PIMPRI CHINCHWAD EDUCATION TRUST'S

PIMPRI CHINCHWAD COLLEGE OF ENGINEERING

Sector No. 26, Pradhikaran, Nigdi, Pune - 411044

Department Of Information Technology

Year and Course T.Y., Btech PRN No.: 123B1F020

INDEX

Sr. No.	Title	Page No.	Date	Signature	Remarks
1.	Implement merge sort to efficiently organize large scale orders based on timestamp.	–	11/7/25	8/8	✓
2.	Implement Quick Sort to enhance personalized movie ranking and improve responsiveness.	–	25/7/25	24/8	✓
3.	Emergency Relief supply optimization - Implement the fractional knapsack algorithm to maximize utility value within given weight constraints.	–	8/8/25	22/8	✓
4.	Smart Traffic Management - Implement Dijkstra's algorithm to determine the optimal ambulance route under dynamic traffic conditions.	–	22/8/25	29	✓

This is certify that Shri. Chaitanya Kailas Deore has carried out the above mentioned DAA Practicals / Term Work in the Information Technology Department of Pimpri Chinchwad College of Engineering, Pune-44.

Date: 5/11/25

5/11/25

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

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5.	Optimal Delivery Routing - Implement DP to identify cost effective delivery paths.	—	12/9/25	19/9	✓
6.	Disaster Relief Resource Allocation - use 0/1 knapsack approach to optimize essential supply allocation within capacity limits.	—	19/9/25	3/10	✓
7.	University Exam timetable scheduling - Implement Graph colouring techniques to generate conflict free and efficient timetables.	—	3/10/25	31/10	✓
8.	Delivery Route Optimization - apply the branch and bound algorithm to determine the least cost delivery route across cities.	—	31/10/25	5/11	✓

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