IC 7475	Quad LATCH	59
26.	IC 7476	Dual JK Flip-Flop with Pr & CI	30
27.	IC 7483	4-bit FULL ADDER	42
28.	IC 7485	4-bit COMPARATOR	60
29.	IC 7486	Quad 2-input XOR	76
30.	IC 7490	Decade COUNTER	50
31.	IC 7491	8-bit SHIFT RESISTER (SISO)	45
32.	IC 7492	Mod-12 COUNTER	29
33.	IC 7493	4-bit COUNTER	42
34.	IC 7495	4-bit SHIFT Reg. (PIPO RS-LS)	43
35.	IC 7496	5-bit SHIFT Reg. (PIPO)	39-40
36.	IC 74109	Dual JK Flip-Flop with Pr & CI	54 *
37.	IC 74112	Dual JK Flip-Flop with Pr & CI (--edge)	45
38.	IC 74123	Dual MONO SHOT	20
39.	IC 74125	Quad 3-State Buffer (-ve)	108
40.	IC 74126	Quad 3-State Buffer (+ve)	104
41.	IC 74147	10 to 4 PRIORITY Encoder	16
42.	IC 74148	8 to 4 PRIORITY Encoder	20

43.	IC74151	8 to 1 MUX with strobe	61
44.	IC 74153	Dual 4 to 1 MUX	54
45.	IC74154	4 to 16 DECODER	60
46.	IC74155	Dual 2 to 4 DECODER	32
47.	IC74157	Quad 2 to 1 MUX	99
48.	IC74160	Decade presetable COUNTER With Asynchronous Clear	32
49.	IC 74161	4-bit Presetable COUNTER with Asynchronous Clear	27
50.	IC74162	Decade Presetable COUNTER with Synchronous Clear	40
51.	IC74163	4 bit Presetable COUNTER with Synchronous Clear	35
52.	IC74164	8 bit SHIFT Reg. SIPO	84
53.	IC74165	8 bit SHIFT REG. PISO	65
54.	IC74168	4 bit Bidirectional COUNTER	6
55.	IC74181	4 bit ALU	40
56.	IC74191	Up/Down 4 bit COUNTER	45
57.	IC74192	Up/Down Decade COUNTER	35
58.	IC74194	Bidirectional 4 bit SHIFT Reg.	96
59.	IC74245	8-Line Tristate Trans Receiver	82
60.	IC74251	8 To 1 Tristate MUX	34
61.	IC74283	4 bit Full Adder with Fast Carry	39
62.	IC74366	Hex Tristate INVERTER	105
63.	IC74367	Hex Tristate BUFFER	105
64.	IC74373	8-bit Tristate LATCH	83
65.	IC74381	4- bit ALU	40
66.	IC2114	1K x 4-bit RAM	50
67.	IC6116	2 K x 8-bit RAM	25
68.	IC2716	2 K x 8-bit EPROM	18
69.	IC2732	4 K x 8-bit EPROM	25
70.	IC2816	2 K x 8-bit EPROM	25
71.	IC0809	A to D Converter	18
72.	IC1408	D to A Converter	18
73.	IC324	Quad OP AMP (3 to 30 V)	20
74.	IC339	Quad Analog COMPARATOR O/C	18
75.	IC555	TIMER	39
76.	IC556	DUAL TIMER	18
77.	IC741	OP AMP	49

78.	IC 7477	4 bit LATCH	19
79.	IC 74244	4 bit Buffer	30
80.	IC 7415	Triple 3-AND Gate	30
81.	IC 74132	Quad 2-NAND Schmitt Trigger	29
82.	IC 74138	1:8 Demultiplexer	30
83.	IC 74173	Quad D-type flip flop	30
84.	IC 74221		30
85.	IC 74224		*
86.	IC 74365	Buffer Driver	50
87.	IC 7446	BCD to seven Segment Decoder / Driver	98
88.	IC i8085	8 Bit Microprocessor	20
89.	IC i8279	Keyboard / Display Interface	20
90.	IC i8255A	Programmable Peripheral Interface	60
91.	IC 27128	16k x 8 bit EPROM	39
92.	IC 2N 3055		50
93.	IC SL 100 (4L100S)		30
94.	IC XR 2206		20
95.	IC ADC 0816		5
96.	IC i8253	Programmable Interval Timer	40
97.	IC AD590	Temperature Transducer	30
98.	IC i8259A	Programmable Interrupt Controller	20
99.	IC 62256 (76256)		40
100.	IC i8251A	Programmable Communication Interface	40
101.	IC DAC 0800	8 bit D/A Convertor	40
102.	IC LM 723 DIP		19

103 | DIP switch (8 switch Pack) | 60

104 | DIP switch (4 switch Pack) | 57

105 | Common cathode | 50

106 | Common anode | 25

107 Potentiometer | 35

108 Crystal (2 MHz) | 15

109 Crystal (1 MHz) | 5

110 Crystal (7 MHz) | 15

111 Crystal (3 MHz) | 15

112 Crystal (4 MHz) | 15

... Crystal (5 MHz) | 15