

# REQUIREMENT OF ELECTRONICS LAB

## II EC. Electronics Lab.

SL. NO.	NAME OF ITEM	REQUIREMENTS	Approximate per Piece	Total Price	REMARKS
1.	Study panel of transistor for measuring h-parameter	02			
2.	Study panel of CE amplifier for measuring frequency response	02			
3.	Study panel of direct coupled amplifier for measuring frequency response	02			
4.	Study panel of RC- Coupled amplifier for measuring frequency response	02			
5.	Study panel of transformer-coupled amplifier	02			
6.	Study kit of cascaded amplifier for calculating of gain, input impedance and O/P impedance	02			
7.	Study panel of push-pull amplifier	02			
8.	Study panel of class-C amplifier	02			
9.	Study panel of FET for its characteristics curve	02			
10.	Study kit of hartley and colpitt's oscillator	02			
11.	Study panel of Wein Bridge and RC phase shift oscillator	02			
12.	Study panel of single and double tuned oscillator	02			
13.	Study panel of OP-AMP for verification of basic operation and curves	02			
14.	Study kit of OP-AMP as a multiplier, integrator and differentiator	03			
15.	Study panel of OP-AMP as a adder and subtractor	02			
16.	Digital voltmeter	03			
17.	Regulated DC power supply	02			
18.	Study panel for verification of different flip-flops- R-S F/F J-K F/F D F/F T F/F M-S F/F	02			
19.	Study panel for verification of shift register	02			

SL. NO.	NAME OF ITEM	REQUIREMENTS	Approximate per Piece	Total Price	REMARKS
20.	Study panel of Half adder, Full adder, Half subtractor and Full subtractor	02			
21.	Study kit for operation of Ripple counter and BCD counter	02			
22.	Transistor Regulated power supply	02			
23.	Analog ammeter and voltmeter- AC/DC of different ranges	10			
24.	Wattmeter- 500W, 1000W, 1500W	03			
25.	Universal bridge	02			
26.	Power transformer 2 KVA	02			
27.	Digital frequency meter	02			
28.	Audio generator	02			
29.	AM signal generator	02			
30.	LCR bridge	02			
31.	AC bridge panel for calibration of Inductance and Capacitance	05			
32.	Study panel of multimeter for measuring the voltage across low resistance and high resistance	02			
33.	Soldering Iron- 60 Watt. " " 80 Watt.	05 05			
34.	Soldering Iron stand-	05			
35.	Cutter	10			
36.	Stripper	05			
37.	Pliers	10			
38.	Resistance/Load resistance Rheostate (Various range)	20			
39.	Analog AC/DC multimeter	10			
40.	Auto Transformer- 260V	04			
41.	Hand drill	02			
42.	Megger	02			
43.	VTVM	02			
44.	Soldering wire	10 (small packet)			

## REQUIREMENT OF ELECTRONICS LAB

III EC. Electronics Lab.

<b>SL · N O.</b>	<b>NAME OF ITEM</b>	<b>REQUIREM ENTS</b>	<b>Approximate per Piece</b>	<b>Total Price</b>	<b>REMARKS</b>
1.	Black and white TV Trainer 14"	01			
2.	VCR Trainer	01			
3.	Audio CD/VCD/MP3	01			
4.	CCTV Trainer	01			
5.	CRT Monitor Trainer	01			
6.	Study panel for horizontal oscillator section	02			
7.	Study panel for vertical oscillator section	02			
8.	Video I.F. Section Trainer	02			
9.	Sound I.F. Section Trainer	05			
10.	Study kit for serving of VHF and UHF tuner	02			
11.	Study kit of remote control Ckt.	02			
12.	Colour decoder Ckt.	02			
13.	Switch mode power supply section	02			
14.	Regulated DC power supply 0-30V, 5 Amp.	01			
15.	Series Regulated Power Supply	02			
16.	Shunt Regulated Power Supply	02			
17.	Study panel of SCR for verification of characteristics	02			
18.	Study panel for controlled Rectifier	02			
19.	Study panel for parallel inverter Ckt.	01			
20.	Study panel for series inverter Ckt.	01			
21.	Study panel of Induction motor for various speed control method	01			
22.	Study set of speed control of DC motor	01			
23.	Study panel for speed control of synchronous motor	01			
24.	Study panel of OP-AMP for Input/Output characteristics	02			
25.	Study panel of amplifier Ckt. operation using 723 and 309 IC	02			
26.	Single phase half controlled Rectifier	01			
27.	Single phase fully controlled Rectifier	01			

<b>SL.</b>	<b>NAME OF ITEM</b>	<b>REQUIREM</b>	<b>Approximate</b>	<b>Total Price</b>	<b>REMARKS</b>
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<b>NO</b>		<b>ENTS</b>	<b>per Piece</b>		
28.	Study panel for mono stable multivibrator Ckt.	02			
29.	Study panel for Bistable Multivibrator Ckt.	02			
30.	Study kit for Astable Multivibrator Ckt.	02			
31.	Study panel for comparator Ckt.	01			
32.	Study panel for D/A converter Ckt.	02			
33.	Study panel for A/D converter	02			
34.	Study kit for R-2R ladder network	02			
35.	Study panel for sample and hold Ckt.	02			
36.	Study panel for Delta Modulation Ckt.	02			
37.	Study panel for seven segments display Ckt.	02			
38.	Bread board- big size	02			