

# **INTELLIGENT TRAFFIC CONTROL SYSTEM**

A project report submitted in partial fulfillment of the requirements  
for the award of the Degree of

## **BACHELOR OF TECHNOLOGY IN COMPUTER SCIENCE & ENGINEERING**

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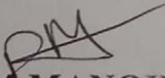
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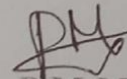
**CERTIFICATE**

This is to certify that the Project Report entitled "*INTELLIGENT TRAFFIC CONTROL SYSTEM*" being submitted, G.PADMA(16811A0529), B.SARASWATHI(16811A0506), B.SURENDRA(16811A0505) L.SAI ANIL CHOWDARY(16811A0543) in partial fulfilment of the requirements for the degree of **B.Tech (C.S.E) in Department of Computer Science & Engineering**, at **AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY** affiliated by **Jawaharlal Nehru Technological University Kakinada**, is a record of bonafide work carried out by them under my guidance and supervision.

The results embodied in this thesis have not been submitted to any university or institute for the award or any degree of diploma.



**P.M.MANOHAR**  
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# ABSTRACT

Traffic is a major concern for most of the metropolitan cities of the world. Efficient traffic management can have a major impact on the country's economy. This paper proposes a new digital-logic based system which is more efficient than currently used traffic control systems. The intelligent traffic control system (ITSC) is based on a simple principle; the principle being that "a car can only move ahead if there is space for it" and "the signal remains green until the present cars have passed". By placing sensors at every entry and exit of a junction and monitoring the number of cars present at the junction, it is possible to make traffic very efficient, which is a good application of digital signal processing. However, absolute advantage of such a system will only be felt if every junction in a city is controlled by this system.