INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal, Hyderabad - 500 043

Electronics and Communication Engineering

Laboratory Equipment – Embedded Systems Laboratory

This laboratory provides all hardware and software required to develop efficient tools, techniques and methodologies for developing energy-efficient and secure real time embedded applications using keil software. The configuration of hardware and software used are detailed as follows:

1. **Server Configuration:** Dell PowerEdge R430, Form Factor: 2U Rack Server, Processor Series: Intel® E5-2623 v3 Product Family, Processor Sockets: 2, Max Memory Capacity: 4GB 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	8051 Based development boards	UTS solutions	15	13,499	2,02,485
2	ARM7 Based development boards	Prolific	06	8,000	48,000
3	ARM9 Based development boards	Prolific	02	10,000	20,000
4	ARM cortex M3 with J-TAG –Segger J-LINK 8.08.90	Prolific	15	29,700	4,45,500
5	PSOC-FT-kit-M1 developments boards with development software	UTS solutions	01	9,750	9,750
6	PSOC-FT-kit-M3 developments boards with development software	UTS solutions.	04	14,750	59,000
7	Desktop Computer Systems: Vostro3470 / 3268 desktop Intel core-i3- 4150 processor / 4GB DDR4-500GB SATA HDD / keyboard and mouse / NO ODD / 22" Monitor	DELL	24	21,000	5,04,000
	Total Cost (Rs.)				**32,20,466**
	In Words-Thirty two lakh twenty thousand four hundred and sixty six Only				

Date: **HOD**