

P.G.D.C.A. SEMESTER – II

DCA-209 : Computer Assembling and Hardware Maintenance

Teaching Scheme (per week)		Examination Scheme					
		INT		EXT		TOTAL	
Th. (hours)	Pr. (hours)	Th. (marks)	Pr. (marks)	Th. (marks)	Pr. (marks)	Th. (marks)	Pr. (marks)
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University Examination Duration : 3 Hours (Per Batch)

1. Hardware Fundamentals.

- Function of Computer.
- To identify the different parts of computer and peripherals.
- Function of...
 - i. Power Supply Unit.
 - ii. Motherboard
 - iii. Central Processing Unit with heat sink.
 - iv. Other Chipset.
 - v. RAM – Random Access Memory & ROM – Read Only Memory.
 - vi. BIOS – Basic Input / Output System.
 - vii. CMOS IC.
 - viii. Different types of Buses (ISA & PCI) and Connectors.
 - ix. Different types of I/O Ports.
 - x. Jumpers.
 - xi. Display Card.
 - xii. HDD – Hard Disk Drive.
 - xiii. FDD – Floppy Disk Drive.
 - xiv. CD-ROM Disk & Disk Drive.
 - xv. DVD – Digital Versatile Disk.
 - xvi. NIC – Network Interface Card.
 - xvii. Sound Card.
 - xviii. Other Add-ON Cards.
 - xix. Keyboard & Mouse.
 - xx. MODEM.
 - xxi. Printers & Plotters
 - xxii. Scanner
 - xxiii. Different types of Computer batteries.
 - xxiv. Different types of Screws.

2. Computer Assembling and Configuration.

Assembling:

- i. Collect the proper/required computer parts and tools.
- ii. Sequence steps to assemble a computer as per guidelines provided by the expert.
- iii. Steps for upgrading a computer system.

Configuration:

- Run CMOS setup utility and configure computer system.

3. Operating System Fundamentals.

- To identify the basic feature of different types of Operating Systems (DOS, Windows 9X, Windows NT, Windows 2000).

4. Operating System Installation and Configuration.

- Select the operating system
- Start installation as per guidelines provided by the expert.
- Configure/install peripherals and its device drivers.

5. Troubleshooting and Preventive Maintenance.

- To identify the proper area of error / trouble / Fault.
- To identify the software / Hardware error.
 - Software Error.
 - Installation Problem
 - Booting Problem
 - Device Driver Problem
 - File Corruption
 - Virus Problem
 - Memory Problem
 - Hardware Error.
 - Power Problem
 - Short-Circuit
 - Fusing / Burning Problem
 - Display Problem
 - Memory Problem
 - Mal functioning
- Solve it as per guidelines provided by the expert.

*** The journal must be prepared for the external Examination.**