TRIP DISTRIBUTION IN UiTM SHAH ALAM
2006

By

ROSNIZA BINTI ABDUL JALIL

Report is submitted as
the requirement for the degree of
Bachelor Engineering (Hons) (Civil)

UNIVERSITI TEKNOLOGI MARA
2006

DECLARATION

I Rosniza Bt Abdul Jalil (2004218044) confirm that the work is my own and that appropriate credit has been given where reference has been made to the works of others.

(_____)

Date: 17th November 2006

ACKNOWLEDGEMENT

In the name of Allah, The Most Gracious and Most Merciful.

I would like to acknowledge with deepest gratitude and appreciation to my supervisor, Miss Tey Li Sian for her advice and guidance throughout the duration of this study.

Special thanks to all the lecturers of Faculty Civil Engineering and not forgetting the laboratory assistant for their kindness and guidance in the preparation and accomplishment of this study. Besides that, I would like to express my thankful to the persons who was helped me to gain all the information regarding to this study.

Finally, I would like to express my deepest gratitude and love towards my beloved family and fellow friends for their support and prayers. To those who were involved directly and indirectly in this study, thank you all the way.

ABSTRACT

Forecasting travel demand is the "four step process" of trip generation, trip distribution, modal choice and traffic assignment. Trip generation is the process of determining the number of trips that will begin or end in each zone within a study area. Trip distribution defined as a process by which the trips generated in zone are allocated to other zone in the study area. Mode choice is the aspect of demand analysis process that determines the number (or percentage) of trips between zone that are made by automobile and by transit. Traffic assignment is to determine the actual street and highway routes that will be used and the number of automobiles and buses that can be expected on each highway segment. There are many factors influence travel demand: the location and intensity of land use, the socioeconomic characteristics of people living in the area, cost and quality of available transportation services (Garber and Hoel, 2002). The trip distribution is important in planning of future development in certain study area. There are two methods of conducting data collection: field survey and questionnaire. The trip distribution is determined from traffic volume counts. Then, the correlation between trip distribution with vehicle ownership, population of staffs and students and gross floor area is analyzed. All the factors are influenced the trip distribution in UiTM.

TABLE OF CONTENTS

iii