

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-B.Tech PRN No. 12301F005

INDEX

Sr. No.	Title	Page No.	Date	Signature	Remarks
1.	Implement Merge sort to efficiently organize large scale orders based on timestamp (Divide & Conquer)	-	11/7/25	5/11/25	②
2.	Implement Quick sort to enhance personalized movie making & improve responsiveness (Divide & conquer)	-	25/7/25	5/11/25	②
3.	Emergency Relief Supply optimization. Implement the fractional Knapsack algorithm to maximize utility value within given weight constraint (Greedy Approach)	-	8/8/25	5/11/25	②
4.	Smart Traffic Management Implement Dijkstra's algorithm	-	23/8/25	5/11/25	②

This is certify that Shri. Suraj Sushant Bahirwade has carried out the above mentioned Design & Analysis of Algorithm lab 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 Head of Department
 Pimpri Chinchwad College of Engineering, Pune - 44

H.O.D. Information Technology
 Pimpri-Chinchwad College of Engineering
 Sect. 26, Pradhikaran, Nigdi, Pune-411044

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	to determine the optimal ambulance route under dynamic traffic condition (Greedy Approach)				
5.	Optimal Delivery Routing Implement DP to identify cost effective delivery path (Dynamic Programming)	-	12/9/25	for 3/10	②
6.	Disaster Resource Allocation- Use of Knapsack approach to optimize essential supply allocation. (Dynamic Programming)	-	19/9/25	for 3/11/25	②
7.	University Exam Timetable scheduling - Implement Graph Colouring Technique to	-	3/10/25	for 5/11	②

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	generate conflict free & efficient timetables (Branch & Bound)				
8.	Delivery Route optimization- -Apply the branch & bound algorithm to determine the least cost delivery route across cities. (Branch & Bound)	-	31/10/25	Ar 5/11	②

Date: 5/11/25

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