

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. T. B. Tech.

PRN No.: 123B1F009

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	Jn 10/11	(C)
2.	Implement quick sort to enhance personalized movie ranking and improve responsiveness (Divide & Conquer)	-	25/7/25	Jn 18/8	(C)
3.	Emergency Relief Supply Optimization - Implement the fractional knapsack algorithm to maximize utility value within given weight constraint (Greedy Approach)	-	8/8/25	Jn 04/08	(C)
4.	Smart Traffic management - Implement Dijkstra's algorithm to determine the optimal ambulance route	-	22/8/25	Jn 17/9	(C)

This is certify that Shri: Miss Shivanjali S. Bho sale has carried out the

above mentioned Design & Analysis of Algorithm Laboratory Practicals / Term Work
 in the T.T. Department of Pimpri Chinchwad College of Engineering, Pune-44.

Date : 5/11/2025

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

H.O.D. Information Technology
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	route under dynamic traffic condition. (Greedy Approach)				
5	Optimal Delivery Routing Implement DP to identify cost effective delivery path. (Dynamic Programming)	-	12/9/25	11/9/25	①
6	Disaster Resource Allocation Use 0/1 Knapsack approach to optimize essential supply allocation. (Dynamic Programming)	-	19/9/25	3/10	②
7	University Exam Time-table Scheduling- Implementation Graph Colouring	-	3/10/25	31/10	Very Good

This is certify that Shri. Miss. Shiranjali S. Bhosale has carried out the above mentioned Design & Analysis of Algorithm Practicals / Term Work in the I.T. Department of Pimpri Chinchwad College of Engineering, Pune-44.

Date : 5/11/2025

Dr. S. T. Joshi
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PIMPRI CHINCHWAD EDUCATION TRUST'S
PIMPRI CHINCHWAD COLLEGE OF ENGINEERING
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Department Of Information Technology

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	Technique to generate conflict free and efficient timetables (Backtracking)				Very Good
8.	Delivery Route Optimization - Apply the branch and Bound algorithm to determine the least cost delivery route across cities. (Branch and Bound)	-	31/10/25	J. M. Patel	

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