PERFORMANCE EVALUATION OF LYN X SURABAYA JOYOOBOYO – TAMBAK SAWAH

Name                : Adya Aghastya
NRP                  : 3109 040 508
Program           : DIV Civil Engineering FTSP - ITS
Adv. Lectures : Ir. Wahyu Herijanto, MT

Abstrack

Passengers movement from residential area to the city’s activities centre should be supported by adequate transportation mode and infrastructure. These mobilities can influence many activities such as education, trading, and others. The supply of the urban public transportation is depend on destination while the capacity depend on the passengers movement.

The furial project aims is to analyze existing passenger movement and producing existing Origin Destination Matrix is the base to forecast 2015 Origin Destination Matrix (ODM), by using Furness method. Surveys have been conducted including ODM survey and passanger occupancy survey, which is done for 06.00 to 18.00. The Origin Destination is assigned and compiled as volume of the performance analyze.

Analysis calcilation of Lyn X Joyoboyo-Tambak Sawah which conducted for get result of that requirement of city’s transportation at 2010. The result is by using 11 passanger vehicle capacity and load factor average is 0,15, headway needed 14 minute, and the fleets needed is 16 cars. For 2015, headway needed is 15 minute, load factor average is 0,13, and the fleets needed is 16 cars. This is far lesss than the existing fleets of 72 cars. This performance of city’s transportation pursuant to situation of existing projected in 2015.