

PIMPRI CHINCHWAD EDUCATION TRUSTS
PIMPRI CHINCHWAD COLLEGE OF ENGINEERING

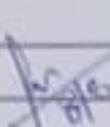
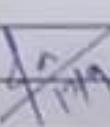
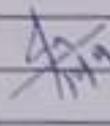
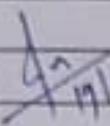
Sector No. 26, Pradhikaran, Nigdi, Pune - 411044

Department Of Information Technology

Year and Course T.Y.B.Tech

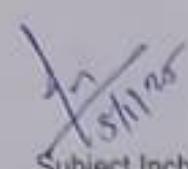
PRN No. 123B1FO05

INDEX

Sl. No.	Title	Page No.	Date	Signature	Remarks
1.	Implement Merge sort to efficiently organize large scale entries based on timestamp (Divide & Conquer)	-	11/7/25		()
2.	Implement Quick sort to enhance personalized movie making & improve responsiveness (Divide & Conquer)	-	25/7/25		()
3.	Emergency Relief Supply optimization. Implement the fractional knapsack algorithm to maximize utility value within given weight constraint (Greedy Approach)	-	8/8/25		()
4.	smart Traffic Management Implement Dijkstra algorithm	-	22/8/25		()

This is certify that Shri. Sunaji 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

H.O.D. Information Technology

Pimpri-Chinchwad College of Engineering
Sect. 26, Pradhikaran, Nigdi, Pune-411044

Head of Department

Pimpri Chinchwad College of Engineering, Pune - 44

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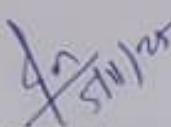
PRN No.: 123B1F005

INDEX

Sr. No.	Title	Page No.	Date	Signature	Remarks
	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	Dr 13/9/25	(C)
6.	Disaster Resource Allocation- Use a). Knapsack approach to optimize essential supply allocation. (Dynamic Programming)	-	19/9/25	Dr 19/9/25	(C)
7.	University Exam Timetable Scheduling - Implement Graph Colouring Technique to	-	3/10/25	Dr 3/10/25	(C)

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INDEX

Sr. No.	Title	Page No.	Date	Signature	Remarks
	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)	- 31/02/25	4-5/11	0	

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