

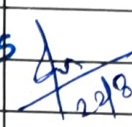
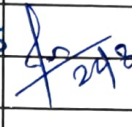
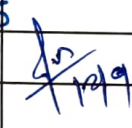
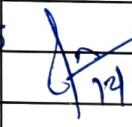
PIMPRI CHINCHWAD EDUCATION TRUST'S
PIMPRI CHINCHWAD COLLEGE OF ENGINEERING
 Sector No. 26, Pradhikaran, Nigdi, Pune - 411044

Department Of Information Technology

Year and Course TY - BTech - IT


PRN No.: 123B1F013

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|---------|---|----------|------------|---|---------|
| 1. | Implement Merge Sort to efficiently organise large scale orders based on time stamp (Divide & Conquer) | | 11/07/2025 |  | ② |
| 2. | Implement Quick Sort to enhance personalised movie ranking & improve responsiveness. | | 25/07/2025 |  | ② |
| 3. | Emergency Relief Supply Optimisation : Implement the fractional knapsack algorithm to maximum utility value within given weight constraint (Greedy Approach). | | 08/08/2025 |  | ② |
| 4. | Smart traffic management Implement Dijkstra algorithm - To determine the optimal ambulance route | | 22/08/2025 |  | ② |

This is certify that Shri. Harshvardhan Atul Borude has carried out the above mentioned Design & Analysis of Algorithm Lab Practicals / Term Work in the IT Department of Pimpri Chinchwad College of Engineering, Pune-44.

Date : 05/11/2025


 Subject Incharge
 Pimpri Chinchwad College of Engineering, Pune - 44

H.O.D. Information Technology
 Pimpri-Chinchwad College of Engineering
 Sect. 26, Pradhikaran, Nigdi, Pune - 411044
 Head of Department

PIMPRI CHINCHWAD EDUCATION TRUST'S
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| | under dynamic Traffic condition greedy approach | | | | |
| 5. | Optimal Delivery Routing implement DP to identify cost effective delivery path (Dynamic Programming) | | 12/09/2025 | for 19/9 | Ⓢ |
| 6. | Disaster Relief Resource allocation. Use 0/1 Knapsack approach to optimise essential supply allocation (Dynamic Programming) | | 19/09/2025 | for 3/10 | Ⓢ |
| 7. | University Exam Time Table Scheduling - Implement Graph Colouring Technique to generate conflict free & efficient timetables (Branch & Bound) | | 03/10/2025 | for 3/10 | Ⓢ |
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 Pimpri Chinchwad College of Engineering, Pune - 44

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Pimpri-Chinchwad College of Engineering
Sect. 26, Pradhikar, Pimpri, Dist. Pune-411 004
Head of Department