

**PIMPRI CHINCHWAD COLLEGE OF ENGINEERING**

Sector No. 26, Pradhikaran, Nigdi, Pune - 411044

Department Of Information TechnologyYear and Course T.Y : B.TechPRN No.: 123B1F016**INDEX**

Sr. No.	Title	Page No.	Date	Signature	Remarks
1.	Implement Merge Sort to efficiently organize large scale orders based on timestamp. (Divide & Conquer)	-	11/7/25	J.S.B X8B	②
2.	Implement Quick Sort to enhance personalized movie ranking and improve responsiveness (Divide and Conquer)	-	25/7/25	J.S.B	②
3.	Emergency Relief Supply Optimization. Implement the Fractional knapsack algorithm to maximize utility value within given weight constraint. (Greedy Approach)	-	8/8/25	J.S. Apr 21	②

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

Date : 5/11/25

5/11/25  
Subject Incharge

H.O.D. Information Tech.  
Pimpri-Chinchwad College of E.  
Sect. 26, Pradhikaran, Nigdi, Pune - 44  
Head of Department  
Pimpri Chinchwad College of Engineering, Pune - 44

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Sr. No.	Title	Page No.	Date	Signature	Remarks
4.	Smart Traffic Management	-	22/8/25	Jr 19/9	①
	Implement Dijkstra's algorithm to determine the optimal route under dynamic traffic condition. (Greedy Approach)				
5.	Optimal Delivery Routing. To identify cost effective delivery path. (Dynamic Programming)	-	12/9/25	Jr 18/10	①
6.	Disaster Resource Allocation. Use 0/1 knapsack approach to optimize essential supply allocation. (Dynamic Programming)	-	19/9/25	Jr 18/10	①
7.	University Exam Timetable. Implement Graph colouring Technique to generate conflict free & efficient timetable. (Branch & Bound)	-	8/10/25	Jr 19/10	①

This is certify that Shri. Tai Chandegave has carried out the above mentioned Design & Analysis of Algorithm Lab Practicals / Term Work in the IT Department of Pimpri Chinchwad College of Engineering, Pune-44.

Jr 5/11/25  
 Subject Incharge  
 Pimpri Chinchwad College of  
 Sector 26, Pradhikaran, Nigdi  
 Head of Department  
 Pimpri Chinchwad College of Engineering, Pune - 44

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Date : 5/11/25

~~Dr. S. S. Patil~~

~~Asst. Smt. S. S. S.~~

**H.O.D. Information Technology**  
**Pimpri-Chinchwad College of Engineering**  
**Sect. 26, Pradhikaran, Nigdi, Pune - 411040**

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