

BORANG INVENTORI PROJEK PELAJAR

PERKARA	MAKLUMAT INFORMATION																
Program <i>Program</i>	DKA 5B																
Jabatan <i>Department</i>	DKA																
Semester/ Tahun <i>Semester/ Year</i>	JUNE 2017																
Tajuk Projek <i>Project Title</i>	Road Congestion Study at Jalan Laksamana, Melaka.																
Jenis Projek <i>Type of Project</i>	Penyelidikan																
Kategori Kluster Penyelidikan <i>Category/ research Cluster</i>	Tanda “/” pada yang berkenaan: <i>Please tick “/” where applicable:</i> <table border="1"> <tr><td>☐</td><td>Sains tulen (<i>Pure Science</i>)</td></tr> <tr><td>☐</td><td>Sains gunaan (<i>Applied Science</i>)</td></tr> <tr><td>☒</td><td>/ Teknologi dan kejuruteraan (<i>Technology and Engineering</i>)</td></tr> <tr><td>☐</td><td>Sains kesihatan dan klinikal (<i>Clinical and Health Sciences</i>)</td></tr> <tr><td>☐</td><td>Sains sosial (<i>Social Sciences</i>)</td></tr> <tr><td>☐</td><td>Sastera dan sastera ikhtisas (<i>Arts and Applied Arts</i>)</td></tr> <tr><td>☐</td><td>Warisan alam dan budaya (<i>Natural Sciences and National Heritage</i>)</td></tr> <tr><td>☐</td><td>Teknologi maklumat dan komunikasi (<i>Information and Communication Technology</i>)</td></tr> </table>	☐	Sains tulen (<i>Pure Science</i>)	☐	Sains gunaan (<i>Applied Science</i>)	☒	/ Teknologi dan kejuruteraan (<i>Technology and Engineering</i>)	☐	Sains kesihatan dan klinikal (<i>Clinical and Health Sciences</i>)	☐	Sains sosial (<i>Social Sciences</i>)	☐	Sastera dan sastera ikhtisas (<i>Arts and Applied Arts</i>)	☐	Warisan alam dan budaya (<i>Natural Sciences and National Heritage</i>)	☐	Teknologi maklumat dan komunikasi (<i>Information and Communication Technology</i>)
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Ahli Kumpulan <i>Group member</i>	1. Muhammad Shakirin Bin Mohd Ismayatim 970510045231 2. Muhamad Wafiq Bin Wahab 960226015423																
Penyelia <i>Supervisor</i>	Hjh Asmah Binti Hussain																
Penyelia Bersama <i>Co- Supervisor</i>	Tiada																
Abstrak <i>Abstract</i>	Road congestion is the increase traffic volume at the peak hour on a road with a limited capacity which causes the vehicles to move slowly. This research was conducted to identify the traffic congestion period occur at Jalan Laksamana and to identify the traffic flow in particular time by conducting traffic count. Study shows that peak hour at Jalan Laksamana occur in the morning is at 7am to 8am and happen at 5pm to 6pm in evening. The average vehicles passing the Jalan Laksamana on public holiday is 2751 PCU/hr. Road congestion is caused by tourist cross the road and the car park is on the shoulder edge of the street.																

Keyword <i>Keyword</i> (max 5 word)	Road congestion																
Objektif Projek <i>Project</i> <i>Objectives</i>	a. To identify the traffic congestion periods occurring at Jalan Laksamana. b. To identify the traffic flow in particular time by conducting traffic count.																
Skop Projek <i>Project scope</i>	This study will be held is at Jalan Laksamana to Jalan Merdeka and Jalan Laksamana to Jalan Hang Jebat, Malacca. Conduct the survey by giving questionnaires about time of traffic congestion happen to 250 respondents at Jalan Merdeka to identify traffic congestion periods occurring at Jalan Laksamana. The traffic count will conduct in 6-hour traffic observation with a 10-minute time interval in Merdeka road. Get data from the road user by giving them a questionnaire to identify the consequences because of traffic congestion at Jalan Merdeka.																
IP No																	
Dapatan <i>Finding</i> (500 words <i>max</i>)	4.3.1 Traffic Count Table Cars <table><tr><th>Jalan</th><th>Jalan Laksamana PCU/hr</th><th>Jalan Merdeka PCU/hr</th><th>Jalan Hang Jeba PCU/hr</th></tr><tr><td>1/ 8/ 2017 (Tuesday)</td><td>6233</td><td>4415</td><td>1747</td></tr><tr><td>5/ 8/ 2017 (Saturday)</td><td>6900</td><td>4265</td><td>2747</td></tr><tr><td>2/ 9/ 2017 (Public Holiday)</td><td>8418</td><td>5322</td><td>3438</td></tr></table> Table 4.2 : Table of Cars	Jalan	Jalan Laksamana PCU/hr	Jalan Merdeka PCU/hr	Jalan Hang Jeba PCU/hr	1/ 8/ 2017 (Tuesday)	6233	4415	1747	5/ 8/ 2017 (Saturday)	6900	4265	2747	2/ 9/ 2017 (Public Holiday)	8418	5322	3438
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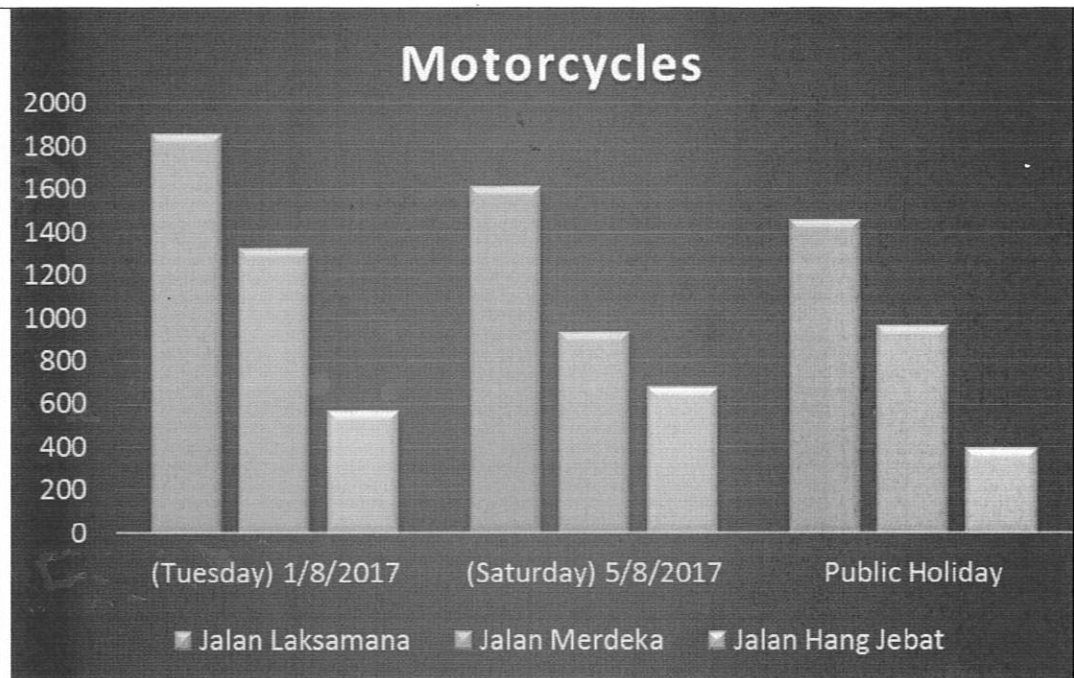


Figure 4.5 : From the graph above shows that the car passing the Jalan Laksamana on public holiday more than any other day, which is about 8418 PCU/hr.

Motorcycles

Jalan	Jalan Laksamana PCU/hr	Jalan Merdeka PCU/hr	Jalan Hang Jeba PCU/hr
1/ 8/ 2017 (Tuesday)	1860	1323	567.75
5/ 8/ 2017 (Saturday)	1614	934.5	680.25
2/ 9/ 2017 (Public Holiday)	1455	964.75	393.3

Table 4.3 : Table of Motorcycles

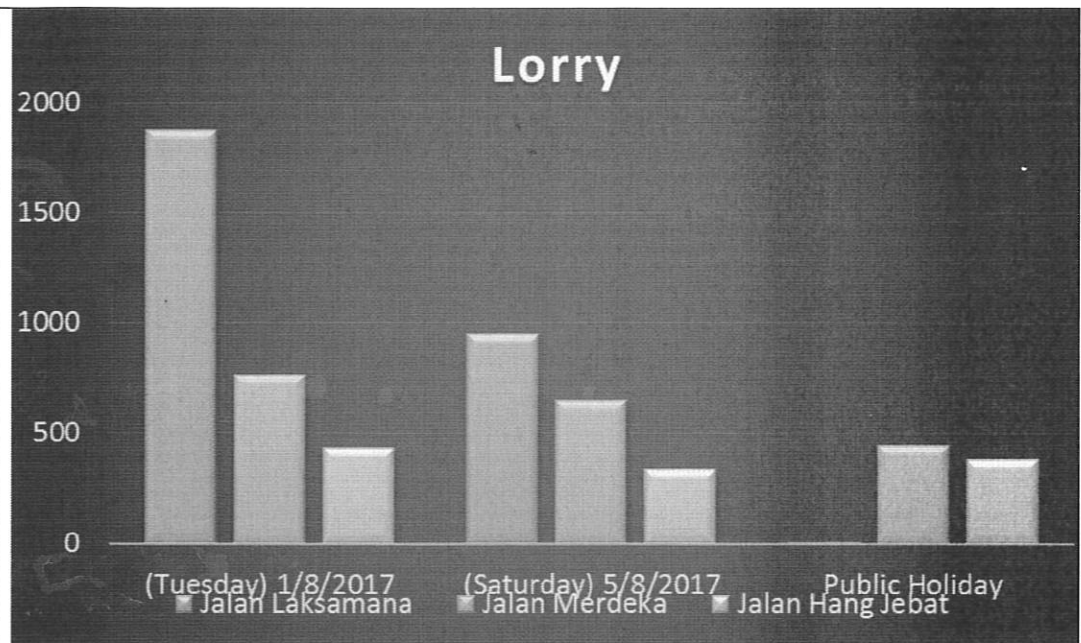


From the graph above shows that the motorcycles passing the Jalan Laksamana on Tuesday more than any other day, which is about 1860 PCU/hr.

Lorry

Jalan	Jalan Laksamana PCU/hr	Jalan Merdeka PCU/hr	Jalan Hang Jebat PCU/hr
1/ 8/ 2017 (Tuesday)	1878	765	435
5/ 8/ 2017 (Saturday)	948	648	339
2/ 9/ 2017 (Public Holiday)	714	444	383

Table 4.4 : Table of Lorry

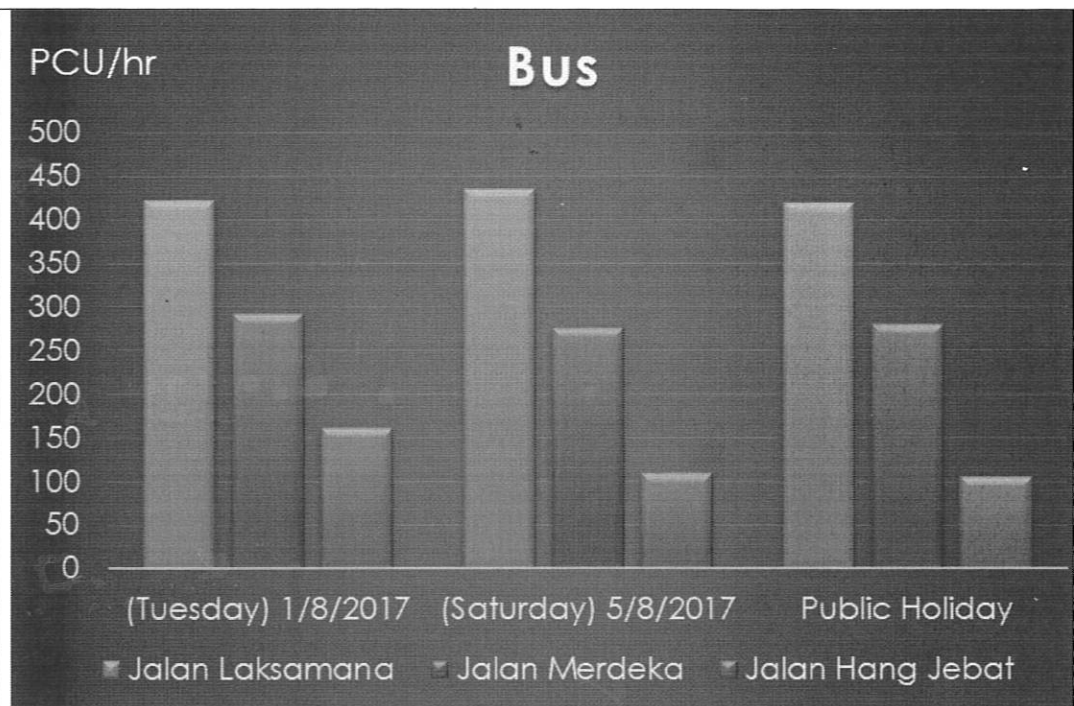


From the graph above shows that the lorry passing the Jalan Laksamana on Tuesday more than any other day, which is about 1878 PCU/hr.

Bus

Jalan	Jalan Laksamana PCU/hr	Jalan Merdeka PCU/hr	Jalan Hang Jebat PCU/hr
1/ 8/ 2017 (Tuesday)	422	292	162
5/ 8/ 2017 (Saturday)	436	276	110
2/ 9/ 2017 (Public Holiday)	420	280	106

Table 4.5 : Table of Bus



From the graph above shows that the bus passing the Jalan Laksamana is almost the same as other days, which is about 422 PCU/hr, 436 PCU/hr, and 420 PCU/hr.

Cadangan untuk kerja-kerja akan datang
Suggestion for future work (500 words)

Road users need to practice car sharing. Today's technological advances, there are applications like Uber and Grabcar, where it carpool concept (car sharing). This can reduce the number of vehicles like cars. To overcome the traffic congestion, the parties need to create a multi-storey parking lot like in Terengganu. It can reduce space to build roads. Furthermore, it can accommodate the number of vehicles in multi-storey parking.

Gambar berkaitan projek

Picture related to project (700kb)

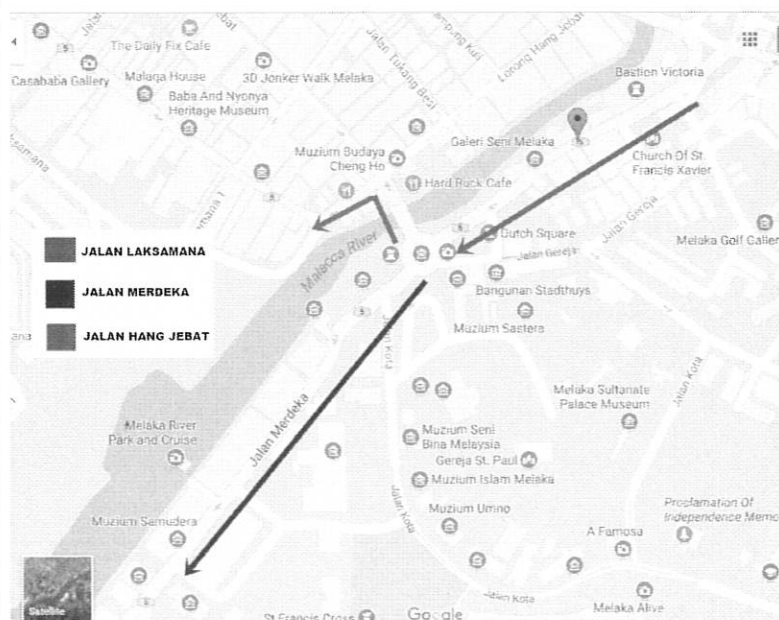


Figure 2

	<i>Figure 1</i>	
Rating/Level	Jabatan Departments	

* Borang ini perlu diisi oleh pelajar dan dihantar kepada penyelia/ penyelarar projek dalam bentuk hardcopy dan softcopy (borang LAMPIRAN J dan gambar hasil projek dalam format jpeg/bitmap) bersama laporan akhir dan hasil projek.