## Title of the Project : Route Optimization for Emergency Vehicles

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## ABSTRACT

In this modern era getting struck in busy traffic for hours makes human impatient. Movement of emergency vehicles among these busy routes has become more tougher. So there is an immediate need for an optimized traffic flow control. This work delivers the study of traffic flow analysis in busy areas. Implementation of a suitable algorithm to analyze quick route to reach the destination for emergency vehicle is being analyzed here. This method is based on graph theory, where the data in the data sheet is first converted into graph with nodes and edges. Here, nodes represent the area and the edge represents the time required to travel through. The edges are given with different weight i.e. the distance and the traffic percentage in that route. Based on the value of these data the total time required to travel through the route is calculated. Based on this calculated value the shortest path is obtained by using the Dijkstra’s algorithm.