

PIMPRI CHINCHWAD EDUCATION TRUST'S
PIMPRI CHINCHWAD COLLEGE OF ENGINEERING

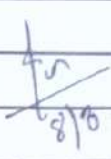

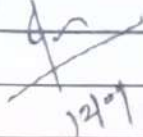

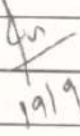

Sector No. 26, Pradhikaran, Nigdi, Pune - 411044

Department Of Information Technology

Year and Course TY B.TECH

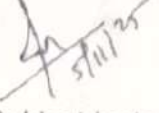
PRN No.: 123B1E014

INDEX

Sr. No.	Title	Page No.	Date	Signature	Remarks
1.	Implement merge sort to efficiently organize large scale orders on timestamp (divide and conquer)	-	11/07/25		
2.	Implement Quicksort to enhance personalized movie ranking and improve responsiveness (divide and conquer)	-	25/07/25		
3	Emergency Relief supply optimization. Implement the fractional knapsack algorithm to maximize utility value within given weight constraint (Greedy Approach)	-	08/08/25		
4.	Smart traffic management		22/08/25		

This is certify that Shri. Chaitanya Ashok Chormale has carried out the above mentioned DAA Lab Practicals / Term Work in the IT Department of Pimpri Chinchwad College of Engineering, Pune-44.

Date: 05/11/25


Subject Incharge
Pimpri Chinchwad College of Engineering, Pune - 44

H.O.D. Information Technology
Pimpri-Chinchwad College of Engineering
Sector No. 26, Nigdi, Pune-411044

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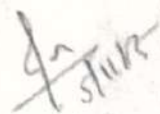
Year and Course TY B.TECH PRN No.: 12381F014

INDEX

Sr. No.	Title	Page No.	Date	Signature	Remarks
	Implement Dijkstra algorithm to determine the optimal ambulance route under dynamic traffic conditions (Greedy Approach)	—	12/09/25		
5.	Optimal Delivery Routing Implement DP to identify cost effective delivery paths (Dynamic programming)	—	19/09/25	for <i>amts</i>	⊙
6.	Disaster Relief Resource Allocation - use all knapsack approach to optimization essential supply allocation within capacity limit (Dynamic Programming)	—	19/09/25	for <i>amts</i>	⊙

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Subject Incharge
H.O.D. Information Technology
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Sector No. 26, Pradhikaran, Nigdi, Pune - 411044

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INDEX

Sr. No.	Title	Page No.	Date	Signature	Remarks
7.	University Exam Timetable scheduling - Implement Graph Coloring Technique to generate conflict free and efficient timetable (Backtracking)	—	31/10/25	Dr. S. H. S.	⊙
8.	Delivery Route Optimization apply the Branch and Bound Algorithm to determine the least cost delivery Route across cities (Branch and Bound)	—	31/10/25	Dr. S. H. S.	⊙

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