



MANAKULA VINAYAGAR INSTITUTE OF TECHNOLOGY

Kalitheerthalkuppam, Madagadipet, Puducherry - 605 107

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

Name of the lab: BASIC ELECTRICAL & ELECTRONICS LAB

Name of the Practical Course being conducted:

SI No.	Name of the Practical Course	Department	Semester
1	Basic Electrical & Electronics Lab	CSE	I
2	Basic Electrical & Electronics Lab	IT	I
3	Basic Electrical & Electronics Lab	MECHANICAL	I
4	Basic Electrical & Electronics Lab	EEE	II
5	Basic Electrical & Electronics Lab	ECE	II

List Of Equipment Available:

SL.NO	NAME OF THE EQUIPMENT	QTY	Price/ Unit	Total /Cost
1.	Wiring board	30 Nos	200	6000
2.	Wire stripper	7 Nos	30	210
3.	Cutting pliers	30 Nos	170	5100
4.	Screw driver (824)	30 Nos	43	1290
5.	Terminal Screw Driver (712)	30 Nos	23	690
6.	Knife	4 Nos	15	60
7.	Wire Gauge	2 Nos	140	280
8.	Buzzer	29Nos	56	1624
9.	Drilling machine ¼"	28 Nos	150	4200
10.	Nose pliers	3 Nos	150	450
11.	Cathode ray oscilloscope	5 Nos	17056	85280
12.	Function generator	5 Nos	6472	32360
13.	DC Power supply (0-32vRegulated)	5 Nos	3645	18225
14.	Thermocouple kit[Calibrator for thermocouple model 400-4]	1No	6390	6390
15.	Thermometer[Mercury 110 ⁰ C Glass stick thermometer]	1No	210	210
16.	Voltmeter (0-150/300V)MI	10 Nos	1190	11900
17.	Thermocouple kit[Digital Bench Top Calibration 4-1/2 digit model 400-4]	1 No	6390	6390

18.	Ammeter (0-10/20A) MI	10 Nos	1150	11500
19.	Wattmeter (0-150/300V) (0-10/20A) MI	5 Nos	1980	9900
20.	CRO Probe	8 Nos	195	1560
21.	Single Phase Autotransformer(0-20A)	4 Nos	8955	35820
22.	Single Phase Resistive load (0-20A)	4 Nos	8640	34560
23.	Desktop Ammeter(0-1 mA) MC	10 Nos	415	4150
24.	Desktop Ammeter(0-10 mA) MC	5 Nos	415	2075
25.	Desktop Ammeter(0-50 mA) MC	1 No	415	415
26.	Desktop Voltmeter(0-1 V) MC	12 Nos	415	4980
27.	Desktop Voltmeter(0-30 V) MC	12 Nos	415	4980
28.	Desktop Voltmeter(0-50 V) MC	12 Nos	415	4980
29.	Multimeter	4 Nos	230	920
30.	Gauge Plate	1 No	275	275
31.	Soldering iron 25w	1Nos	155	155
32.	Soldering lead 50gm	2nos	90	180
33.	Tester	12Nos	25	300
34.	¾ “ PVC Bend	30Nos	5	150
35.	Drill Bit 2.5mm	49nos	30	1470
36.	One way junction box	138	5	690
37.	Intermediate switch	40	60	2400
38.	Three way junction box	40	5	200
39.	four way junction box	22	5	110
41.	One way switch	20	55	1100
42.	1.5vbattrey	40	10	400
43.	Two way switch	118	85	10030
44.	Spanner set	1	350	350
45.	Push button switch	36	97	3492
46.	Surface Box	95	40	3800
47.	Deko Plate	93	47	4371
48.	Clamp (3/4)	37	10	370
49.	Wooden Screw (3/4)	1 pk	220	220
50.	Screw (1/2)	42	2	84
51.	Mica sheet	30	9	270
52.	Straight holder	102	25	2550
53.	Dummy	11	15	165
54.	Metal box screw (3.5* 6) Screw	200	1.25	250
55.	Ceiling Rose	70	20	1400
56.	Lamp 40W	30	11	330
57.	Regulator	4	286	1144

58.	Fan	1	1250	1250
59.	Tube light Set	3	250	750
60.	Digital Trainer Kit With IC base	5	5500	27500
61.	IC SN 7404	10	12	120
62.	Resistor	100	1	100
63.	Insulation tape roll	23	10	230
64.	3 pin top	12	35	420
65.	Hammer	1	60	60
66.	Frame	6	20	120
67.	Sony Tray (plastic)	69	22	1518
68.	Component Box (plastic)	13	5	65
69.	Diode IN 4007	100	0.5	50
70.	100 mf,16V Capacitor	35	0.8	28
71.	6V,500mA Transformer	9	70	630
72.	IC 7486	25	12	300
73.	IC 7402	52	12	624
74.	IC 7400	31	13	403
75.	IC 7432	39	13	507
76.	IC 7408	48	12	576
Total cost of the lab				3,68,006