Name of the Faculty	MadhuMadhan
Discipline	Computer Engg
Semester and Subject	1st , COMPUTER WORKSHOP
Lesson Plan Duration	16 Weeks
Work Load (Practical) per week (in hours)	Practical-06

Week	Practical	
	Practical Day	**Topic**
1st	1st	Anatomy of a Computer, Foundations of Modern Information Technology, The Central Processing Unit
	2nd	How Microprocessors and Memory Chips are Made
2nd	3RD	Memory, Buses for Input and Output, communication With Peripherals
	4TH	Desktop: Identification of desktop and its parts, Hardware, Software and Firmware
3rd	5TH	Introduction to Mother board, IO and memory expansion slots, Drives, front panel and rear panel Processors
	6TH	Bus: Introduction and types of Processor, Introduction to BUS
4th	7TH	Laptop: Introduction to Laptop, advantages over Desktops
	8TH	Laptop components: Adapter – types, Battery – types, Laptop Keyboard and Touchpad
5th	9TH	Power Supply: Introduction to online and offline UPS, Difference between online and offline UPS
	10TH	SMPS: Introduction to SMPS, Study of SMPS Connectors
6th	11TH	Primary Memory: Introduction and types of primary memory (SDRAM, DDR RAM) Secondary Storage: Hard Disk –Working Principle of IDE, HDD Partition – Formatting
	12TH	Introduction to SATA and Solid-State Drives (SSD)
7th	13TH	Removable Storage: Introduction to CD, DVD, reading & writing operations; Introduction toBlue-ray devices
	14TH	Flash memory: Flash drives (pen drives), Memory cards and its types
8th	15TH	Inputting Text and Graphics, State of the Art, Input and Output
	16TH	Pointing Devices, Foundations of Modern Output, Display Screens, Printers, Foundations of Modern Storage, Storage Media, Increasing Data Storage Capacity, Backing up your Data, The Smart Card

9th	17TH	Keyboard: Types of keyboards (wired and wireless Keyboard), keyboards connectors, troubleshooting
	18TH	Mouse: types, connectors, operation of Optical mouse and Troubleshooting.
10th	19TH	Printers: Introduction – Types of printers- Dot Matrix, Inkjet, LaserJet, MFP (Multi-FunctionPrinter), advantages, disadvantages, cables and connectors, Troubleshooting
	20TH	I/O Ports: Introduction and identification of Serial, Parallel, USB, HDMI. Displays: Introduction to LED, LCD and TFT Displays, cables and connectorsGraphic Cards: Introduction to different types of Graphics cards
11th	21ST	Bios-setup: Standard CMOS setup, Advanced BIOS setup, advanced chipset features, PC Bios communication, upgrading BIOS, Flash BIOS -setup
	22ND	POST and BOOTING: Definition, POST Test sequence – beep codes
12th	23RD	Diagnostic Software and Viruses: Computer Viruses, Precautions,
	24TH	Anti-virus Software, Working of Antivirus software's
13th	25TH	General troubleshooting of various peripheral devices (printer, pc)
	26TH	General troubleshooting of various peripheral devices (laptop, keyboard, mouse, monitor, hard disk)
14th	27TH	Assembling of Hardware/Software
	28TH	Installation of Hardware/Software
15th	29TH	Revision
	30TH	Revision