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| **Sl. No** | **Syllabus** | **Curriculum** | **Deployment Strategy and**  **Tool** | **Cross-cutting issues**  **integrated** | **PO, PSO and CO** | **Attainment Verification** |
| 1. | DESIGN AND ANALYSIS OF ALGORITHMS LABORATORY | 1. students will be able to do the following:  * Analyze the asymptotic performance of algorithms. * Write rigorous correctness proofs for algorithms. * Demonstrate a familiarity with major algorithms and data structures. * Apply important algorithmic design paradigms and methods of analysis. * Synthesize efficient algorithms in common engineering design situations. | 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  PO12: Life-long  Learning. |  |
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|  |  | PSO1:Professional Skills  PSO2:Problem Solving Skill |
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|  |  | CO1:Apply and implement various object oriented concepts to solve real world problems.  CO2:Design algorithms using brute-force, greedy, dynamic programming, divide and conquer approaches to analyse the performance.  CO3:Implement algorithms such as sorting, graph related, combinatorial, to analyse the performance.  CO4:Apply and compare the performance of algorithms that use back tracking principle.  CO5:Apply/implement algorithm design techniques and data structures to solve real world problems. |
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