

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 (2025-26) PRN No.: 123BIF043

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Sr. No.	Title	Page No.	Date	Signature	Remarks
I.	Implement mergesort to efficiently organize large scale order on Timestamp	-	8/7/25	<u>[Signature]</u> 19/8	ⓐ
II.	Implement quicksort to enhance personalized movie ranking improve responsive	-	22/7/25	<u>[Signature]</u> 19/8	ⓐ
III.	Emergency relief supply optimization implement the fractional knapsack algo. to maximize utility value within given weight constraints	-	5/8/25	<u>[Signature]</u> 19/8	ⓐ
IV.	Smart traffic conditions implement dijkstra's algo to determine the optional ambulance route	-	19/8/25	<u>[Signature]</u> 27/9	ⓐ
V.	Optimal delivery routing implement DP to identify cost effective delivery paths.	-	2/9/25	<u>[Signature]</u> 30/8	ⓐ

This is certify that Shri. Om Hemant Katole has carried out the above mentioned Design & Analysis of Algorithm Practicals / Term Work in the Information Technology Department of Pimpri Chinchwad College of Engineering, Pune-44.

Date : 04/11/2025

[Signature]
4/11/25

Subject Incharge
 Pimpri Chinchwad College of Engineering, Pune - 44

H.O.D. Information Technology
 Pimpri-Chinchwad College of Engineering
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 Head of Department

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<u>VI.</u>	Disaster relief resource allocation use 0/1 Knapsack approach to optimize essential supply allocation within capacity limits.	-	23/9/25	<u>4r</u> 14/10	Ⓢ
<u>VII.</u>	University exam time table scheduling - Implement graph coloring techniques to generate conflict free & efficient time tables.	-	30/9/25	<u>4r</u> 14/11	Ⓢ
<u>VIII.</u>	Delivery route optimization apply the branch & bound algo. to determine the least cost delivery route across cities.	-	14/10/25	<u>4r</u> 14/11	Ⓢ

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