|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Sl. No** | **Syllabus** | **Curriculum** | **Deployment Strategy and**  **Tool** | **Cross-cutting issues**  **integrated** | **PO, PSO and CO** | **Attainment Verification** |
| 1. | 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 |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  | PSO1:Professional Skills  PSO2:Problem Solving Skill |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  | **CO1** Apply the concept of automata in the process of designing a compiler.  **CO2** Analyze the various parser required for constructing a compiler.  **CO3** Design an effective intermediate and optimized code generator.  **CO4** Analyze the effective runtime environment required for a compiler. |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

