

Working with Machines & Materials

7.7. Tool List - IT/ITeS

S. No.	Item	Specifications	Quantity
1	Computer	Desktop or laptop or equivalent	20
2	Display	19.5" LED Monitor (at least 1366x768 resolution)	
3	Memory (RAM)	Minimum 8 GB DDR4 (4 GB is too limiting even for basic multitasking today)	
4	Operating System	Ubuntu Linux 20.04 LTS or higher or licensed Windows 10/11 (64-bit)	
5	Peripherals	Keyboard and Optical Mouse Basic headphones with mic (for virtual learning or assessments)	
6	Ports & Connectivity	At least 2 USB 3.0 ports HDMI or VGA out Ethernet port (RJ45) + Wi-Fi (802.11ac)	
7	Power Backup	UPS with at least 15–30 minutes backup per system	
8	Processor (CPU)	Intel Core i3 (11th Gen or later) or AMD Ryzen 3 (3000 series or later)	
9	Software	Open-source document, spreadsheet & presentation suite, code.org or scratch, open-source design apps	
10	Storage	256 GB SSD (preferred over HDD for speed) (If budget-constrained, a 128 GB SSD + external HDD is acceptable)	
S. No.	Item	Specifications	Quantity
11	Webcam	(720p minimum) for online classes/exams	

*Quantity (for a class of 40 students)