ANALYSIS OF TRIP GENERATION 
AND ATTRACTION MODEL IN MOJOROTOS PEOPLES KEDIRI

By : Dyan Widyastanto  3102100013
Department : Civil Engineering FTSP ITS
Supervisor : Ir. Dudung Purwadi, MSc
             Ir. Wahju Herijanto, MT

Abstract
The development in Mojoroto - part of Kediri city - can economic and prosperity growth. On the other hand this development can decrease the productifity, decrease of city character and decrease environment capability. The development in Mojoroto city was increasing fastly, expecially in trading, public service, housing and industry.

The target of this final test was to knew the number of trip generation and attraction peoples in Mojoroto, where the zone distribution was came to the villages in Mojoroto. Writing this final test was started with problem identification, study of literature, and than gathering of dates that have effect to the number of trip generation and attraction. All of date were secunder date that got from believable information, and then the secunder dates were analysed.

In the final test was studying about trip generation and attraction model that analysed by using linear regression metode or multiple linear regression metode by using SPSS program Version of 15.0, and trip characteristic.

Trip generation model influenced by population, the number of worker, owner of carrage, income and the zone distance to center of attraction. Because that, it was analysed by multiple linear regression metode and it got model function was: 

\[ Y_b = 7908.683 + 2.852355 \times 10^{-6} X4 + 0.033 X7 \]  with \( R^2 = 0.317 \).

Where the number of family’s total average income per month/zone (X4), the real distance of zones in Mojoroto with
Gudang Garam factory (X7). And trip attraction model influenced by land use function. It got model function was: \( Y_t = 15357 + 0.325 \times X_9 \) with \( R^2 = 0.329 \), where wide of healthy facility (X9).

And the number of trip generation in planning year (2012) to each zones were: zone 1: 21067 trips; zone 2: 17128 trips; zone 3: 20627 trips; zone 4: 16006 trips; zone 5: 16034 trips; zone 6: 20196 trips. And the number of attraction trip in planning year (2012) to each zone were: zone 1: 21174 trips; zone 2: 17750 trips; zone 3: 25370 trips; zone 4: 21042 trips; zone 5: 16060 trips; zone 6: 18977 trips.

Keyword: Trip generation, trip attraction, land use.