



## **Computer Hardware A+ Syllabus**

### **Computer H/W Architecture & Troubleshooting**

- ) The fundamentals of Computer
- ) Assembling and configuring a PC
- ) Processor types & Diff between 32 & 64 bit arch.
- ) Keyboard, Mouse, System Start Up, BIOS Setting
- ) Memory, Storage Devices management:(HDD & FDD)
- ) Motherboards & Power Supply (SMPS)
- ) Study on Notebook and Laptop architecture
- ) Parallel Ports and Serial port configuration
- ) Configuring modem for internet connectivity
- ) Configuring USB Port & Optical Storage Device
- ) Troubleshooting

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### **Operating System**

- ) Boot Process & Basic Unix Command
- ) MS-Windows XP / Win 7 Insta. & Upgrade
- ) Troubleshooting system startup and user logons
- ) User /Group Administration and profile mgmt.
- ) Printers & Scanners configuration
- ) Disk Clean Up, Disk Defragmentation
- ) Device Manager & Event Viewer
- ) Control Panel Setting in Windows
- ) Software Installation & Uninstallation
- ) Windows Services & Windows Registry
- ) Windows Troubleshooting

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### **Software Application support**

- ) Win XP desktop & Built-in applications Support
  - ) IE, Outlook Express & Remote Assistance
  - ) Online Security & Firewall
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- ) Printer Installation, Sharing & Troubleshooting

## **Computer Networking N+ Syllabus**

### **Network Fundamentals**

- ) Wireless network configuration, Remote Admin
- ) File Sharing in N/W & Remote desktop, Messenger
- ) Antivirus & Its online scanning tools.
- ) Backup, Recovery

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### **Networking Essentials**

- ) Network Definition & Networking Models
  - ) Network Addressing
  - ) Establishing a Connection & Reliable Delivery.
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- ) Network Connectivity
  - ) The OSI Model
  - ) Ethernet, Network Resources.
  - ) Token Ring/IEEE 802.5, FDDI
  - ) TCP/IP Utilities DNS, DHCP & WINS
  - ) Introduction to IPX/SPX & IPv6
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- ) **Network LAN Infrastructure**
  - ) **IP Routing & Routing Tables**
  - ) **Router Discovery Protocols**
  - ) **Virtual LANs (VLANs)**
  - ) **The WAN Environment & Connectivity devices**
  - ) **Voice Over Data Services**
  - ) **Remote Networking & Remote Access Protocols**
  - ) **VPN Technologies**
  - ) **Introduction to Network Security**
  - ) **Virus Protection**
  - ) **Local Security & Internet Security**
  - ) **Network Access & Disaster Recovery Plan**
  - ) **Data Backups & Fault tolerance**
  - ) **Clustering , NAS & SAN**
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- ) **Network Troubleshooting**