

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 PRN No.: 124028606

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1>	Implement merge sort to efficiently organize large scale orders based on timestamp (divide and conquer)	-	5-7-25	<del>Dr. S. S. Patil</del> (C)	
2>	Implement quick sort to enhance personalized movie ranking and improve responsiveness (divide and conquer)	-	23/7/25	<del>Dr. S. S. Patil</del> (C)	
3>	Emergency Relief Supply optimization: Implement the functional knapsack algorithm to maximize utility value within given weight constraint (Greedy Approach)	-	6-8-25	<del>Dr. S. S. Patil</del> (C)	

This is certify that Shri. Neha Gulbush Tadevi P has carried out the above mentioned Design analysis & algorithm Practicals / Term Work in the Information Technology Department of Pimpri Chinchwad College of Engineering, Pune-44.

Date : 5-11-25

*Dr. S. S. Patil*  
Subject Incharge      H.O.D. Information Technology  
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4)	Smart Traffic management Implement Dijkstru algorithm to determine the optimal ambulance route under dynamic traffic conditions (Greedy Approach)	20-8-25		X 110	①
5)	Optimal Delivery Routing Implement DP to identify cost effective delivery paths	10-9-25		X 110	①
6)	Disaster Relief Resource Allocation - use 0/1 knapsack approach to optimize essential supply allocation within capacity limits	24-9-25		X 110	①

This is certify that Shri. Neha Gulhaksh Tadavi has carried out the above mentioned Design Analysis & Algorithm Practicals / Term Work in the Information Technology Department of Pimpri Chinchwad College of Engineering, Pune-44.

Date : 5 - 11 - 25

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