

List of instruments/ equipment for Electronic Device & Circuit

Sr. No.	Name of Item	Short Specs	QTY
1	Digital Multi-meters (Make: Fluke , Any model meeting the requirements)	0-500-1000 Volts AC/DC , 0-10 A AC/DC, Continuity Tester & Other regular Features	2
2	1 MHz Function Generator with 40MHz Frequency Counter (Caddo 4060)	with Digital Readout for Frequency Frequency and Amplitude, Sine, Square, Triangle, DC outputs, FM-input / External sweep indication	2
3	30MHz Two Channel Four Trace Microcontroller Based Oscilloscope(Caddo-803)	with digital readout backlit LCD displays (Volts/ Div, Time/Div), stable triggering up to 50MHz,X10 magnification, maximum sweep speed 20ns, alternate triggering, line triggering, variable hold off, component and continuity tester, gold plated BNC connectors sharp trace CRT, auto focus	2
4	Diode Characteristic Trainer	<ul style="list-style-type: none"> • with inbuilt DC power supply, Digital Voltmeter and Ammeter Experiments: <ul style="list-style-type: none"> • Forward and Reverse Characteristics Silicon, Germanium and Zener Diode 	1
5	Transistor Characteristics Trainer	<ul style="list-style-type: none"> • with inbuilt DC Power Supply, Digital Voltmeter and Ammeter Experiment; <ul style="list-style-type: none"> • I/P & O/P characteristics of PNP and NPN Transistor. Constant current transfer characteristic 	1
6	Rectifier Trainer	<ul style="list-style-type: none"> • with inbuilt power supply Experiment; <ul style="list-style-type: none"> • The basic concepts of a DC Power Supply. Study half wave, full wave, bridge rectifiers Calculation of Ripple and Efficiency 	1
7	Hartley and Colpitts Oscillator Trainer	<ul style="list-style-type: none"> • With 12V smps adapter Experiments: <ul style="list-style-type: none"> • The basic concept with the oscillators and their use in generation of sinusoidal waveform 	1
8	Wein bridge Oscillator trainer	<ul style="list-style-type: none"> • with (+12 & -12V) inbuilt SMPS power supply Experiment; <ul style="list-style-type: none"> • The basic concepts and functioning of wein bridge Oscillator and their use in Generation of Sinusoidal waveform. 	1
9	Clipper and Clamper Trainer	<ul style="list-style-type: none"> • with built in power supply, 1 KHz sine wave generator Experiments: <ul style="list-style-type: none"> • Series positive clipper and negative clipper circuit Shunt positive and negative clipper circuit Combination clipper circuits 	1

10	FET Characteristics Trainer	<ul style="list-style-type: none"> • with built in power supply and digital voltmeter and ammeter Experiments; <ul style="list-style-type: none"> • Characteristics of FET and to evaluate AC drain resistance, trans-conductance, amplification factor and DC drain resistance 	1
11	BJT Amplifiers and Emitter with Follower trainer	<ul style="list-style-type: none"> • with power supply 12 volts and 5 volts Inbuilt sine wave generator(10Hz-100KHz)voltage 0-6 Vpp Experiments; <ul style="list-style-type: none"> • study of BJT amplifier AND Emitter follower 	1