

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

Department Of Information Technology

Year and Course 'TY' BTech 'IT' PRN No.: 123B1F035

INDEX

Sr. No.	Title	Page No.	Date	Signature	Remarks
1.	Implement Merge Sort to efficiently organize large scale orders based on timestamp (Divide & conquer)	-	07/07/25	<u>Anil</u> 11/7	(C)
2.	Implement quick sort to enhance personalized movie ranking & improve response (Divide & conquer)	-	21/07/25	<u>Anil</u> 11/8	(C)
3.	Emergency Relief supply Optimization - Implement the Fractional Knapsack algorithm to max utility value within given weight (Greedy Algorithm)	-	04/08/25	<u>Anil</u> 11/8	(C)
4.	Smart Traffic Management Implement Dijkstra's Algo to determine optimal ambulance route under dynamic cond ⁿ (Greedy Algorithm)	-	11/08/25	<u>Anil</u> 11/9/25	(C)

This is certify that Shri. Shruti Vacantrao Jadhav has carried out the above mentioned Design Analysis of Algorithm Practicals / Term Work in the IT Department of Pimpri Chinchwad College of Engineering, Pune-44.

Date : 03/11/25

~~31/10/25~~
 Subject Incharge Pimpri Chinchwad College of Engineering H.O.D. Information Technology
Head of Department
Second Year Engineering, Nigdi, Pune - 44

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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)	-	25/08/25	Jn 15/09/25	①
6.	Disaster Relief Resources Allocation - use 0/1 knapsack approach to optimize essential supply allocation & capacity (Dynamic Programming)	-	02/09/25	Jn 16/10	①
7.	University - Exam Timetable Scheduling - Implement Graph colouring techniques to generate conflicts free timetables (Greedy / Backtracking)	-	15/09/25	Jn 15/10/25	①
8.	Delivery Route Optimization - apply the branch & bound algorithm to determine least cost delivery route across cities. (Branch & Bound)	-	06/10/25	Jn 31/11/25	①

This is certify that Shri. Shruti Vasantrao JadHAV has carried out the above mentioned Design Analysis & Algorithm Practicals / Term Work in the IT Department of Pimpri Chinchwad College of Engineering, Pune-44.

Date : 03/11/25

*Jn
31/11/25*

Subject Incharge **H.O.D. Information Technology**
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Head of Department

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