

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 - IT

PRN No.: 123B1F013

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Sr. No.	Title	Page No.	Date	Signature	Remarks
1.	Implement Merge Sort to efficiently organise large scale orders based on time stamp (Divide & Conquer)		11/07/2025	Jr. 1/2/8	①
2.	Implement Quick Sort to enhance personalised movie ranking & improve responsiveness.		25/07/2025	Jr. 1/2/8	②
3.	Emergency Relief Supply Optimisation : Implement the fractional knapsack algorithm to maximum utility value within given weight constraint (Greedy Approach).		08/08/2025	Jr. 1/2/9	③
4.	Smart traffic management Implement Dijkstra algorithm - To determine the optimal ambulance route		22/08/2025	Jr. 1/2/9	④

This is certify that Shri. Harshwardhan Atul Borude 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.

Date : 05/11/2025


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

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	under dynamic Traffic condition greedy approach				
5.	Optimal Delivery Routing implement DP to identify cost effective delivery path (Dynamic Programming)	12/09/2025	J.n 19/19	J.n ②	
6.	Disaster Relief Resource allocation. Use 0/1 Knapsack approach to optimise essential supply allocation (Dynamic Programming)	19/09/2025	J.n 3/10	J.n ③	
7.	University Exam Time Table Scheduling - Implement Graph Colouring Technique to generate conflict free & efficient timetables (Branch & Bound)	03/10/2025	J.n 3/10	J.n ④	

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

Date : 05/11/2025

~~Philip Chinchwad~~

Subject Incharge
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