



# INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal, Hyderabad - 500 043

## Electronics and Communication Engineering

### Laboratory Equipment – Digital System Design Laboratory

This laboratory provides all hardware and software required to design and development of design and simulation of the digital circuits using VHDL software. The configuration of hardware and software used are detailed as follows:

- 1. Server Configuration:** Dell PowerEdge R730, Form Factor: 2U Rack Server, Processor Series: Intel® Xeon® E5-2650 V4, Product Family, Processor Sockets: 2, Max Memory Capacity: 32GB DDR4, Max Storage Capacity: 2x2 TB 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	ZYNQ-ZED development boards	Xilinx	12	36,441	4,37,292
2	ZYBO development boards	Xilinx	30	16,000	4,80,000
3	EMONA communication board ELVIS-III	National Instruments	01	2,23,657	2,23,657
4	NI ELVIS-II signals & systems add on board	National Instruments	01	5,68,961	5,68,961
5	Add on NI ELVIS-III control systems board	National Instruments	01	2,23,657	2,23,657
6	NI ELVIS-III hardware with accessories and cables	National Instruments	02	3,45,304	6,90,608
7	Add on NI ELVIS-III digital systems design board	National Instruments	01	71,945	71,945
8	<b>Desktop Computer Systems:</b> Vostro3470 desktop intel core i3-8100 processor / 4GB DDR4-1TB SATA HDD / keyboard and mouse / NO ODD / 22” Monitor.	DELL	24	24,750	5,94,000
9	<b>Application software:</b> Vivado Xilinx software	Xilinx	50 users	1,99,000	1,99,000
<b>Total Cost (Rs.)</b>					<b>34,89,120</b>
<b>In Words -Rupees thirty four lakh eighty nine thousand one hundred and twenty Only</b>					

Date:

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