

**H. N. G. University, Patan**  
**M.C.A. (5 Years Integrated) SEMESTER - II**  
**204 : Hardware Configuration & Solutions**

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**Unit : 1** **[20%]**

**Computer Basic**

Various types of computer, Computer hardware, All ports Software's Hardware

**Introduction of operating systems**

Introduction of windows vista, Introduction of Windows 7, Introduction of Windows XP

**Unit : 2** **[25%]**

**Hardware**

Troubleshooting Basic, Maintenance journal, Working through the problem, Diagnostic software, Diagnostic hardware, Tool kit, System tools, Control panel

**Devices**

Keyboard, Mouse, Monitor, Printer, Optical media, Hard disk drive, Floppy disk drive

**Unit : 3** **[30%]**

**Microprocessor**

CISC / RISC, Desktop microprocessor, Pentium series (P1 to Core I 7), AMD series  
Problem with microprocessor

**Motherboard**

Component of motherboard, Form factor, Power & SMPS, BIOS setup, Beep code

**Memory**

DRAM, SRAM, CHIP & Modules, Troubleshooting Memory

**Unit : 4** **[25%]**

**Basic Data Recovery**

Partitions, Master boot record, FAT/ NTFS, Restore Data, Building Pc, Equipment

**Assembling**

Software application, I/O interfaces, I/O devices, Processing, Testing

**Text Book:**

1. Comdex Hardware and Networking Course Kit  
By Vikas Gupta,  
published by dreamtech press Edition 2010

**Reference book:**

1. The Complete Reference PC Hardware,  
By craig zacker, John Rourke  
Published by TATA McGraw Hill