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| **Sl. No** | **Syllabus** | **Curriculum** | **Deployment Strategy and**  **Tool** | **Cross-cutting issues**  **integrated** | **PO, PSO and CO** | **Attainment Verification** |
| 1. | SYSTEM SOFTWARE AND COMPILER DESIGN | 1. Compiler design principles provide an in-depth view of translation and optimization process. Compiler design covers basic translation mechanism and error detection & recovery. It includes lexical, syntax, and semantic analysis as front end, and code generation and optimization as back-end.  2.Application of Compilers are:   * Compiler design helps full implementation Of High-Level Programming Languages. * Support optimization for Computer Architecture Parallelism. * Design of New Memory Hierarchies of Machines. * Widely used for Translating Programs. * Used with other Software Productivity Tools. | 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 |  |
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|  |  | PSO1:Professional Skills  PSO2:Problem Solving Skill |
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|  |  | **CO1:Analyze** the features and design options of SIC Assembler and **Apply** SIC assembler translation process to generate object program.  **CO2:Analyze** the features of various types of loaders and **Apply** the loader operation to a given program.  **CO3:Apply** lexical analyser process to recognize the tokens.  **CO4:Analyze** different types of parsers and **Apply** the parsing process for a given source string using respective grammar.  **CO5:Understand** SDD and **Apply** the operations of intermediate code generation, code generation and code optimization process to the given source code. |
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