

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

Department Of Information Technology.

Year and Course Third year Btech PRN No.: 123B5F138

INDEX

Sr. No.	Title	Page No.	Date	Signature	Remarks
1.	Implement Merge sort to efficiently organize large scale orders based on timestamp (Divide and Conquer).	-	9/7/25	<i>[Signature]</i> 29/7	Very Good
2.	Implement Quick sort to enhance personalized movie ranking and improve responsiveness (Divide and Conquer).	-	23/7/25	<i>[Signature]</i> a/b	Very Good
3.	Emergency Relief supply optimization: Implement the fractional knapsack algorithm to maximize utility value within given weight constraint. (Greedy Approach).	-	6/8/25	<i>[Signature]</i> 20/8	Very Good

This is certify that Shri. Rachana Dixit has carried out the above mentioned Design analysis and algorithm. Practicals / Term Work in the Information Technology. Department of Pimpri Chinchwad College of Engineering, Pune-44.

Date : 05/11/25.

[Signature]
H.O.D. Information Technology
 Pimpri-Chinchwad College of Engineering,
 Sect. 26, Pradhikaran, Nigdi, Pune-411044
 Subject Incharge Head of Department
 Pimpri Chinchwad College of Engineering, Pune - 44

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4.)	Smart Traffic Management Implement Dijkstra algorithm to determine the optimal ambulance route under dynamic traffic conditions (Greedy Approach).	-	28/08/25	<i>[Signature]</i> 24/09	Very Good
5.)	Optimal Delivery Routing Implement DP to identify cost effective delivery paths (Dynamic Programming)	-	10/09/25	<i>[Signature]</i> 24/9	Very Good
6.)	Disaster Relief Resource Allocation: use 0/1 knapsack approach to optimization essential. supply allocation within capacity limit. (Dynamic Programming)	-	24/09/25	<i>[Signature]</i> 11/10	Very Good

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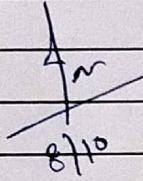
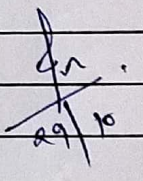
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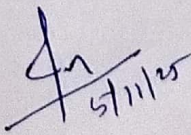
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7.	University Exam Timetable scheduling - Implement Graph coloring Technique to generate conflict free and efficient timetable (Backtracking).	-	8/10/25		Very Good
8.	Delivery Route Optimization apply the branch and bound Algorithm to determine the least cost delivery Route across cities (Branch and Bound).	-	8/10/25		Very Good

This is certify that Shri. Rachana Dixit has carried out the above mentioned Design analysis and algorithm Practicals / Term Work in the Information Technology Department of Pimpri Chinchwad College of Engineering, Pune-44.

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