



# INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal, Hyderabad - 500 043

## Electronics and Communication Engineering

### Laboratory Equipment - Electronic Devices and Circuits Laboratory

This laboratory provides all hardware and software required to measure the characteristics of various electronic components. The configuration of hardware and software used are detailed as follows:

- 1. Server Configuration:** Dell VOSTRO 3268, Form Factor: 2U Rack Server, Processor Series: Intel® Xeon® 7100 Product Family, Processor Sockets: 2, Max Memory Capacity: 4GB DDR4, Max Storage Capacity: **160TB HDD**, Supports Intel C610 series chipset, Supported Power Supplies: 495W, 750W, 1100W.
- 2. Operating System:** Microsoft – Microsoft – Windows 11 &amp;.
- 3. Connectivity:** 1000Mbps internet and LAN connected to campus server.
- 4. Laboratory Equipment:**

S.No	Item	Make	Quantity	Cost per Unit (Rs.)	Total Cost (Rs.)
1	Semiconductor Devices Trainer Kits (0-15DC and 12-0-12 AC) V	Physitech	17	2,625	44,625
2	Function generator (0.1-1MHz)	Physitech	16	3,680	58,880
3	Dual DC Regulated power supply (0-30V)	Physitech	08	4,800	38,400
4	Digital multimeter	Physitech	15	1,612	24,180
5	Digital voltmeters (0-20V)	Physitech	22	600	13,200
6	Digital voltmeters (0-50V)	Physitech	01	806	806
7	Digital ammeters (0-200 mA)	Physitech	29	600	17,400
8	Digital ammeters (0-200 $\mu$ A)	Physitech	26	600	15,600
9	Digital ammeters (0-50 $\mu$ A)	Physitech	02	768	1,536
10	Decade resistance box	Physitech	20	1,050	21,000
11	Decade resistance box	Physitech	15	725	10,875
12	<b>Desktop Computer Systems:</b> Vostro 3268 desktop Intel corei3-7100 processor / 4GB DDR4-1TB SATA HDD / keyboard and mouse / NO ODD / 22” Monitor	DELL	14	21,000	2,94,000
13	<b>Application software:</b> NI analog discovery version 2 trainer kits with NI Multisim 13.0 software	National Instruments	18	28,152	5,06,736
<b>Total Cost (Rs.)</b>					<b>10,47,238</b>
<b>In Words -Rupees ten lakh forty seven thousand two hundred and thirty eight Only</b>					

Date:

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