

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

Department Of Information Technology

Year and Course IT B-tech PRN No.: 123B1F010

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Sr. No.	Title	Page No.	Date	Signature	Remarks
1.	Implement Merge sort to efficiently organize large scale orders based on time	—	22/8/25 11/7/25	Am 8/8	②
2.	Implement quicksort to enhance personalized movie ranking and improve responsiveness	—	12/9/25 25/7/25	Am 8/8	②
3.	Emergency Relief supply optimization. Implement the fractional knapsack algorithm to maximize utility value within given weight constraint	—	8/8/25	Am 24/8	②
4.	Smart traffic management. Implement Dijkstras algorithm to determine the optimal route under dynamic traffic condition	—	22/8/25	Am 1/9	②

This is certify that Shri. Aditya Namdeo Bhoje 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 : 5 /11/25

Am
still/25
Subject Incharge
Pimpri Chinchwad College of Engineering, Pune - 44

H.O.D. Information Technology
Pimpri-Chinchwad College of Engineering
 Sect. 26, Pradhikaran, Nigdi, Pune-411044
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5.	Optimal Delivery Routing	—	12/9/25	<i>[Signature]</i>	②
	To identify cost effective delivery path.				
6.	Disaster Resources Allocation	—	19/9/25	<i>[Signature]</i>	②
	use all knapsack approach to optimize essential supply allocation				
7.	University exam timetable	—	2/10/25	<i>[Signature]</i>	②
	Implement graph colouring technique to generate conflict free & efficient timetable				
8.	Delivery Route optimization	—	3/10/25	<i>[Signature]</i>	②
	apply the branch and bound algorithm to determine the least cost delivery route across cities				

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