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| logo | **CHHOTUBHAI GOPALBHAI PATEL INSTITUTE OF TECHNOLOGY**  **Computer Engineering**  **Design & Analysis Algorithm (030090503)**    **Index** |

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| **Sr. No.** | **Title** | **Experimental date** | **Submission date** | **Grade** | **Signature** |
| 1 | Implement factorial algorithm using iterative and recursive manner. |  |  |  |  |
| 2 | Implement bubble sort algorithm and measure its execution time. |  |  |  |  |
| 3 | Implement insertion sort algorithm and perform its best case, average case and worst case analysis. |  |  |  |  |
| 4 | Implement quick sort algorithm and perform its best case, average case and worst case analysis. |  |  |  |  |
| 5 | Implement knapsack problem using greedy approach. |  |  |  |  |
| 6 | Implement Prim’s algorithm for finding shortest path. |  |  |  |  |
| 7 | Implement making change problem using dynamic programming. |  |  |  |  |
| 8 | Implement Longest common subsequence using dynamic programming. |  |  |  |  |
| 9 | Implement a program that can traverse a path using depth first search algorithm. |  |  |  |  |
| 10 | Implement Naïve string matching algorithm. |  |  |  |  |