

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

Department Of Information Technology

Year and Course TY B tech PRN No.: 123B1F021

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Sr. No.	Title	Page No.	Date	Signature	Remarks
1.	Implement Merge Sort to efficiently organize large scale orders based on timestamp (Divide and Conquer)	-	7/7/25	Jun 17/25	V.Good
2.	Implement Quick Sort to enhance personalized movie ranking and improve responsiveness (Divide and Conquer)	-	21/7/25	Jun 28/25	V.Good
3.	Emergency Relief Supply Optimization - Implement the Fractional Knapsack algorithm to maximize utility value within given weight constraints (Using greedy approach for fractional knapsack)	-	4/8/25	Jun 18/25	V.Good

This is certify that Shri. Shreyash S. Desai has carried out the
above mentioned Design and Analysis of Algorithms Lab Practicals / Term Work
in the I.T. Department of Pimpri Chinchwad College of Engineering, Pune-44.

Date : 03/11/25

I am Srinivas H.O.D. Information Technology
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4.	Smart Traffic Management: Implement Dijkstra's algorithm to determine the optimal ambulance route under dynamic traffic conditions & (Dijkstra's Algorithm)	-	23/8/25	Jm. 25/8	V. Good
5.	Optimal Delivery Routing: Implement DP to identify cost effective delivery path (Dynamic Programming)	-	25/8/25	8/9	V. Good
6.	Disaster Relief Resource Allocation. Use 0/1 knapsack approach to optimize essential supply allocation within capacity limits (Dynamic Programming)	-	21/9/25	Jm. 15/9	V. Good

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 Subject Incharge **H.O.D. Information Technology**
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7.	University Exam timetable scheduling : Implement Graph colouring techniques to generate conflict free and efficient timetables (Greedy optimization)	-	15/9/25	Jan 2019	Good
8.	Delivery Route optimization: - Apply the Branch and Bound algorithm to determine the least cost delivery route across cities (Branch and Bound)	6/10/25	Jan 2010		Good

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Date : 03/12/25

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