

**FINAL YEAR PROJECT REPORT
ADVANCED DIPLOMA IN CIVIL ENGINEERING
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MARA INSTITUTE OF TECHNOLOGY
SHAH ALAM**

**SIGNALISATION OF AN INTERSECTION
(CASE STUDY)**

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SYNOPSIS.

The increasing number of motor vehicles have caused certain intersections which have been previously designed to reach their maximum capacity. Some form of measure must be taken to reduce the problems associated with it and alleviate the frustration of the road users.

This study is based on the technical investigations undertaken to study the traffic flow characteristics, traffic behaviour, traffic composition, turning movements and geometric details at an identified intersection.

It involves the collection of traffic data on an hourly basis at the particular intersection chosen. A proposal on signalization at that intersection is forwarded when it was found that the existing traffic control devices are inadequate to handle the present volume at that particular intersection.

Alternative proposals for improvement of the intersections include some changes of geometric layout. Long term solution suggested involve enlargement of carriageway, provision of channelization islands, slip road as well as construction of a flyover.

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1.0 INTRODUCTION.

Road traffic management at intersections involve the provision of aids to assist and encourage motor vehicle drivers and pedestrians to make the needed decisions in the proper sequence and as quickly and safely as possible.

An intersection is selected as requiring some form of treatment only when it has been recognised as being hazardous and/or causing unreasonable delays to road users.

Although it is realised that it is impossible to produce standard treatments for all the situations that can produce problems at intersections, it is most important that situations which can be identified as being similar are treated in a consistent manner. This is particularly essential when regulatory devices, such as stop signs, traffic signals, etc., are used as part of the treatment. Haphazard or unwarranted use of these device will only cause drivers to doubt the need for the device wherever it is encountered and encourage disrespect.