

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 IT A3-DAA Lab PRN No.: 123BIF051

INDEX

Sr. No.	Title	Page No.	Date	Signature	Remarks
1.	Implement Merge Sort to efficiently organize large scale orders based on time stamp. (to divide & conquer)	-	8/7/25	for 5/8	ⓐ
2.	Implement quicksort to enhance personalized movie ranking & improve responsiveness (divide & conquer)	-	22/7/25	for 19/8	ⓐ
3.	Emergency Relief Supply optimization - Implement the Fractional knapsack algo to maximize utility value within given weight constraint	-	5/8/25	for 19/8	ⓐ
4.	Smart Traffic Management Implement Dijkstra's algo to determine optimal ambulance route under dynamic traffic conditions	-	19/8/25	for 2/9	ⓐ

This is certify that ^{sign}Shri Miss. Pradnya Jeevan Kulkarni has carried out the above mentioned Data Analysis & Algorithms Lab Practicals / Term Work in the I.T Department of Pimpri Chinchwad College of Engineering, Pune-44.

Date : 04/11/25

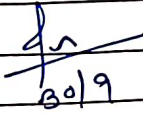
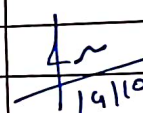
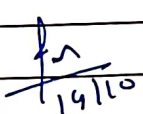
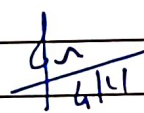

 Subject Incharge
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5.	Optimal Delivery Routing - Implement DP to identify cost effective delivery paths	-	21/9/25	 20/9	ⓐ
6.	Disaster Relief Resource allocation use 0/1 knapsack approach to optimize essential supply allocation within capacity limits.	-	23/9/25	 11/10	ⓐ
7.	University Exam Timetable scheduling. Implement Graph coloring techniques to generate conflict free & efficient timetables	-	30/9/25 19/8/25	 11/10	ⓐ
8.	Delivery Route Optimization - apply the branch & algo to determine least cost of delivery route across 5 cities	-	12/10/25	 4/11	ⓐ

This is certify that Shri. Miss. Pradnya Jeevan Kulkarni has carried out the
 above mentioned Design & Analysis of Algorithms Practicals / Term Work
 in the I.T Department of Pimpri Chinchwad College of Engineering, Pune-44.

Date : 04/11/25


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