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MARA INSTITUTE OF TECHNOLOGY
SHAH ALAM, SELANGOR DARUL EHSAN

NOISE POLLUTION DUE TO TRAFFIC;
CASE STUDY IN ITM SHAH ALAM

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SYNOPSIS

Noise Pollution Due To Traffic; Case Study In ITM is a project to investigate the present noise level due to traffic in the campus and to identify the critical places which caused annoyance or distractions to students and lecturers from concentrating in their work or studies.

There were 3 places had been chosen in carrying out the experiment namely the F block, Accountancy block and Seroja hostels. Field works such as traffic counting was taken at the main entrance to investigate the traffic flow pattern within the campus during the working week days.

Speed-noise relationship can then be determined by conducting an experiment such as recording the speed and noise for each of the vehicles passing simultaneously.

The results were then compared to the Traffic Noise Index, Noise Pollution Level and Regulation which stated the limit of noise permitted. From the analysis and findings of the study, the author recommends ways to remedy the problems and provide the short and long term actions which will benefit all parties directly or indirectly.

1.0 BACKGROUND

MARA Institute of Technology main campus is an educational institution which is situated on high grounds. It covers an area of approximately one hundred and fifty hectares in Shah Alam. It is located about twenty four kilometres from Kuala Lumpur. The total population is shown in table 1 (a). There are 7 hostels namely Perindu, Delima, Anggerik, Seroja, Cempaka, Kenanga and Jati. The road system in the campus is shown in fig. 1.0. The mode of transportation used by the students and staffs can be classified as cars, vans and jeeps, motorcycles, mini buses, conventional buses and manual walking. This breakdown is tabulated in table 1 (b).

Table 1 (a) * Total Population, ITM Shah Alam (1992/1993)

Student		Staff	
Male	Female	Academic	Non-Academic
6402	5622	1427	2314

* Hal Ehwal Pelajar & Bahagian Perkhidmatan

Table 1 (b) * Types and Classification of Users (1992/1993)

Users Types	Student	Academic	Non Academic	ITM vehicles
Motorcycle	1384	604	40	44
Car	1004	2325	92	18
Van & Jeep	21	147	17	7
Pajero	0	0	0	3
Minibus	0	0	0	4
Convent. Bus	0	0	0	10
Lorry	0	0	2	0

* Unit Kenderaan & Unit Keselamatan