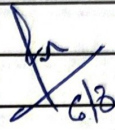
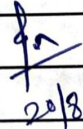
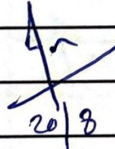


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Department Of Information Technology
 Year and Course Third Year - Btech PRN No.: 124B2F001

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1.	Implement merge sort to efficiently organize page state orders based on timestamp [Divide and conquer]	-	9/7/25		②
2.	Implement quick sort to enhance personalized movie ranking and improve responsiveness [Divide & Conquer]	-	23/7/25		②
3.	Emergency relief supply optimization: implement the fractional knapsack algorithm to maximize utility value with given weight constraint [Greedy approach]	-	6/8/25		②

This is certify that Shri. Amar Vajinath Chavan 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 : 05/11/2025

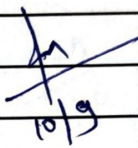
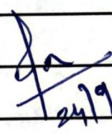
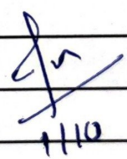

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4.	Smart traffic management implement dijkstra's algorithm to determine the optimal ambulance route under dynamic traffic conditions [Greedy approach]	-	20/8/25	 10/9	②
5.	Optimal delivery routing implement DP to identify cost effective delivery path [DP]	-	10/9/25	 24/9	②
6.	disaster relief resource allocation. Use of knapsack approach to optimization essential supply allocation within capacity limit	-	24/9/25	 11/10	②

This is certify that Shri. Amar Vajinath Chavan has carried out the
 above mentioned Design & analysis of algo. Lab Practicals / Term Work
 in the Information Technology Department of Pimpri Chinchwad College of Engineering, Pune-44.

Date : 05/11/2025


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Sr. No.	Title	Page No.	Date	Signature	Remarks
7	University exam timetable scheduling - implement graph coloring technique to generate conflict free efficient timetable [backtracking]	-	11/10/25	<i>[Signature]</i> 21/10	©
8	delivery route optimization - analyzing the branch and bound algorithm to determine the least cost delivery across city [branch & bound]	-	8/10/25	<i>[Signature]</i> 5/11	©

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

Date : 05/11/2025

[Signature]
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