



Research Abstract

Pointing what we
have studied
in this thesis



In the last three decades, interior architecture was invested to raise the human & spiritual meaning of the interior space to reach to the highest contents of expression of designers' creations and to present interior environments to match with cultural & intellectual developments of individuals and communities. By the beginning of the twentieth century, interior design became an intensive field for tests and experience of technologies specifically intersection of philosophical & social & environmental and even economical specialties . The architectural interior design is an expression of the cultural principles and social concepts and technical skills .

The interior architecture is an interior designing process , it is a language of transformation or abbreviation performed by decreasing abstract ideas from concepts or symbols or programs and compacting them to prepare identical form & space & details and materials which went beyond a wider fields . In this century, the ambition of the designer is based on investing all his scientific & practical and meditative potentials, in addition to his mental and cognitive abilities to make the design easeful to soul to reach to the sensory pleasure which is symbolized by ecstasy and appreciation, then response, the thing that means to reach to space integration functionally and aesthetically which is represented by conscience and feelings .

The researchers confirm that successful design can be achieved by linking fantasy with reality, where fantasy is a cognitive mental power represented by: perception, thinking, recognition and visualization, all what we call (cognitive perception) , while reality is represented by tangible and concrete thing and perceived sensually and cognitively, it depends on the physical materials existent in the internal space and all details of the surrounding environment (sizes, surfaces, colors, lighting , etc....).

When we control environment by design, we will manage to achieve positive human interaction and provide physical control to space (physical control) by four procedures of the designing work:

-to achieve the optimal functional frame by fulfilling minimum level of the required functions within the interior spaces .

-to formulate the social context through embodiment and determination of the range of human and social interaction .

-to maintain cultural symbolization .

-to determine the human values and out of which to determine symbolic systems .

In the frame of administrative buildings which are recently developed greatly, new thoughtful orientations are proposed which allow to use very modern articles and techniques which release the interior architecture from its formal traditional vocabulary as well as allow investing various experiences of other specialties .

In theoretical frame there is insufficiency of the impact of senses and cognitive perception on interior design of administrative spaces which is able to identify build the phenomena in integral form and illustrate its psychological & personal and subjective (implicit) domains to reach to interior spaces integrated functionally and aesthetically ,which emphasizes the concept of raising and fulfilling productivity level in highest level .

The concept of integration may be considered very important mechanism to help designers in creation of interior architecture , this can be achieved by considering the importance of sense in designing process and then interaction which is based on cognition and stimulation of special senses by the users, one way of integration fulfillment is to use computer , as it became new tool in designing process which may help in providing alternatives for the designing decision and its development .

This research is divided to three chapters : the first chapter is under the title (**Interior architecture & senses and cognitive perception**) which contained three sections which are respectively: The first section under the title (Concept of interior space and its relation with senses and cognitive perception), the second section under the title (**Perception and mental images in interior architecture**), and the third section under the title (Sensation and perception in interior space) .

The first section of this chapter under the title (Concept of interior space and its relation with senses and cognitive perception) introduced first identification of mental cognitive operations nature, and an attempt to understand their basic rules , as in (sensation , attention, perception, recognition, thinking ,etc...), in the second part we

concentrate on the study of perception and impact of various cultural and environmental experiences (interior space) on images and mental schemes construction.

The second section of the first chapter under the title (Perception and mental images in interior architecture) presents : this section deals with the availability of the necessary cognitive background reaching to more comprehensive concept of senses functions , cognitive perception to create and design interior spaces that are integrated functionally and aesthetically depending based on proposing different points of view in addition to explaining their characteristics & the associated architectural and behavioral concepts as an attempt to establish a clear objective theoretical rule upon which research main axles are based .

In the third section of first chapter under the title (sensation and perception in the interior space), discussions was focused on browsing perception and its basic associated concepts based on number of previous precious architectural and psychological proposals , most important findings of architectural spaces which are directly connected to senses were concluded and confirmed , the thing that helped the researcher to conclude the most important characteristics of senses and reach to more comprehensive understanding of the phenomena and benefit from the theoretical and research efforts that are specialized in architectural psychology and behavioral sciences with (perception of structured environment) by describing the phenomena of the sensual perception as mainly perceptual task , for the purpose of building theoretical information base which provides sufficient principles to build comprehensive theoretical frame for senses theory and cognitive perception and its effect in interior design .

While the second chapter was under the title (Perceptual theories in interior architecture), it contained two sections respectively: the first section under the title (**Perceptual theories and their concepts**), the second section under the title (**Integration and integrity in interior architecture**).

The first section of this chapter under the title (Perceptual theories and their concepts) focused on two main axles, **the first axle** : explanation & interpretation and discussion of intellectual studies and

the main perceptual theories, interpretation of environmental perception included phenomenology theory, behaviorism theory, empirical theory, environmental theory of perception, direct perception theory (sample of stimuli, response), Gestalt Theory .

The **second axle** discussed large group of architectural and psychological studies and opinions which dealt with **senses & sensory perception** and environment which is built in architecture and interior architecture with explanation and materialization of the most important concepts and vocabulary used by the researchers of environmental designing and which are placed by behaviorists who are specialists in different fields.

The second section of the first chapter under the title : (**Integration and integrity in interior architecture**) discuss that the integral relation between technology and architecture can be fulfilled in all architectural levels through approving different orientations which are beyond architecture possibilities. Whereas the use of technology by architects which emerged and represented an increasing shift shall affect the future of the architectural productivity and it shall work on to re-establish it .

The third chapter under the title: (**Interior architecture in administrative building and researcher experiment**) explained such relation in three sections respectively : the first section under the title : (**Contemporary administrative buildings and their relation with senses and cognitive perception**) , and the second section under the title (**International and local principles of interior architecture for administrative buildings**) , the third section under the title (**Researcher experience/ results and recommendations**) .

The first section of this chapter under the title (Contemporary administrative buildings and their relation with senses and cognitive perception) presented analytical study of research samples which represents creative vision goes beyond designing work through aesthetic fulfillment , the designer duty is to make the work reach to valuable system which enables the community to allow the designer to find such vision which is fulfilled by applying integrity idea . Also the forms explained the possibility of classifying the vocabulary of interior architecture to thoughts of elements and relations able to be integrated on the level of interior architecture

The second section of the first chapter under the title **(International and local principles of interior architecture design for administrative buildings)**, discussed designing characteristics and elements which contribute to fulfill integrated interior environment , and to focus on the role of senses in the interior environment of the administrative buildings which application shall have its psychological effect and active role in achieving the previous orientations specifically in order to provide functional satisfaction to the user of administrative space , then to increase performance qualification and to enforce sense of belonging.

In the third section of the first chapter under the title of **(Researcher experience / results and recommendations)**, based on the data of surveys and the acquired experiences from the theoretical study in the thesis , a re-study is carried out to the internal hall of the building of the real estate affairs department in Damascus, this study depended on providing job spaces which achieves concentration on applying new desk solutions and modern methods in job , hence start point is always persons and the nature of their job .

Finally, results and recommendations concluded by this research are available beside list of research sources and references including Arabic and foreign references in addition to a sufficient summary in Arabic and English language at the end of the research .