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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 method1. PPT
 | * Business

 Ethics* Human

 values | PO1:Engineering KnowledgePO2:Problem AnalysisPO3:Design/Development Of SolutionsPO4:Conduct Investigations Of Complex ProblemsPO5:Modern Tool Usage |  |
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|  |  | PSO1:Professional SkillsPSO2: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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