

Number Systems and Boolean algebra  
Decimal, Binary, Octal, Hexadecimal, Converting Techniques in Number systems, 1's Complement, 2's Complement, Computer Codes, Rules and Laws of Boolean algebra, Basic Gates (NOT, AND & OR)  
Logical Circuits  
Combinational Circuits, Sequential Circuits, Flip Flops, Shift registers, Types of shift registers, Counters  
CPU  
CPU Essentials: Modern CPU concepts: CISC vs RISC CPU, Circuit Size and Die Size, Processor Speed, Processor Cooling, System Clocks, CPU Overclocking  
Computer Memory  
Memory System, Memory Cells, Memory Arrays, Random Access Memory (RAM), Read Only Memory (ROM), Physical Devices Used to construct Memories  
Bus  
Bus: Bus Interfaces, Industry standard architectures (ISA), Micro Channel Architecture (MCA), VESA (Video Electronics Standards Association), Peripheral component interconnect, Jostackneted graphics Port, Fire, USB, Dual In-line Serial Bus, Troubleshooting  
UNIT II  
Storage Devices  
Hard Disk: Construction, IDE drive standards and features, Troubleshooting, DVD, Blue-Ray disc, Flash Memory.  
Input Output Devices  
Viral and Wireless connectivity, Wired and Wireless Devices, Input Devices, Touch Screen, Visual Display Terminal, Troubleshooting  
Introduction to Computer Software  
Computer Software, Overview of different operating systems, Overview of different application software, Overview of proprietary software, Overview of open source technology

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