Department Of _Information Technology_

Year and Course _BTech IT TY_   PRN No.: _123B1F046_

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Sr. No.	Title	Page No.	Date	Signature	Remarks
1.	Implement Merge Sort to efficiently organize large scale orders based on timestamp (Divide & Conquer)	—	08/07/25	5/8	(c)
2.	Implement Quick Sort to enhance personalized movie ranking & improve responsive (Divide & Conquer)	—	22/07/25	5/8	Very Good (c)
3.	Emergency Relief Supply Optimization — Implement the Fractional knapsack algorithm to max utility value within given weight (Greedy Algorithm)	—	05/08/25	19/8	Very Good (c)
4.	Smart Traffic Management Implement Djkstra's Algo to determine optimal ambulance route under dynamic condition (Greedy Algorithm)	—	19/08/25	23/9	Very Good

This is certify that Shri. _Saloni Vijay Khandelwal_ has carried out the

above mentioned _Design Analysis & Algorithm_ Practicals / Term Work

in the _Information Technology_ Department of Pimpri Chinchwad College of Engineering, Pune-44.

9/11/25

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

Date : 04/11/25

PIMPRI CHINCHWAD COLLEGE OF ENGINEERING

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

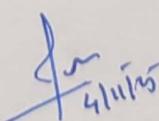Department Of _Information Technology_

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Sr. No.	Title	Page No.	Date	Signature	Remarks
5.	Optimal Delivery Routing Implement DP to identify cost effective delivery path. (Dynamic Programming)	—	02/09/25	30/9	Very Good
6.	Disaster Relief Resources Allocation. Use 0/1 knapsack approach to optimize essential supply allocation capacity. (Dynamic Programming).	—	23/09/25	14/10	Very Gud
7.	University Exam Timetable Scheduling. Implement Graph Colouring techniques to generate conflicts free timetables. (Greedy / Backtracking)	—	80/9/25	14/10	Very Good
8.	Delivery Route Optimization - apply the branch & bound algorithm to determine least cost delivery route across cities (Branch & Bound)	—	14/10/25	4/11/25	Very Good.

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4/11/25

Subject Incharge

Head of Department
Pimpri Chinchwad College of Engineering, Pune - 44

Date : 04/11/25