

P.G.D.C.A. Semester – II

DCA-208: Computer Assembling and Hardware Maintenance

Teaching Scheme (per week)		Teaching Scheme (per semester)		Examination Scheme					
				Internal		External		Total	
Th. (Hours)	Pr. (Hours)	Total (Hours)	Credit	Th. (Marks)	Pr. (Marks)	Th. (Marks)	Pr. (Marks)	Th. (Marks)	Pr. (Marks)
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(Practical List)

1) Introduction and Function of parts related to computer.

1. Power Supply Unit.
2. Motherboard
3. Central Processing Unit with heat sink.
4. Other Chipset.
5. RAM - Random Access Memory & ROM - Read Only Memory.
6. BIOS - Basic Input / Output System.
7. CMOS IC.
8. Different types of Buses (ISA & PCI) and Connectors.
9. Different types of I/O Ports.
10. Jumpers.
11. Display Card.
12. HDD - Hard Disk Drive.
13. FDD - Floppy Disk Drive.
14. CD-ROM Disk & Disk Drive.
15. DVD - Digital Versatile Disk.
16. NIC - Network Interface Card.
17. Sound Card.
18. Other Add-ON Cards.
19. Keyboard & Mouse.
20. MODEM.
21. Printers & Plotters
22. Scanner
23. Different types of Computer batteries.
24. Different types of Screws.

2. Operating System Fundamentals.

1. To identify the basic feature of different types of Operating System (Describe any 2 to 3 operating system for reference).

3. Computer Assembling and Configuration Assembling:

1. Hardware Fundamentals.
 - a. Function of Computer.
 - b. To identify the different parts of computer and peripherals.
2. Assemble of computer.
 - a. Collect the proper/required computer parts and tools.
 - b. Sequence steps to assemble a computer as per guidelines provided by the

expert.

c. Steps for upgrading a computer system.

4. Operating System Installation and Configuration.

1. Select the operating system
 2. Start installation as per guidelines provided by the expert.
 3. Configure/install peripherals and its device drivers.
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Practical Exam Scheme:

Written description of function and detail of computer Spare parts(any three) from syllabus	Viva	Journal	Total
40 Marks	20 Marks	10 Marks	70 Marks

Reference Books:

1. Comdex computer Hardware-Networking-Course BY Vikas Gupta (Dreamtech Press)
2. Computer Desktop Encyclopedia, Alan Freedman, Osborne/McGraw-Hill; 9th edition (September 24, 2001); eBook (2014, Updated Continuously)
3. PC Architecture, Michael Karbo, Know Ware - Competence Micro (September 2, 2002); eBook (karbosguide.dk, 2006)
4. Build a Computer from Scratch, Jeff Heaton, Heaton Research, Inc. (June 14, 2006)

Website:

<http://www.freebookcentre.net/Hardware/Free-Computer-Hardware-Books.html>

AND/OR

Any other E-book resource/ Website resources that includes the any contents of the syllabus.