

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. TT. A-3. DAA-Lab PRN No.: 123B1FO48

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Sr. No.	Title	Page No.	Date	Signature	Remarks
5.	Optimal Delivery Routing - Implement DP to identify cost effective delivery paths. (Dynamic Programming)	—	02/09/25	Jm 30/9	Very Good
6.	Disaster Relief Resource Allocation- use 0/1 knapsack approach to optimize essential supply allocation within capacity limits. (Dynamic Programming)	—	23/09/25	Jm.. 14/10	Very Good
7.	University Exam timetable scheduling- Implement Graph coloring techniques to generate conflict free and efficient timetables. (Greedy / Backtracking)	—	30/09/25	Jm 14/10	Very Good
8.	Delivery Route Optimization- apply the branch and bound algorithm to determine least cost of delivery route across cities. (Branch and Bound)	—	14/10/25	Jm 4/11/25	Very Good

This is certify that Shri. Kinjal Amit Heda has carried out the above mentioned Design Analysis And Algorithms Lab Practicals / Term Work in the Information Technology Department of Pimpri Chinchwad College of Engineering, Pune-44.

Date : 04/11/25

*Jm
4/11/25*
Subject Incharge
Pimpri Chinchwad College of Engineering, Pune - 44

H.O.D. Information Technology
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Sr. No.	Title	Page No.	Date	Signature	Remarks
1.	Implement Merge sort to efficiently organize large scale orders based on time stamp. (Divide and Conquer)	—	08/07/25	Jm 2/7	Very Good
2.	Implement Quick sort to enhance personalized movie ranking and improve responsiveness. (Divide and Conquer)	—	22/07/25	Jm 19/8	Very Good
3.	Emergency Relief Supply Optimization - Implement the fractional knapsack algorithm to maximize utility value within given weight constraint. (Greedy Algorithm)	—	05/08/25	Jm 19/8	Very Good
4.	Smart Traffic Management - Implement Dijkstra's algorithm to determine the optimal ambulance route under dynamic traffic conditions. (Greedy Algorithm)	—	19/08/25	Jm 19/9	Very Good

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