

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

Department Of Information Technology.

Year and Course T.Y. B.Tech ( 2025 - 26 ) PRN No.: 123B1F036

## INDEX

Sr. No.	Title	Page No.	Date	Signature	Remarks
I.	Implement mergesort to efficiently organize large scale orders based on Timestamp.	→	7-7-25	Jn 14/7	(C)
II	Implement quicksort to enhance personalized movie ranking & improve responsiveness.	→	21-7-25	Jn 28/7	(C)
III.	Emergency relief supply optimization implement the fractional knapsack algorithm to maximize utility value within given weight constraints.	→	4-8-25	Jn 18/8	(C)
IV.	Smart traffic management implement dijkstra's algorithm to determine the optional ambulance route under dynamic traffic conditions.	→	15-8-25	Jn 19/8	(C)
V.	Optimal delivery routing - Implement DP to identify cost effective delivery paths.	→	25-8-25	Jn 31/8	

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

Date : D3/11/2025

  
 Subject Incharge      Head of Department  
 Pimpri Chinchwad College of Engineering, Pune - 44

*H.O.D. Information Technology*  
*Pimpri-Chinchwad College of Engineering*  
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Sr. No.	Title	Page No.	Date	Signature	Remarks
VI.	Disaster relief resource allocation - Use knapsack approach to optimize essential supply allocation within capacity limits.	-	15-9-25	gmr 15/9	(C)
VII.	University Exam timetable scheduling - Implement graph coloring techniques to generate conflict free & efficient timetables.	-	15-9-25	gmr 15/9	(C)
VIII.	Delivery route optimization - apply the branch & bound algorithm to determine the least cost delivery route across cities	-	6-10-25	gmr 15/10	(C)

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in the I.T. Department of Pimpri Chinchwad College of Engineering, Pune-44.

Date : 03/11/2025

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