

Majmaah University, Kingdom of Saudi Arabia
College of Engineering
Department of **Architecture and Interior Design Engineering**
Interior Design Engineering Program

Title

Submitted as a part of the Senior Design requirements to get a B.SC. Degree
in **Interior Design Engineering** from Majmaah University, KSA

Presented By

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December 2025

Majmaah University, Kingdom of Saudi Arabia
College of Engineering
Department of **Architecture and Interior Design Engineering**
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Approval Sheet

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A Report

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Date of discussion: 11 /12/2025

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Supervisor(s) committee	Signature
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ABSTRACT

Text

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KEYWORDS

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المخلص العربي

على الصعيد العالمي، تُلفت عملية التحضر الهائلة انتباهنا إلى التحديات التي تواجهها المدن نتيجةً للكثافة السكانية العالية، والأنظمة المعتمدة على السيارات، والازدحام المروري، وغيرها من التحديات المرتبطة بالتطور الحضري السريع.

ACKNOWLEDGMENTS

First and foremost, I thank almighty ALLAH, the Most Glorious and Most Compassionate, for Helping me and Giving me the Strength to accomplish this work.

I would like to express all of my deepest recognition and sincere appreciation to
.....

DECLARATION

We hereby declare that our report is entirely our work and genuine. We declare that no part of the work referred to in this report has been submitted in support of an application for another degree or qualification from this or any other University or other institution of learning.

The students:

Signature

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TABLE OF CONTENTS

Note: The Table of Contents should be dynamic and linked to the document's headings. Use the standard Heading styles and update the Table of Contents after any changes. Refer to the uploaded tutorial "Thesis formatting Video" for instructions.

Abstract.....	I
Arabic Abstract.....	III
Acknowledgments	V
Declaration.....	VII
Publications	IX
Table of contents	XI
List of Tables	XV
List of Figures.....	XVII
List of Acronyms	XIX

Chapter 1: Introduction 01-07

1.1 Background.....	01
1.2 Problem Definition and Research Gap.....	02
1.3 Research Questions	03
1.4 Research Aims and Objectives	03
1.5 Research Structure	05

Chapter 2: Transit Oriented-Development (Tod): The Promising Planning Concept ..09

2.1 Introduction.....	09
2.2 Transit-Oriented Development (TOD): Concept and Rationale	10
2.2.1 Originated Concept	11
2.2.2 The definition of TOD	12
2.2.3 Generally defined features and principles.....	13
2.2.4 TODs Design and Assessment Scales.....	15
2.3 TODs in terms of land coverage and threshold values	19
2.4 The implementation of TOD.....	22
2.4.1 The TOD process	22
2.4.1.1 Stakeholders and the TOD implementation.....	23
2.4.2 Barriers influence the TOD implementation.....	25
2.5 Summary	26

Chapter 3: Measuring Transit-Oriented Development (TOD) Levels 27-49

3.1 Introduction.....	27
3.2 TOD measurement: The assessment criteria and indicators	27
3.2.1 Qualitative TOD measurement.....	28
3.2.2 Quantitative TOD measurement.....	28
3.3 Interconnected components of TOD, built environment, and TOD levels	33
3.3.1 Urban Density.....	33

3.3.2 Urban Diversity	33
3.3.3 Urban Design	33
3.3.4 Economic development	34
3.4 Applied methods and tools: A systematic Review.....	36
3.4.1 Search strategy.....	38
3.4.2 Literature identification	38
3.4.3 Selection of eligible literature: Inclusion/exclusion criteria.....	39
3.4.4 Search results and selection procedure	39
3.4.5 Review analysis and discussion.....	40
3.4.5.1 Descriptive analysis	40
3.4.5.2 Content analysis and Discussion	44
3.4.5.3 The studies' framework of analysis.....	45
3.4.5.4 Critical assessment of discussed methodologies	46
3.5 Synthesis	48
Chapter 4: The Applied Methodology: The Case of Alexandria City	51-73
4.1 Introduction.....	51
4.2 The study area: Alexandria city	51
4.2.1 Geographic location and urban patterns.....	51
4.2.2 The transport network	54
4.2.3 The transport mode included in the study	55
4.3 The adopted framework: A five-stage modelling approach.....	56
4.3.1 The framework description.....	56
4.3.1.1 Standardization of indicators	66
4.3.1.2 Weighting the indicators.....	66
4.3.1.3 Computing the composite TOD index.....	67
4.3.1.4 Sensitivity analysis	68
Chapter 5: Conclusion and Recommendations.....	103-113
5.1 Introduction	103
5.2 Research Findings.....	104
5.3 Recommendations and Directions on Further Research.....	109
List of References.....	115-120
Appendices	121-139
Appendix A.....	121
Appendix B.....	123

LIST OF TABLES

Chapter 2

Table 2.1: Definitions (descriptions) of TOD according to authors.....	12
Table 2.2: The TOD neighborhood common features according to many investigations.....	14
Table 2.3: Examples of distance-boundary definitions based on different TOD ordinances.	16

Chapter 3

Table 3.1: TOD essential and supportive indicators suggested by Evans et al., 2007.	30
Table 3.2: Top ten indicators for measuring TOD based on transport professionals' survey results.	30
Table 3.3: The measuring indicators of potential and actual TOD indices.	32
Table 3.4: The linkage between the basic TOD indicators and TOD levels.	34
Table 3.5: Keywords used in guiding the systematic review and the literature search.	38

Chapter 4

Table 4.1: Adopted list of criteria and indicators to measure the potential TOD index for the current study.....	59
Table 4.2: The main corridors where the local buses operate	60
Table 4.3: Data used with their respective year, formats, and sources.....	61
Table 4.4: Pre-processing procedures followed for some indicators.....	62

Chapter 5

Table 5.1: The descriptive statistics of the TOD index values distributed among the districts.	85
Table 5.2: Examples of some of the potentially high TOD areas across Alexandria city	90
Table 5.3: The statistically significant high potential TOD areas across Alexandria city. ...	96

Chapter 6

Table 6.1: The outcome of the two main phases of the research.....	103
Table 6.2: The research intention and scope serving the application phase.....	106

LIST OF FIGURES

Chapter 1

Figure 1.1: The figure shows the study approaches of TOD and defines the scope of the current research (highlighted in red)02

Figure 1.2: The framework of the research structure. The yellow highlights indicate the outcome of chapters07

Chapter 2

Figure 2.1: The main points highlighted in this chapter.....09

Figure 2.2: The land-use transport feedback cycle.....10

Figure 2.3: The connection between TOD and SUD.....13

Figure 2.4: The types of spatial areas (shed levels) covered by transit area of influence.15

Chapter 3

Figure 3.1: Synthesizing the researchers' perspectives on TOD, their criteria, and indicator29

Figure 3.2: The schematic procedure of typical SMCA process.....31

Chapter 4

Figure 4.1: On the left: the study area boundary and the administrative division as delineated by GOPP.52

Figure 4.2: The urban patterns in Alexandria city.....53

Figure 4.3: Alexandria main transport network.....54

Chapter 5

Figure 5.1. Residential density map75

Figure 5.2. Population density map (standardized map)76

Figure 5.3. (a) Floor Area Ratio (FAR) and (b) Building Coverage Ratio (BCR) maps77

Figure 5.4. The commercial and services density map.....79

Chapter 6

Figure 6.1: The satellite image illustrate some examples of the detected hotspots.88

LIST OF ACRONYMS

APTA	Alexandria Passengers Transportation Authority
AHP	Analytic Hierarchic Process
BRT	Bus Rapid Transit
CA	Catchment Area
CAPMAS	Central Agency for Public Mobilization and Statistics
COD	Car-Oriented Development
DSS	Decision-Support System
Fuzzy-AHP	Fuzzy Analytic Hierarchic Process
Fuzzy-ANP	Fuzzy Analytic Network Process

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CHAPTER

1

Introduction

Note: Beneath the chapter title, include a short paragraph that clearly highlights what the chapter presents or introduces, its scope, aims, and main components.

This chapter introduces the research problem, justifies the study purpose, describes the research aim, objectives, questions, and methodology. Finally, it ends with a conceptual framework of the research.

Chapter 1: Introduction

1.1 Background

Over the past decades, cities have been facing rapid urbanization as a result of rapid population growth. The threatening phenomena of rapid urbanization continue to take place at a much rapid pace causing enormous challenges related to the city streets and their transportation system. Moreover, the spatial distribution of land uses and travel demand caused by the distribution of activities are influenced by the urbanization process. As a result, urban mobility issues have grown in tandem with urbanization, resulting in clear detrimental effects on the environment, social, and economic levels (Aoun, 2014; Ibrahim et al., 2017).

1.2 Problem Definition and Research Gap

In a growing number of countries, a shift toward more sustainable practices is implemented widely and as a result, variations in decision processes related to transport projects have appeared. Recent literature has opened the door to further investigation of methods and models' development, which can bridge the gap between the planning decisions and practical application.

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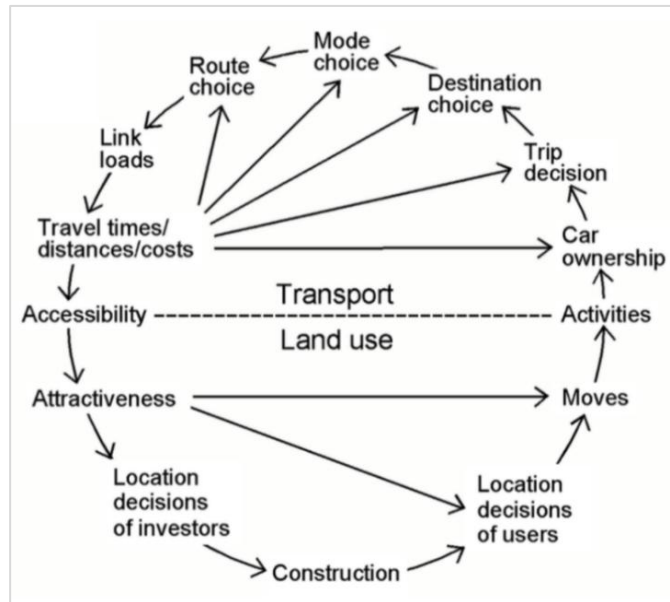


Figure 0.1: The land-use transport feedback cycle.
Source: (Banister, 2010)

Table 0.1: TOD essential and supportive indicators. Source: the authors after (Singh, 2015).

	Essential Indicators		Supportive Indicators
1	Centrally located transit	1	Street widths and driveways
2	Pedestrian priority	2	Roadway access
3	High-quality transit	3	Housing types
4	Mix of uses	4	Car sharing
5	Supportive density	5	Transit support
6	Parking management.		

And soon on for all chapters