



جامعة الاسكندرية
كلية الفنون الجميلة
قسم ديكور
شعبة العمارة الداخلية

التصميم الداخلي لمحطات الحافلات

”دراسة تطبيقية علي الموقف الجديد بمنطقة محرم بك بالاسكندرية“

The interior Design of the Bus Terminals

“ An Applied Study of Muharam Beik bus terminal in Alexandria”

رسالة مقدمة لنيل درجة الدكتوراة في الفنون الجميلة

قسم الديكور- شعبة العمارة الداخلية

مقدمة من الدراسة:

أيه حسن محمد يوسف عفيفي

المدرس المساعد – بجامعة فاروس - كلية الفنون و التصميم

اشراف

أ.د/ عبد الحميد عبد المالك علي

استاذ متفرغ بقسم الديكور استاذ العمارة الداخلية

بكلية الفنون الجميلة - جامعة الاسكندرية

أ.د/ محمود حسن الملاح

أستاذ المتفرغ بقسم الديكور استاذ العمارة الداخلية

بكلية الفنون الجميلة - جامعة الاسكندرية

2019

Passenger transport stations are the central nucleus for the development of the community, and the place for transporting passengers from one place to another by means of various transport. Bus stations are especially important. Bus stations are defined as the city's bus parking area, which gives the bus movement freely, to stop and raise the passenger in, and descend them easily and safely. Bus stations in general may face many problems that have negatively impacted transport efficiency. It is necessary to provide and achieve an internal and external environment that is successful in all aspects of design, which working on the comfort of passengers and users.

Chapter 1: The philosophy of interior design of bus stations:

- The Chapter deals with the concept of transport, importance and types of transport, especially Road transports, in addition to the problems of passenger terminals.
- Explains the vocabulary of the main and secondary design requirements in the passenger terminals.
- What are sustainable transport and its requirements :
 - Environmental
 - Economic
 - Social
- Dimensions of sustainability in transport stations.
- Requirements for uses and operations in modern passenger terminals.
- Implementation of sustainability in the internal design steps and the functional planning of transport stations.
- The Basics and the application of sustainable design in the elements of interior design for transport stations, in terms of:
 - 1- Internal lighting quality.
 - 2 - Control lighting.
 3. Reduce audio pollution.
 4. The quality of the internal environment.
 - 5 - Materials and elements of furnishing
 - 6 - Control the internal temperature.
- Bus stations, and the intellectual philosophy that affects the determination of the standards of interior design.
- The main objectives of the design of the stations.
- Considerations and factors that contribute to the planning and design of the good bus stations and the comfort of passengers.
- The design and planning perspective of the station. Factors that contribute to the work of a good design of the station, in terms of:
 - The movement, its determinants and its relation to man.
 - Specific pathways of directions between spreads.
 - The relationship of movement paths with spaces - the form of movement in the corridors.
- Characteristics of the traffic paths within the station, the motor capacity and its amplitude, and traffic flow and protection stations.
- Good design for the planning of bus station spaces and protection from accumulations.

Chapter Two: The main principles and criteria for planning travel sites and access to bus stations:

- The chapter addresses the specific factors and the main axes of the internal and external environment of bus stations.
- In terms of: design process factors, design needs and requirements, through:
 - * Functional factor.
 - * The aesthetic factor.
 - * The utilitarian factor.
- Explains the factors affecting the general design of the external structure of the bus station, in terms of rigidity, diversity and regularity, and the degree of simplicity and complexity.
- Understanding the principles and foundations of the interior design of bus stations, through: the foundations of general design, which address:
 - * Unity and diversity. *Symmetry and balance. * Emphasis and repetition.
 - * Scale, proportions and proportionality. * The rhythm. * Frequency.
 - *Abstraction. *Modernity.
- The interior architecture solutions for the dimensions of the interior Space, which deals with:
 - * Power. * Flexibility in design and construction. * The default operating time.
- Internal architectural treatments for the limits of internal bus stations from:
 - Flooring.
 - Walls.
 - Ceiling.
- Technical and construction equipment for interior design of bus stations. These include:
 - Lighting and its role in meeting the needs of bus stations,
 - Adaptive systems, air distribution and heating systems.
 - Insulation systems for bus stations (thermal - acoustic - humidity)
- Emergency preparedness.

Chapter 3: The internal planning of bus stations and their components.

The chapter deals with the Basics of the architectural and interior design of the main components of the station:

- Entrance. - Exits - Escape doors.
- Entrance hall. - Ticket lounge.
- Waiting places.
- Passenger lounge. (Cafes, Restaurants).
- Staff rooms at the station. - Administrative offices. - Security offices.
- Waiting platforms
- Washrooms.
- Sales outlets or shops in the station.
- The worshiper.
- Vertical contact elements: (normal and electrical stairs - elevators)
- Signboards and display information at stations.

Chapter4: Modern design thought and the impact of technological development on bus stations.

- The chapter deals with the role of technological design thought in solving design problems.
- The effects of technological revolution on the internal space of bus stations.
- The effects of technological revolution on the External Shape of bus stations.
- **Architectural trends and movements:**
 - Parametric architecture.
 - Topological architecture.
 - Bio morphology.
 - Organic Architecture.
 - Hybrid architecture.
 - Standard architecture.
 - Origami architecture.
 - Liquid architecture.
 - The direction of genetic architecture.
- Materials technology and contemporary interior design for bus stations in terms of:
 - Design characteristics of the material.
 - Technical characteristics of the material.
 - Operational characteristics of the material.
- The clarification of some materials with modern technologies that enable the interior designer to implement the most complex designs that was impossible to implement using traditional methods.

Chapter 5: The applied model for the rehabilitation of the interior design of the bus station (the new position in Moharrem Bey in Alexandria).

- The chapter deals with An overview of the new situation in Moharrem Bek area of Alexandria and its origins and developments.
- Considerations necessary to achieve a good design of the new position logic Moharrem Bey in Alexandria.
 - Specific factors for the analysis of the human environment and its design in the process of coordination of the site.
- The work of a questionnaire clarifying whether Hawarina Company succeeded in developing the new Moharrem Bek bus Terminal in Alexandria through the satisfaction of the users of the new position.
- starting Steps of redesigning the new Moharrem Bek bus Terminal in Alexandria.
- Planning the horizontal projection and interior design of the station and proposals and application of the foundations and standards mentioned in the previous chapters to clarify the stages of renewal and development of the new position.