

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., Btech

PRN No.: 123B1F020

INDEX

Sr. No.	Title	Page No.	Date	Signature	Remarks
1.	Implement merge sort to efficiently organize large scale orders based on timestamp.	-	11/7/25	Jn 8/8	①
2.	Implement Quick Sort to enhance personalized movie ranking and improve responsiveness.	-	25/7/25	Jn 24/8	①
3.	Emergency Relief supply optimization - Implement the fractional knapsack algorithm to maximize utility value within given weight constraints.	-	8/8/25	Jn 8/8	①
4.	Smart Traffic Management - Implement Dijkstra's algorithm to determine the optimal ambulance route under dynamic traffic conditions.	-	22/8/25	Jn 17/9	①

This is certify that Shri. Chaitanya Kailas Devre has carried out the above mentioned DAA

Practicals / Term Work in the Information Technology Department of Pimpri Chinchwad College of Engineering, Pune-44.

Date: 5/11/25

*Jn
5/11/25*
 Subject Incharge **H.O.D. Information Technology**
 Pimpri-Chinchwad College of Engineering
 Sect. 26, Pradhikaran, Nigdi, Pune-411044
 Head of Department
 Pimpri Chinchwad College of Engineering, Pune - 44

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., Btech

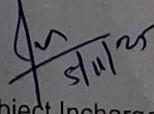
PRN No.: 123B1F020

INDEX

Sr. No.	Title	Page No.	Date	Signature	Remarks
5.	Optimal Delivery Routing - Implement DPT to identify cost effective delivery paths.	—	12/9/25	Jn 19/9	①
6.	Disaster Relief Resource Allocation - use 0/1 knapsack approach to optimize essential supply allocation within capacity limits.	—	13/9/25	Jn 3/10	②
7.	University Exam timetable scheduling - Implement Graph colouring techniques to generate conflict free and efficient timetables.	—	3/10/25	Jn 3/10	③
8.	Delivery Route Optimization - apply the branch and bound algorithm to determine the least cost delivery route across cities.	—	31/10/25	Jn 3/11	④

This is certify that Shri. Chaitanya Kailas Deore has carried out the above mentioned DAA Practicals / Term Work in the Information Technology Department of Pimpri Chinchwad College of Engineering, Pune-44.

Date : 5/11/25


 Subject Incharge **H.O.D. Information Technology**
 Pimpri-Chinchwad College of Engineering
 Sect. 26, Pradhikaran, Nigdi, Pune-411044
 Pimpri Chinchwad College of Engineering, Pune - 44