

CENTRAL UNIVERSITY OF PUNJAB, BATHINDA

S.No.	Specification Item	Description / Minimum Requirement Original Specifications	Amended Specifications
1	Processor	Intel Core i7, 13th Generation	Intel Core i7, 13th Generation or higher
2	Chipset	Compatible Intel chipset / OEM-integrated chipset supporting the above processor	No Amendment
3	Memory (RAM)	Minimum 16 GB DDR4/DDR5 RAM (2x8 GB or single 16 GB module), expandable up to 64 GB	No Amendment
4	Storage	Minimum 512 GB PCIe NVMe SSD (M.2 slot)	No Amendment
5	Graphics	Integrated Intel UHD / Iris Xe Graphics or equivalent; support for dual display	No Amendment
6	Optical Drive	Optional / DVD-RW (if available)	No Amendment
7	Display Monitor	23.8-inch or larger Full HD (1920 × 1080) LED / IPS Anti-glare Monitor (Same OEM preferred)	No Amendment
8	Audio	Integrated High Definition Audio with internal speaker support	No Amendment
9	Networking	Integrated Gigabit Ethernet (10/100/1000 Mbps), Wi-Fi 6 (802.11ax) and Bluetooth 5.1 or higher	No Amendment
10	Ports & Slots	Minimum: 4 × USB (at least 2 × USB 3.2 Gen 1), 1 × HDMI / DisplayPort, 1 × RJ-45 LAN Port, 1 × Audio combo jack, SD card reader (optional)	No Amendment
11	Expansion Slots	1 × PCIe x16, 1 × PCIe x1 (minimum)	No Amendment
12	Operating System	Pre-loaded Windows 11 Professional (64-bit) with license	No Amendment
13	Keyboard & Mouse	USB / Wireless Keyboard and Optical Mouse (OEM branded)	No Amendment
14	Cabinet / Chassis	Small Form Factor (SFF) or Mini Tower with efficient thermal design and tool-less access	No Amendment
15	Power Supply	250W or higher, 85% efficiency with auto voltage sensing (100–240V AC, 50/60Hz)	No Amendment
16	Security	TPM 2.0 (hardware-based security module), BIOS-level password protection	No Amendment
17	Certifications	Energy Star 8.0 , BIS certified	BIS certified
18	Warranty	Minimum 5 Years Comprehensive Onsite Warranty	No Amendment
19	Compliance & Support	OEM should have service centres across India and provide driver/firmware support for at least 5 years	No Amendment