

Course : Technology and Information Systems
Course Code : SECP 1513
Activity : PC Assembly
Section : 16
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Matric Number: A23MJ5030

This sheet should be filled in your group.

You should fill in the step numbers and the activities for each step. Once you have completed the steps, put a ✓ in the final column (for done). Once you have completed all the steps and put the check mark. Find a technician in the lab to check that you have completed all the steps correctly.

Step number	Activity	Done ✓
1. INSTALLING COMPONENTS ON THE MOTHERBOARD	(i) Placing the CPU: Align the notches of the CPU with the socket, carefully lower it in, and lock the latch securely.	✓
	(ii) Introducing the Video Card: Position the video card into the PCIe slot and fasten the latch or bracket, connect any necessary PCIe power cables.	✓
	(iii) Attaching the CPU Heat Sink Fan: Apply thermal paste to the CPU (if not pre-applied), Install the heat sink fan as per manufacturer's guidelines.	✓
	(iv) Installing the RAM: Access the RAM slots on the motherboard, Align the notches of the RAM, and firmly push down until the latches audibly click.	✓
2. MOUNTING THE MOTHERBOARD	(i) Placing the Motherboard in the Case: Align the motherboard over the standoffs, ensuring the I/O ports match with the case cutouts.	✓
	(ii) Fasten the Motherboard: Insert screws through the motherboard into the standoffs, Tighten the screws diagonally for uniform pressure distribution.	✓
3. MOUNTING THE PSU	(i) Placing the PSU: Position the power supply unit in the assigned area at the case's bottom, Orient the fan to face either the case's bottom or top, depending on the case design.	✓
	(ii) Attaching Power Cable: Connect the primary 24-pin ATX power cable to the motherboard, and link the CPU and GPU power cables	✓
4. INSTALLING THE ODD/CD-ROM	(i) Installing the Optical Drive: Fasten the optical drive securely in the assigned bay using screws.	✓
	(ii) Connecting Cables: Link the data and power cables to the optical drive, and connect the opposite end of the data cable to the motherboard	✓
5. MOUNTING THE HDD	(i) Fixing the HDD: Securely install the hard disk drive in a designated drive bay using screws.	✓

	(ii) Connecting Cables: Attach both the data and power cables to the HDD, and ensure effective cable management to prevent interference.	✓
6. CONNECTING CABLES TO COMPONENTS	(i) Powering up: Establish power connections by attaching cables to the motherboard, GPU, and other components	✓
	(ii) Data Linkage: Connect SATA cables to both the optical drive and HDD	✓
	(iii) Front Panel Connections: Establish connections for the power button, reset button, LEDs, and front audio connectors. Ensure correct pin configurations by referring motherboard manual.	✓
7. Closing the Side Cover	(i) Cable management: neatly organize and tuck away all cables to prevent any interference	✓
	(ii) Installing the Side Cover: Carefully position the side cover onto the case.	✓
	(iii) Fastening Screws: Securely tighten screws evenly to ensure the side cover is firmly in place.	✓
8. Connecting External Cables	(i) Peripherals Connections: Link the monitor, keyboard, mouse and any other peripherals	✓
	(ii) Cable Organization: Arrange external cables for a tidy setup, preventing tangling and ensuring convenient access to ports.	✓
9. Testing the Unit	(i) Preliminary Boot Test: Turn on the system and check for any unusual noises or smoke. Access the BIOS to confirm the recognition of components.	✓
	(iii) Operating System Installation: When all the checks are pass, proceed with installing the operating system. Install the required drivers and software.	✓