

## **TITLE OF THE PROJECT -**

The study of traffic congestion in certain area and providing alternative sources to manage traffic congestion with the help of GIS.

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## **KEY WORDS –**

- PCU (Passenger car unit)
- GIS (geographic information system)

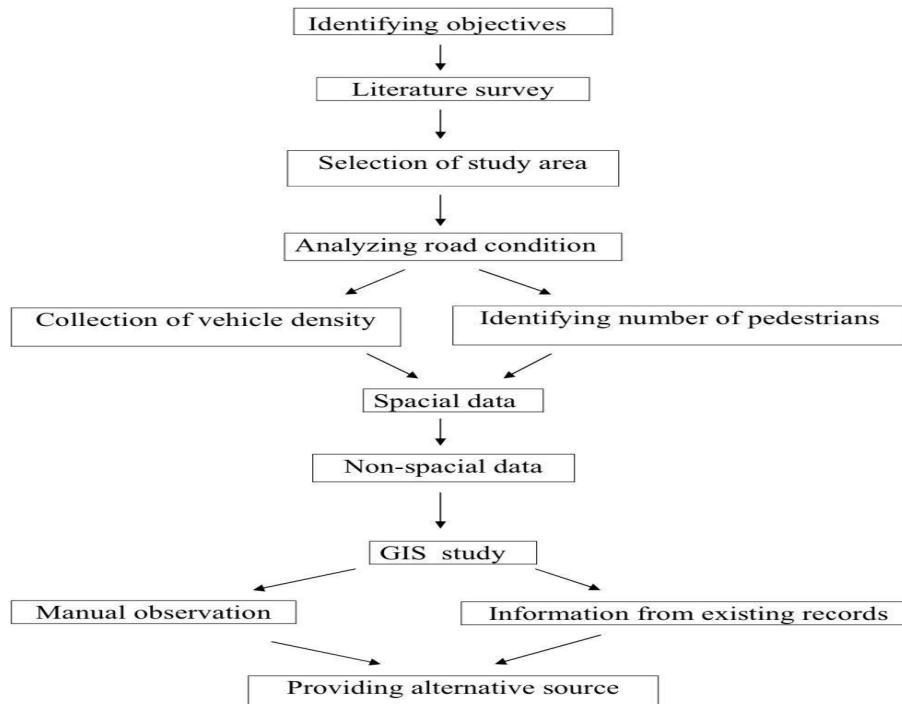
## **INTRODUCTION –**

The growth of the city depends upon a lot of parameters in that transportation is a key element. Traffic congestion occurs when the transit network fails to fulfill the traffic volume. Improper parking, slow speed, and mixed vehicle traffic are some of the traffic congestion parameters. Traffic survey: Traffic engineers and planners need information about traffic. They use the information for planning and designing traffic facilities, and selecting geometric standards and use this to justify the warrant of traffic control devices such as science, traffic signals, pavement marking, and school and pedestrian crossing. GIS can be used by engineers to collect and analyze geographic data, It can be displayed in layered visualization using the digital geographic map. It can help in the assessment and management of traffic congestion by mapping out the various factors that influence the speed of moving vehicles, the width of the road, construction work, road structure, and various land uses that attract vehicle traffic.

## OBJECTIVES –

Traffic management is aimed at minimizing adverse impacts of traffic by analyzing vehicle density, transit volume, and the number of pedestrians and studying traffic congestion in a certain zone of the area, and providing an alternative source to avoid traffic congestion. The other objective is to achieve an efficient, free, and rapid flow of traffic with the least number of accidents.

## METHODOLOGY -



## RESULT AND CONCLUSION –

**Tin factory** - Separate bus stand has to be built for the two different lanes and different road networks. The lanes should be divided from the beginning of the dividers. Pedestrians should be stopped from walking into the pavement area and crossing roads. Metro construction vehicles should be parked in a proper manner.

**Kr market** - Temporary construction happening on either side of the road has to be stopped. Roadside vendors, fruits, and vegetable sellers should stop standing in between the roads. Proper parking facilities should be provided for the customers who come to the market.

**Hebbal** - Separate bus lanes should be provided for the outer ring road. There should be a separate elevated corridor from the city to Airport. Bus stops should be isolated from the main road. There should be a separate place for the cab's waiting area.

Signature of the Guide

