

**Govt. Polytechnic Sundernagar (H.P.)**

**Lesson Plan Theory**

**Branch: Automobile Engineering Semester : 6th Semester Automobile Engg.(Diploma)**

**Subject : Computer Hardware & Peripherals Session :2024-2025(Jan-May,2025)**

**Teacher : Er. Sudhir Sen**

Chapter	Month	Week	Date	Chapter Description	Detail of Contents	Remarks
1	January	5th	27,28,29	<b>CHP</b>	PC components, features and system design, processor types and their features	
2	February	2nd	3,4,5	<b>Computer Hardware Devices</b>	processor specification, overview of motherboards	
		3rd	10,11,12		Bus system –data I/O bus, address bus	
		4th	17,18,19		Internal Data bus, comparing processor performance, BIOS, BIOS setup menus,	
		5th	24,25,26		Limitation of BIOS, UEFI, overview of Mobile devices hardware.	
3	March	2nd	3,4,5	<b>Input/ Output Devices and Ports</b>	Objective of I/O Devices, Types of input devices, Different printing devices and their use, Display types–CRT Monitor, LCD, LED, Plasma, OLED, HDTV, data projector	
		3rd	10,11,12		Video connector types –VGA, DVI, HDMI, S-Video, Characteristics of display devices–Resolution refresh rate, response time, color quality, USB port.	
		4th	17,18,19	<b>Memory</b>	Memory basics –ROM, RAM, Types of RAM, Differentiate between DDR and GDDR, <b>Class Test-1</b>	
		5th	24,25,26		Memory Module –Registered , Modules, SDR DIMM, DDR DIMM, DDR2 DIMM, DDR3 DIMM, DDR4 DIMM, Concept of cache –internal cache,External Cache (L1, L2, L3 cache)	
4	April	1st	1,2	<b>Storage Devices</b>	Type of storage devices, benefits and features of storage devices, Principle and operation of HDD, Basic HDD components, HDD cables and connectors	
		2nd	7,8,9		Optical Storage –CD/DVD construction technology, DVD format and standards, Concept of HD-DVD, Optical drive performance specifications –data transfer rate, drive speed, access time;Flash and removable devices –USB flash drive, SSD	
		3rd	14,15,16		Flash card readers; Concept of cloud based storage.	
		4th	21,22,23	<b>Power Supply</b>	Power supply rating, form factors, power supply connectors, Block diagram and working of SMPS, <b>Class Test-2</b>	
		5th	28,29,20		UPS –online and offline UPS, UPS Rating, comparison of UPS and inverter.	
5	May	2nd	5,6,7	<b>Networking Devices</b>	Different types of networking devices –NIC, Repeaters, Switch, Hub, router, gateways, bridge, modem, Access point, Bluetooth, <b>House Test</b>	
		3rd	12,13,14		Firewall; Internet connectivity technologies –Dial-up, ISDN, broadband, Wi-Max	
		4th	19,20,21		Leased line, Networking cables and their comparison, Networking tools.	
		5th	26,27,28	<b>Revesion, Session Closed on 29.05,2025</b>		

Signature of Teacher



Signature of H.O.D.

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