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| **Sl. No** | **Syllabus** | **Curriculum** | **Deployment Strategy and**  **Tool** | **Cross-cutting issues**  **integrated** | **PO, PSO and CO** | **Attainment Verification** |
| 1. | Advanced Computer Architecture | 1.Knowing what's inside and how it works will help the student design, develop, and implement applications better, faster, cheaper, more efficient, and easier to use because ,they will be able to make informed decisions instead of guestimating and assuming.  2. Applications and handheld devices play a major role in ensuring comfort in our day- today life. These applications run on handheld electronic gadgets with high-end microprocessor support. Modern CPU designers handle challenges imposed by these applications with cost effective architectural enhancements.  3. The module aims to provide students with a fundamental knowledge of computer hardware and computer systems, with an emphasis on system design and performance. There is a prerequisite of CS132 Computer Organisation and Architecture.  . | 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  PO5:Modern Tool Usage  PO12: Life-long  Learning. |  |
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|  |  | PSO1:Professional Skills  PSO2:Problem Solving Skill |
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|  |  | CO1: Explain the concepts of parallel computing by applying performance metrics.  CO2:Describe and Analyze the various hardware technologies such as Memory technology, Virtual memory, Super Scalar and Vector Processors.  CO3:Demonstrate knowledge of instruction execution techniques and Evaluate operation of performance enhancements in pipeline and cache memory.  CO4:Compare and contrast the parallel and scalable architectures  CO5:Demonstrate the parallel programming concepts |
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