

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.: 123131F057

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1	Implement Merge Sort to efficiently organize large scale Orders based on timestamp	-	8/7/25	Dr 5/8	①②
2	Implement quick sort to enhance personalized movie ranking and improve responsiveness	-	22/7/25	Dr 5/8	③
3	Emergency Relief Supply Optimization Implement fractional Knapsack algorithm to maximize utility value within given weight constraints	-	5/8/25 13/9/25	Dr 5/9	④

This is certify that Shri. Sankarshan Satish Mahamuni, has carried out the
above mentioned DAA Lab Practicals / Term Work
in the F.T. Department of Pimpri Chinchwad College of Engineering, Pune-44.

Date : 4/11/25

 **H.O.D. Information Technology**
Pimpri-Chinchwad College of Engineering
Sect. Head of Department, Pune-411044
Subject Incharge
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4	SMART Traffic Management - Implement Dijkstra's algorithm to determine the optimal ambulance route under dynamic traffic conditions.	-	19/8/25	Anil 14/10	(C)
5	Optimal delivery Routing - Implement Dijkstra's algorithm to identify cost-effective delivery path	-	21/8/25	Anil 14/10	(C)
6	Disaster Relief Resource Allocation use 0/1 Knapsack approach to optimize essential supply -	-	23/8/25	Anil 14/10	(C)

This is certify that Shri. Sankarsan S Mahamuni has carried out the above mentioned DAA lab Practicals / Term Work in the I.T. Department of Pimpri Chinchwad College of Engineering, Pune-44.

Date: 4/11/25


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	- allocation within capacity limits				
7	University exam timetables scheduling	-	30/9/25	Jn 19/10	(C)
	Implement Graph colouring techniques				
	uses to generate conflict free and efficient TT.				
8	Delivery Route Optimization - applying the branch and bound algorithm to determine the least cost delivery route across cities.	-	14/10/25	Jn 21/10	(C)

This is certify that Shri. Sankarsan S Mahamuni has carried out the above mentioned DSA lab Practicals / Term Work in the I.T. Department of Pimpri Chinchwad College of Engineering, Pune-44.

Date: 4/11/25

*Jn
4/11/25*
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