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Course : 103 : Introduction to Computers

Course Content:	<p>UNIT-1: Introduction</p> <ul style="list-style-type: none">1.1 Introduction of Computer1.2 Applications of Computer1.3 Types of Computers – Super Computers, Mainframes, Mini Computers, Micro computers (Desktop, Laptop, Notebook, Tablet, Smart Phones)1.4 Block Diagram and functional units of computer <p>UNIT-2: Basic Computer Architecture</p> <ul style="list-style-type: none">2.1 Concepts of Address Bus and Data Bus2.2 Concept of virtual memory and cache memory2.3. Hardware Components<ul style="list-style-type: none">2.3.1. Motherboard2.3.2. Types of Processor (CPU and GPU)2.3.3. Understanding processor speed2.3.4. Memory – RAM(SRAM,DRAM, SDRAM), ROM, EPROM, EEPROM2.3.5. Storage Devices – Hard Disk, CD, DVD, USB flash memory2.4. Introduction to Software<ul style="list-style-type: none">2.4.1. Purpose and significance of Operating System2.4.2. Concept of System Software and Application Software <p>UNIT-3: Number System</p> <ul style="list-style-type: none">3.1 Introduction of Decimal, Binary, Octal and Hexadecimal number Systems.3.2 Conversion of Decimal to Binary and Binary to Decimal3.3 Binary addition & subtraction3.4 ASCII and ANSI character code
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Unit-4: Input & Output Devices

4.1. Introduction of Input Devices

- 4.1.1. Pointing Devices – Mouse, Trackball, Joystick, Touch Screen, Light Pen
- 4.1.2. Keyboard
- 4.1.3. RFID concepts and application in FastTag

4.2. Introduction and purpose of Scanning Devices

- 4.2.1. Optical Scanner
- 4.2.2. Bar Code Reader
- 4.2.3. Web Camera

4.3. Introduction and comparisons of Output Devices

- 4.3.1. Monitors – LED, LCD, TFT, OLED, TouchScreen Monitor
- 4.3.2. Printers – Dot Matrix Printer, Laser Printer, Inkjet Printer

Unit - 5: Concepts of Internet

5.1. Concepts of Internet and WWW

- 5.1.1 Types of Internet Services
- 5.1.2 Hardware – Modem, Router, Blue tooth, Fire-Stick
- 5.1.3 Internet connections using Hotspot, WiFi, cable

5.2 Introduction of Cloud

- 5.2.1 Concepts of cloud
- 5.2.2 Purpose and application of Cloud (Example of GoogleDoc)
- 5.2.3 Concepts of Online Data Backup

5.3 Introduction of Web Browser and relevant terminologies :

- 5.3.1 URL, Address bar, Domain, Links, Navigation Buttons
- 5.3.2 Tabbed browsing, Bookmarks, History