

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.: 123B1F044

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Sr. No.	Title	Page No.	Date	Signature	Remarks
1.	Implement MergeSort to efficiently organize large scale order on timestamp.	8/7/25	for 15/8	(c)	
2.	Implement Quicksort to enhance personalized ranking & improve responsive	22/7/25	for 19/8	(c)	
3.	Emergency Relief supply Optimization implement the Fractional Knapsack algorithm to maximize utility value within given weight constraints	5/8/25	for 29	(c)	
4.	Smart Traffic conditions Implement Dijkstra's Algo to determine the optimal ambulance route.	19/8/25	for 29	(c)	
5.	Optimal delivery routing implement DP to identify cost effective delivery paths.	21/9/25	for 23/9	(c)	

This is certify that Shri. Vedant Manoj Kengale has carried out the above mentioned Design & Analysis Algorithm Lab Practicals / Term Work in the IT Department of Pimpri Chinchwad College of Engineering, Pune-44.

Date : 4/11/25


 Subject Incharge Sect. Head of Department
 Pimpri Chinchwad College of Engineering, Pune - 44

H.O.D. Information Technology
 Pimpri Chinchwad College of Engineering, Pune - 44

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6.	Disaster relief resource allocation use 0/1 knapsack approach to optimize essential supply allocation within capacity limits.		23/3/25	J.M. 14/10	(D)
7.	University Exam Timetable Scheduling - Implement graph coloring techniques to generate conflict free & efficient timetables.		30/8/25	J.M. 14/11	(D)
8.	Delivery route optimization apply the branch & bound algorithm to determine the least cost delivery route across across cities.		14/10/25	J.M. 14/11	(D)

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