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VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI-

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**A MICRO PROJECT REPORT ON
“USING LOOP DETECTORS CONTROLLING TRAFFIC
LIGHT”**

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CERTIFICATE

This is to certify that the Micro-Project entitled **“USING LOOP DETECTORS CONTROLLING TRAFFIC LIGHT”** has been Successfully Completed by

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The bonafide students of **Department of Basic Sciences, Alva's Institute of Engineering and Technology**, affiliated to **VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI**, during the academic year 2020–2021. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report. The report has been approved as it satisfies the academic requirements in respect of Micro-Project work prescribed for Bachelor of Engineering.


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Mini Project Guide


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ABSTRACT

Loop detectors ensure that traffic lights are controlled accurately and reliably. Each lane has two inductive loop detectors, one before and one after the stop line. Every passing car is tracked and recorded. It is possible to set a delay time. After that time, any car that passes is photographed twice in quick succession. The first shot depicts the crime, while the second indicates that the vehicle was in motion. The camera is set up in such a way that the red light can be seen in the image. Cars and trucks are distinguished through loop detection. For each category, a distinct speed threshold can be installed. When the lights are green, red, or amber, the traffic signal cameras can also be used to measure speed.