**M.Sc C.S - I**

**SEM I**

**E-Journal**

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| **Roll No.** | 027 |
| **Name** | OJHA ABHISHEK DEVMANI |
| **Subject** | DESIGN ANALYSIS AND ALGORITHM |



CERTIFICATE

This is here to certify that Mr. **OJHA ABHISHEK DEVMANI**, Seat Number **027** of M.Sc. I Computer Science, has satisfactorily completed the required number of experiments prescribed by the UNIVERSITY OF MUMBAI during the academic year 2021 – 2022.

Date:

Place: Mumbai

Teacher In-Charge Head of Department

External Examiner

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| **Sr. No.** | **Practical Name** | **Date** |
| **1** | Write a program to implement insertion sort and find the running time of the algorithm. | 27th Aug 2021 |
| **2** | **2.A** Write a program to implement merge sot algorithm. Compare the time and memory complexity.  **2.B** Difference between Merge Sort and Insertion Sort. | 27th Aug 2021 |
| **3** | Write a program on Strassen’s algorithm for matrix multiplication and analyze its complexity. | 14th Sep 2021 |
| **4** | Implement hiring problem and analyze its complexity. | 22th Sep 2021 |
| **5** | Write a program to implement Longest Common Subsequence (LCS) algorithm | 24th Sep 2021 |
| **6** | Write a program to implement Huffman’s code algorithm | 7th Oct 2021 |
| **7** | Write a program to implement Kruskal’s algorithm. | 23rd Oct 2021 |
| **8** | Write a program to implement Dijkstra’s algorithm | 23rd Oct 2021 |
| **9** | Write a program to implement multi threaded computation concepts in the generation of Fibonacci numbers | 12th Oct 2021 |
| **10** | Write a program to implement multi threaded computation concepts in the generation of Fibonacci numbers | 30th Nov  2021 |