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| **Sl. No** | **Syllabus** | **Curriculum** | **Deployment Strategy and****Tool** | **Cross-cutting issues****integrated** | **PO, PSO and CO** | **Attainment Verification** |
| 1. | Automata Theory and Computability | 1. Formal Languages and Automata theory presents the theoretical aspects of computer science, and helps define infinite languages in finite ways; construct algorithms for related problems and decide whether a string is in language or not.
2. Each model in automata theory plays important roles in several applied areas. Finite automata are used in text processing, compilers, and hardware design. Context-free grammar (CFGs) are used in programming languages and artificial intelligence.
3. Automatic photo printing machines, artificial card punching machine, human detection and reorganization machine etc. are the real time examples of automata.
 | 1. Chalk and

Talk method1. PPT
 | * Business

 Ethics* Human

 values | PO1:Engineering KnowledgePO2:Problem AnalysisPO3:Design/Development Of SolutionsPO4:Conduct Investigations Of Complex ProblemsPO9:INDIVIDUAL AND TEAM WORK PO12: Life-longLearning. |  |
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|  |  | PSO2:Problem Solving Skill |
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|  |  | CO1: Explain the core concepts in Automata theory and Theory of ComputationCO2:Design Grammars and Automata for different language classes.CO3:Develop skills in formal reasoning and become knowledgeable about restricted models of computation such as Regular and Context free. CO4:Compare and Analyse different computational models and translate between various models.CO5:Apply formal mathematical approaches to prove properties of languages, grammars and Automata. |
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