

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

## INDEX

Sr. No.	Title	Page No.	Date	Signature	Remarks
1.	Implement Merge Sort to efficiently organize large scale orders based on timestamp	-	07/07/25	<u>dm</u> 14/7	Good
2.	Implement Quick Sort to enhance personalized movie ranking and improve responsiveness.	-	21/07/25	<u>dm</u> 20/7	Good
3.	Emergency Relief Supply Optimization - Implement the Fractional Knapsack algorithm to maximize utility value within given weight constraints.	-	04/08/25	<u>dm</u> 25/8	V. Good
4.	Smart Traffic Management - Implement Dijkstra's algorithm to determine the optimal ambulance route under dynamic traffic.	-	11/08/25	<u>dm</u> 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

dm  
13/11/25  
Subject Incharge  
Pimpri Chinchwad College of Engineering, Pune - 44

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







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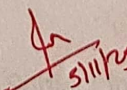
Year and Course TY B.Tech PRN No.: 123B1FO22

## INDEX

Sr. No.	Title	Page No.	Date	Signature	Remarks
5.	Optimal Delivery Routing - Implement DP to identify least efficient delivery path.	-	25/08/25		ok
6.	Disaster Relief Resources Allocation - use 0/1 Knapsack approach to optimize essential supply allocation within capacity limits.	-	01/09/25		ok
7.	University Exam Timetable scheduling - Implement Graph colouring technique used to generate conflict free and efficient timetables.	-	15/9/25		ok
8.	Delivery Route Optimization apply the branch and bound algorithm to determine the least cost delivery route across cities.	-	06/10/25		ok

This is certify that Shri. Vinod Subham Deshmukh 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.

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