

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 B.Tech PRN No.: 123BIE022

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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	-	07/07/25	Jm. 14/7	Good
2.	Implement Quick Sort to enhance personalized movie ranking and improve responsiveness.	-	21/07/25	Jm. 28/7	Good
3.	Emergency Relief Supply Optimization - Implement the Fractional Knapsack algorithm to maximize utility value within given weight constants.	-	04/08/25	Jm. 28/8	V. Good
4.	Smart Traffic Management - Implement Dijkstra's algorithm to determine the optimal ambulance route under dynamic traffic.	-	11/08/25	Jm. 8/9	V. Good

This is certify that Shri. Varad Sushant Deshmukh has carried out the above mentioned Design and analysis of Algorithm Lab Practicals / Term Work in the I. T Department of Pimpri Chinchwad College of Engineering, Pune-44.

Date : 03/11/25

*Jm
31/11/25*

H.O.D. Information Technology
Pimpri-Chinchwad College of Engineering
 Sector No. 26, Pradhikaran, Nigdi, Pune-411044
 Pimpri Chinchwad College of Engineering, Pune - 44

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5.	Optimal Delivery Routing - Implement DP to identify best efficient delivery path.	-	25/08/25	Jn. 8/9	OK
6.	Disaster Relief Resources Allocation - use 0/1 Knapsack approach to optimize essential supply allocation within capacity limits.	-	01/09/25	Jn. 15/9	OK
7.	University Exam Timetable scheduling - Implement graph colouring technique user to generate conflict free and efficient timetables.	-	15/9/25	Jn. 13/10	OK
8.	Delivery Route Optimization - apply the branch and bound algorithm to determine the least cost delivery route among cities.	-	06/10/25	Jn. 13/10	OK

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

Date : 03/11/25

*Jn.
Suresh*
Subject Incharge
Pimpri Chinchwad College of Engineering, Pune - 44

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