

Name of Subject : Computer Workshop

Class : Ist Sem Computer Engg.

Name of Teacher : Hitesh Kumar

Designation : HOD Computer Engg.

Duration : 30/07/26 to 23/11/26

Week	Slot	Practical Topic	Learning Outcomes	Activity Based Learning
Week 1	Slot 1	<i>Introduction to Computer Workshop, Safety Rules</i>	Understand workshop discipline and safety	Lab Orientation
	Slot 2	<i>Identification of Desktop Components</i>	Identify external hardware	Component Identification
	Slot 3	<i>Hardware, Software and Firmware Identification</i>	Differentiate hardware and software	Hardware Hunt
Week 2	Slot 1	<i>Motherboard Components Identification</i>	Identify motherboard sections	Label Motherboard
	Slot 2	<i>Expansion Slots, Ports and Connectors</i>	Recognize interfaces	Port Identification
	Slot 3	<i>Front and Rear Panel Connectors</i>	Connect peripherals correctly	Connector Practice
Week 3	Slot 1	<i>Processor Types and Installation</i>	Identify processors	CPU Installation
	Slot 2	<i>Bus Architecture</i>	Understand BUS concepts	Bus Identification
	Slot 3	<i>Laptop Components</i>	Identify laptop hardware	Component Mapping
Week 4	Slot 1	<i>Laptop Adapter and Battery Types</i>	Understand power management	Adapter Testing
	Slot 2	<i>Keyboard and Touchpad</i>	Identify laptop input devices	Hands-on Practice
	Slot 3	<i>UPS Online vs Offline</i>	Compare UPS types	UPS Demonstration
Week 5	Slot 1	<i>SMPS Components</i>	Identify SMPS connectors	Connector Identification
	Slot 2	<i>Opening and Closing CPU Cabinet</i>	Learn safe disassembly	Cabinet Assembly
	Slot 3	<i>Complete Hardware Revision</i>	Revise Unit-I	Group Activity
Week 6	Slot 1	<i>Primary Memory Identification</i>	Identify RAM types	RAM Comparison
	Slot 2	<i>Hard Disk and SSD</i>	Identify storage devices	Device Comparison
	Slot 3	<i>Partition Concepts</i>	Understand storage	Storage Planning

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			management	
Week 7	Session-I Practical Examination	<i>Practical Test on Unit I & II</i>	Evaluate practical skills	Individual Assessment
Week 8	Slot 1	<i>CD/DVD/Blu-ray Devices</i>	Identify optical drives	Device Study
	Slot 2	<i>Flash Drives & Memory Cards</i>	Compare flash storage	Storage Identification
	Slot 3	<i>Revision of Storage Devices</i>	Consolidate learning	Group Discussion
Week 9	Slot 1	<i>Keyboard Types & Troubleshooting</i>	Troubleshoot keyboards	Fault Detection
	Slot 2	<i>Mouse Types & Troubleshooting</i>	Troubleshoot mouse	Device Repair
	Slot 3	<i>I/O Ports Identification</i>	Identify communication ports	Port Matching
Week 10	Slot 1	<i>Display Devices</i>	Identify LCD, LED, TFT	Display Comparison
	Slot 2	<i>Graphics Cards</i>	Identify GPU types	Hardware Inspection
	Slot 3	<i>Printer Types</i>	Compare printers	Printer Demo
Week 11	Slot 1	<i>Printer Installation</i>	Install printer	Driver Installation
	Slot 2	<i>Printer Troubleshooting</i>	Diagnose printer faults	Fault Finding
	Slot 3	<i>Scanner Installation</i>	Install scanner	Scanning Exercise
Week 12	Slot 1	<i>BIOS Setup</i>	Configure BIOS	BIOS Navigation
	Slot 2	<i>POST and Beep Codes</i>	Diagnose startup issues	POST Observation
	Slot 3	<i>Antivirus Installation</i>	Install antivirus	Virus Scan
Week 13	Session-II Practical Examination	<i>Practical Test on Unit III & IV</i>	Evaluate practical competency	Individual Assessment
Week 14	Slot 1	<i>Peripheral Troubleshooting</i>	Diagnose peripherals	Fault Identification
	Slot 2	<i>Hard Disk Troubleshooting</i>	Diagnose HDD problems	HDD Testing
	Slot 3	<i>Keyboard & Mouse Troubleshooting</i>	Repair input devices	Problem Solving
Week 15	Slot 1	<i>PC Assembly</i>	Assemble computer	Complete Assembly
	Slot 2	<i>PC Disassembly</i>	Disassemble safely	Individual Practice

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	Slot 3	<i>Cable Management</i>	Organize internal cables	Cable Routing
Week 16	Slot 1	<i>Windows Installation</i>	Install Windows OS	OS Installation
	Slot 2	<i>Linux Installation</i>	Install Linux	Linux Installation
	Slot 3	<i>Partitioning & Formatting</i>	Create partitions	Storage Management
Week 17	Slot 1	<i>Device Driver Installation</i>	Install drivers	Driver Installation
	Slot 2	<i>Application Software Installation</i>	Install software packages	Software Setup
	Slot 3	<i>System Maintenance</i>	Perform preventive maintenance	Maintenance Checklist
Week 18	Sessional-III Practical Examination	<i>Practical Test on Unit V</i>	Evaluate practical competency	Individual Assessment