

LAPURAN PROJEK TAHUN AKHIR  
KURSUS DIPLOMA LANJUTAN KEJURUTERAAN AWAM  
KAJIAN KEJURUTERAAN  
INSTITUT TEKNOLOGI MARA, SHAH ALAM

PARKING CHARACTERISTICS STUDIES  
IN ITM, SHAH ALAM

by

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## SYNOPSIS

Parking facilities is one of the major problems that needs attention in institutions of higher learning. Failure to serve appreciable facilities results in congestion and frustration. However, there are some circumstances unavoidable in having a good terminal facilities. Other than demand, factors such as limited space, cost, landscape, noise etc. influence the overall parking design.

This study attempts to see the parking characteristics of higher learning institutions. The aim is to identify the existing parking problems in campus and propose solution to rectify them. Due to limited time, manpower and money, the study is therefore confined only to Institut Teknologi MARA (ITM), Shah Alam. And few spots in the campus are being left out as they do not depict critical parking problems.

There is a need for this study since there is dissatisfaction with the existing parking scenario. This is verified from the occurrence of illegal parking in the campus. The main reasons for this are presumed to be due to lack of parking space, long walking distances from parking areas and lack of other facilities as well. Under these circumstances, an analysis on the present parking characteristic is therefore necessary. Only then can solutions be proposed in order to cater for the parking needs in ITM Shah Alam campus.

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## 1. INTRODUCTION

Terminal facilities are an integral part of any transportation system, and road transportation is no exception. Traffic is not usually generated for the sake of movement. It travels towards a destination and, having arrived there, the vehicle must be parked whilst some business, whether private, public, recreational, or servicing, is transacted. Failure to supply suitable terminal facilities for the expected and allowable demands results in congestion and frustration. This eventually leads to the decline in importance and value of those areas at present considered most desirable for the day-to-day business of a city and its inhabitants, unless alternative and adequate travel facilities are provided. Generally, increases in vehicle ownership result in increased parking demand. In Malaysia, as in other developed countries, the increase in demand is posing a major problem, for which ready solutions are not available. Without a knowledge of the demands, solutions cannot be proposed.

### **Why the study should be carried out?**

High learning institutions are organizations providing services of a cultural, professional, educational, health or recreational nature. They range in size from small museums to major facilities, such as medical centers, academic schools and sports stadiums. The teaching insti-