

# **INTELLIGENT TRAFFIC CONTROL SYSTEM USING FUZZY LOGIC**

**This is present in partial fulfillment for the award of  
Bachelor of Engineering (Hons) Electrical  
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(Date : 25.04.2008.....)

## **DECLARATION**

This thesis, entitle “Intelligent Traffic Control System using Fuzzy Logic” is a presentation of my original research work. Wherever contributions of others are involved, which are not the results of my own work, have been clearly acknowledged in this thesis. I further certify that the work is original and has not been previously submitted for assessment in any other course or institution, except where specifically stated.

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## **ABSTRACT**

This report paper is intended to document a report for EEE690 Project 2 Degree. It covers the results and also the progress report continued from the last semester work done. The implementation of an intelligent traffic light control system using fuzzy logic technology which capability of mimicking human intelligent for controlling traffic light. This is to replace and improve the performance of conventional fixed time traffic light control system. The inputs fuzzy variables are quantized constant signals and the output fuzzy variable is the length of time to extend in seconds. Software based on MATLAB has been developed to simulate an isolated traffic junction and implement to the hardware interfacing with using microcontroller PIC16F877A.