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| Code: BSE-101 | First semester | Basics of Computer System | Credits: 04 |
| Course Objectives : 1. Study of motherboard components. 2. Basics knowledge of computer evolution. 3. Managing Hardware Devices. 4. Study of Computer Languages | | | |
| Course Outcome : 1. Design, install, configure, troubleshoot and manage components of computer systems. 2. Apply basic knowledge of Hardware Devices. 3. Install, manage, and maintain Computer System. 4. Best Practices for Computer assembling. | | | |
| Unit-1: | Introduction | | |
| Characters of computers, The Evolution of computer, generations of Computer, Classification of computers, Basic computer organization. | | | |
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| Unit-2: | Hardware Component on Motherboard | | |
| Mother Board and its types, Types of HDD, Types of RAM, Types of Chipsets, Microprocessor and its type, IDE and SATA cables, Other parts on motherboard. | | | |
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| Unit-3: | Input Output Devices | | |
| Input devices, Point-and-draw devices, Data scanning devices, Digitizer, Electronic card reader Output device, Monitors, Printers, Plotters, Screen image projector. | | | |
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| Unit-4: | Processor & Memory | | |
| Central processing unit, The control unit, Arithmetic logic unit ,Instruction sets , Registers, Processor speed ,Types of processors, The main memory ,Storage evaluation criteria ,Main memory organization | | | |
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| Unit-5: | Secondary Storage Devices | | |
| Sequential and Direct-Access Devices ,Magnetic tape ,Basic principles of operation Types of magnetic tapes ,Advantages & disadvantages of magnetic tapes , Uses of magnetic tapes ,Magnetic disks. | | | |
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| Unit-6: | Computer Languages | | |
| Machine Language, Advantages & Limitations of Machine Language, Assembly Language Assembler , Advantages & limitations of Assembly Language , Level Language Compiler, Linker, Interpreter, Advantages & limitations of high level language. | | | |
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| Reference Books | | | |
| 1. | Fundamental of Computer –By Pradeep K.Sinha and Priti Sinha | | |
| 2. | Fundamental of Computer System-Low price Edition. | | |
| 3. | Computer Fundamental –By Rajaraman PHI publication | | |