**Experiment List**

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| **Name : Vishwas R. Acharya** | **Semester : 5th** |
| **Enrollment No : 181240116001** | **Department : Information Technology** |
| **Subject: Analysis and Design of Algorithm** | **Subject Code : 2150703** |
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| **Sr. No** | **AIM** | **Experiment Date** | **Submission Date** | **Signature** |
| 1 | Implementation and Time analysis of bubble sort. |  |  |  |
| 2 | Implementation and Time analysis of selection sort. |  |  |  |
| 3 | Implementation and Time analysis of insertion sort. |  |  |  |
| 4 | Implementation and Time analysis of merge sort. |  |  |  |
| 5 | Implementation and Time analysis of quick sort. |  |  |  |
| 6 | Implementation of Binary Search |  |  |  |
| 7 | Implementation and Time analysis of heap sort |  |  |  |
| 8 | 1 - Find the factorial of the given number using recursive function. |  |  |  |
| 2 - Find the Fibonacci series using recursive function. |  |  |  |
| 9 | Implementation of making change problem using dynamic. |  |  |  |
| 10 | Implementation of a knapsack problem using dynamic programming. |  |  |  |
| 11 | Implementation of chain matrix multiplication using dynamic programming |  |  |  |
| 12 | Implementation of Prim’s algorithm |  |  |  |
| 13 | Implementation of Kruskal’s algorithm |  |  |  |
| 14 | Implementation of a knapsack problem using greedy programming. |  |  |  |
| 15 | Implementation of Graph and Searching (DFS). |  |  |  |
| 16 | Implementation of Graph and Searching (BFS). |  |  |  |
| 17 | Implement LCS problem. |  |  |  |