

# GOVT. ARTS & SCIENCE COLLEGE TANUR

## DEPARTMENT OF ELECTRONICS

### LIST OF LAB EQUIPMENTS REQUIRED FOR ELECTRONICS LAB

#### PLAN FUND 2022-23

Sl No.	Name of the item	Specification	Quantity	Remarks
1	Digital Multimeter	Maximum voltage - 1000V DC, 750V AC, Maximum Current - 20A, Resistance - 40Mohm, with feunctons - Diode Test, Transistor test, Continuity, Capacitance, Frequency, Temparature Test, Auto power off, Protection	8	
2	25 Watt Soldering Iron Normal tip with Stand and cleaning sponge	High quality soldering iron with well supported metal base stand and spring holder. Make(Solderon)	1	
3	Wire cutter and Stripper	Make: PYE Tools	2	
4	PCB Board Dotted	2x4 Inch	10	
5	FR4 single side Copper Sheet	1.6mm	30	
6	Bread Board		25	
7	Transformer kit for Lab	Transformer with Center Tapped Outputs; with Short Circuit Protection and built in terminal. With Two Pin Power Cord & Illuminated On/Off Switch.12-0-12	10	
8	LM 741	General purpose Opamp	75	
9	NE555	Timer	50	
10	Potentiometer - Variable Resistor	1 K, 4.7k, 10k (20 each)	60	
11	Transistor	BC 107, BF194	50 each (50x2 = 100)	
12	Transistor	BFW 10	40	
13	Diode	1N4007	100	

14	Single strand Wire	Guage AWG 22	5 Roll	
15	Digital Storage Oscilloscope (DSO)	30 Mhz 2 Channel Oscilloscope	2	
16	CRO Probe	Oscilloscope Probe With standard BNC at one end and two Crocodile pin at other	20	
17	Function Generator	3 MHz Function-Pulse generator with 40 MHz frequency counter	2	
18	Raspberry Pi	Raspberry Pi 4 Model B, MicroSD card with NOOBS, Raspberry Pi case, USB , keyboard,USB Mouse, HDMI Cable,HDMI to VGA converter, Raspberry Pi Power supply	2	
19	Fixed Dual Power supply	5V 12V	3	
20	Battery 9 V HI Watt	9 V HI Watt Battery - for Multimeter	12	
21	Glue Gun Sticks	Trigger-fed Gun Gun Stand Included Operating Power: 40 W	10	
22	Digital Ics	7400,7402,7404,7408,7486,7432,7410,7473,7474,7476,7483,7485, 7490 - 20 Each	260	
23	Digital Ics	74153,74154,74151,74138 - 20 each	80	
24	Ceramic Capacitor	PFD(100, 220, 470)	100 each (50x3=150)	
25	Electrolytic capacitor 25 Volts	MFD(1, 4.7, 10, 22 ,47	25 Each (25x5 = 125)	
26	Electrolytic capacitor 25 Volts	MFD(100, 220, 470, 1000	10 each (10x4=40)	
27	Zener Diode	(5.1V, 9.1 V)	25 each (25x2=50)	
28	Digital voltmeter and ammeter	Maximum Supply voltage = 30V Voltage measurement - $\mu$ v, Mv,V current measurement - $\mu$ a,mA and A	8	
29	Flux			
30	Soldering lead			