LESSON PLAN

Name of the Institute:		C. V. RAMAN POLYTECHNIC		
Department:		CSE		
Semester/Division/Branch:		5TH SEM, CSE		
Subject Name with code:		COMPUTER HARDWARE & MAINTENANCE (TH-4)		
Total No. of	Class (Required):	60		
Faculty Name:		Manas Ranjan Mishra		
Class No.	Brief description	of the Topic/Chapter to be taught	Remarks	
		UNIT-1		
1	Introduction about computer	centre and management		
2		r engaged in computer center		
3	Need of Management in Con			
4		computers in an organization		
5	Duties and responsibilities of			
6	Need of Training of Staff	95/2007 700		
7	Idea about Various makes of	Computers	7	
	UNIT-2			
8	Introduction about site prepa	aration and how to select a suitable site		
9	Layouts of computer centre		many locations in the many of the control of the	
10	Need of False Roofing in con	mouter centre		
11	Need of Air Conditioning in c	D 1. ■ 5. (SCH 2014 SHARE) - (PAID) CONSTRUCTOR (SCH 2014)		
12	Need of Dust Proofing in con	• 17 CONTROL OF THE C		
13	Brief discussion about Power			
14	CVT and its principle of funct			
15	UPS and its principle of fund			
16			Section and the second	
	Isolation Circuits and its principle of functioning UNIT-3			
17	Components and slots - Proc	cessor socket, memory sockets		
18		o sets, Key Board/Mouse Connectors		
19	Components and slots - Jum			
20	Mother architecture	pers, Fill Connectors		
21	Mother Block Diagram			
22		cessor, Quad Core Processor		
23	Processors - Core i3,i5,i7	cessor, Quad Core Processor		
24	Processors - Core 13,13,17 Processors - AMD A10 serie	AS YOU Processor		
25	Chip Sets in motherboard	34, ACON F10063301		
26		eral Components Interconnect)		
	Bus Standards: AGP (Accele	The second secon	<u> </u>	
27	Colour Codes for Devices/po			
28	Colour Codes for Devices/po			
20	Drief discussion shout veries	UNIT-4		
29		us memory used in computer		
30	Primary Memory			
31	Secondary Memory	tion o		
32	Memory Speed and Access		00	
33	Hard Disk and its working pr		1 ×	
34	Formatting and partition of H	וטט		

35	Removal storage devices – CD, DVD, External Drives	
36	Removal storage devices – Memory Stick, Flash Drive, SSD (Solid State Drive)	
37	Keyboard - Interfacing, USB, Wireless, Types of keys, Keyboard Matrix, Key Bouncing	
38	Mouse - Interfacing, USB, Wireless	
39	Printer – Types, operation and Trouble shooting	
40	Scanner - Types, operation and Trouble shooting	
	UNIT-5	
41	Displays and Graphics Cards	
42	LCD, PLASMA, TFT, LED Displays	
43	SMPS (Basic Principles & operations, O/P voltage)	
44	BIOS(Functions, setups, types of BIOS)	
45	POST(Operation, Faults related to Hardware)	
	UNIT-6	
46	Assembly of Components of Desktop Computers	
47	Configuring Laptons and Power settings	
48	Laptop Components(Adapter , Battery, Basic problems, RAM types, CPU types, Laptop Motherboard, block diagram, Laptop Keyboard	
49	Formatting Partitioning and installation of OS	4015
50	Trouble shooting of Common ly faced problems in Desktops and Laptops	
51	Basic Maintenance concepts(Preventive, Corrective, online)	
52	Diagnostic programs and tools	
53	Methods of Trouble shooting(symptom observation, analysis, diagnosis, Correction)	
54	Up gradation of system and application software	
55	Virus concepts, Antivirus	
a grad	UNIT-7	
56	Network Interface card	-
57	Networking interconnecting devices such as hub, switch, Router	
58	Types of Network cable – Twisted Pair and Co-axial	
59	Types of Network cable – optical fibre cable	
60	Types of Network connector	

Signature of the Faculty

Signature of the H.O.D