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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 SolutionsPO5:Modern Tool UsagePO12: Life-longLearning. |  |
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|  |  | PSO1:Professional SkillsPSO2:Problem Solving Skill |
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|  |  | CO1:Design and Apply SIC assembler translation process of given source program to Machine language program, and Analyze the features of SIC variations, design options of SIC Assembler.CO2:Analyze the features of various types of loaders, and Apply the loader operation to a given program.CO3:Analyze and Design the process of lexical analyser. CO4:Analyze and Design different types of parsers and Apply the Parser process for a given source string and respective grammar.CO5:Understand SDD and SDT, Apply the operations of intermediate code generation phase, code generation phase, and code optimization phase to a given example source code.  |
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