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| **Sl. No** | **Syllabus** | **Curriculum** | **Deployment Strategy and**  **Tool** | **Cross-cutting issues**  **integrated** | **PO, PSO and CO** | **Attainment Verification** |
| 1. | COMPUTER ORGANIZATION | * The computer organization is concerned with the structure and behaviour of digital computers. The main objective of this subject to understand the overall basic computer hardware structure, including the peripheral devices * Computer architecture deals with the design of computers, data storage devices, and networking components that store and run programs, transmit data, and drive interactions between computers, across networks, and with users. * Computer Organization and Architecture is the study of internal working, structuring and implementation of a computer system. ... Organization of computer system is the way of practical implementation which results in realization of architectural specifications of a computer system. | 1. Chalk and   Talk method   1. PPT | * Business   Ethics   * Human   values | PO1:Engineering Knowledge  PO2:Problem Analysis  PO3:Design/Development Of Solutions  PO4:Conduct Investigations Of Complex Problems  PO6: Engineer and Society  PO12: Life-long  Learning. |  |
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|  |  | PSO1:Professional Skills  PSO2:Problem Solving Skill |
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|  |  | **CO1** Acquire knowledge of   * + The basic structure of computers & machine instructions and programs, Addressing Modes,Assembly Language, Stacks, Queues and Subroutines.   + Input/output Organization such as accessing I/O Devices, Interrupts.   + Memory system basic Concepts, Semiconductor RAM Memories, Static memories,Asynchronous DRAMS, Read OnlyMemories, Cache Memories and Virtual Memories.   + Some Fundamental Concepts of Basic Processing Unit, Execution of a Complete Instruction,Multiple Bus Organization,Hardwired Control and Micro Programmed Control.   + Pipelining, embedded and large computing system architecture.   **CO2** Analyse and design arithmetic and logical units.  **CO3** Apply the knowledge gained in the design of Computer.  **CO4** Design and evaluate performance of memory systems  **CO5** Understand the importance of life-long learning |
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