

11. IT Support

IT Support

- **Software**
 - Basic Computer/Data communication Terminology.
 - Computer Abbreviation.
 - Basics of OS, Unix/Linux and Shell Programming.
 - Programming and Database management System (C/C++/java, Object Oriented Programming, Data Structures through C++, .NET Technology, SQL Server, Oracle.
 - Web Designing (HTML, DHTML, Java Script, Flash, Photoshop)
 - Number System, Hexadecimal number system
 - Network Technologies and Internet (IP Addresses, Switches, TCP/IP, VPN, Firewall, Cryptography and System Security, Cyber Crimes)
 - Microsoft Office/ Open office (Word, Excel, power Point, Access, Outlook)
 - Cloud Computing (Cloud computing concepts, cloud deployment scenarios, Security in cloud computing)
 - Software Testing and Quality Management (Software testing, Testing techniques, Testing Process and Specialized System testing)
- **Hardware**
 - Basic Electricity and conducting material: Current, Voltage, emf, Power generation system, Switch-plug wiring, Analyzing Conductivity of elements, Types of Conductors, Semi-Conductors-Silicon, Germanium.
 - Integrated Circuits and Logic Gates (AND, OR, XOR, NOT, NAND, NOR and XNOR)
 - Maintenance and Troubleshooting of operating Systems
 - User Accounts, Windows utilities, Data backup, Protect Data from viruses, Installing , managing and troubleshooting Hardware devices and drivers, Antivirus, familiarization with DOS, CLI & Linux OS
 - Mother Board in detail: Nomenclature, technology, standards, AMD CPUs, Cyrix CPUs. CPU over clocking, troubleshooting, CPU problems. Chips Sets: AMD chip sets, Intel chip sets, VIA chip sets SIS. Chip sets, OPTI chipsets, Legacy and support ICS.
 - PC-assembly and CMOS setup and troubleshooting: Observation of all parts of HDD, CD/DVD, and SMPS, Identification of cables and computers. Mounting Motherboard in cabinet Installation of cards, device and then connecting cables. Fitting of cabinet. CMOS-Setup Troubleshooting.
 - Basic of printers: Types of Printers, Mechanism, how printer work, Inkjet printer, working of laser printer fonts/ Types-faces, troubleshooting printers.
 - Regulated Power Supply: Basic regulated power supply using Zener Diode, Basic Switch Mode Power Supply (SMPS), Basic Uninterrupted Power Supply (UPS)