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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  PO3:Design/Development Of Solutions  PO4:Conduct Investigations Of Complex Problems  PO7:Environment And Sustainability  PO12: Life-long  Learning. |  |
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|  |  | PSO1:Professional Skills  PSO2:Problem Solving Skill |
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|  |  | CO1: Explain the basic structure of computers, machine instructions, addressing modes, assembly language, Stacks, Queues, Subroutines and encoding of machine instructions. |
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|  |  | CO2: Understand the different ways of communicating with I/O devices and the use of different types of standard I/O interfaces  CO3: Understand the structure of RAM,ROM and cache memories including virtual memories and secondary storage |
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|  |  | CO4:  Describe & apply various arithmetic and logical operations with integer and floating-point operands.  CO5: Understand the basic processing unit and organization of simple processor, concept of pipelining and other large computing systems. |
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