DESIGNING ARCHITECTURAL PROCEDURE FOR HOUSE PARTICULARLY FOR CHILDREN

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ABSTRACT

Children cortical most important for future prosperity and social dynamics that make up the country. Architectural design Successful environment for children requires taking into account the criteria and Indexes particular, this class is special. In the present study focuses on increasing creativity children tried to theoretical studies in the field architectural design children will be achieved. The goal of this research architectural design Social and institutional focus as children house in the event of increasing creativity children. Architectural design process that uses two physical planning and architecture architectural design takes place hence in the physical planning architecture, design body design diagrams and charts to design, specify the required spaces, layout and communication spaces, diversity and quality of space, flexibility and fluidity of space and form design, it is predicted, then step architectural design Takes place, in this study the process architectural design for children there will be a special home, descriptive and analytical methodology for collecting data library method is then based on the analysis of information and related charts are plotted diagram based on the conducted analysis and alternatives based on the factors affecting the architectural design Special children's home has been suggested that in line with the idea architectural designing format of architectural design Special children's homes, alternative and superior architectural design ideas will be selected. The results can be child-centered design or architectural design that most users of space, children are utilized.

Keywords: *architecture fabric, architectural design, children house, increasing creativity*

INTRODUCTION

In today's cities, with little reflection on human settlement environment and especially children due to the fact that the time has come for children's attention and emphasis on architecture. Architectural ideas and new designs should be able to meet the needs of today's children is physically spirit. Evidence-based research to support the development of creative skills develop in children and adolescents, flexible use of space and time, the availability of suitable materials, activities outside the classroom, it seems logical game based on independence (Davies, Collier 2013) research indicated that children's creativity "will depend on the strength of their imagination," imagination is the most important factor in promoting children's creativity (Shafaei and Madani, 2010). In terms of Sigmund Freud should be a source of creativity in childhood experiences it is therefore necessary to find a person in the early stages of child development, fosters creativity he considered (Noghrekar et al., 2009). Creativity is the interaction between talents. Creativity with a focus on the environment, this axis as the most important factor is the formation of creative ideas. (Bisadi, Hosseini, 2012) in recent years in the field of creativity of children and students does a lot of research in the field of emotional-cognitive and educational issues. Unfortunately in the field of architecture and the role of architectural space less attention has been paid in

nurturing creativity (Mahdavinezhad and Silvayeh, 2013). With regard to the process of learning in early childhood, playing the best communications natural environment is the best place of learning for children.

Recognizes the child's talent and creativity increases his potential. (Faizi, Karimi, Azari, 2012) With regard to growth, activation, promotion of creativity in children is very important. In order to improve creativity, some ways of encouraging children's minds to new thinking and develop creativity. One of these methods, the impact of natural or synthetic environments for children is increasing creativity (Acar, 2014) without a doubt, any development that occurs in contemporary art to artistic phenomena can say that art is essentially the same as creativity. The emergence of artistic creativity as creativity in other fields of science and education need help and involvement of some subjective and dependent on environmental factors. architectural design process considering the circumstances of architectural design in mind, the conditions and the architectural design of its own needs, in the process of architectural design is the same with respect to the project architectural design to suit to be asked employers and purpose and idea of architecture , items of categories and priorities, and then consider conditions such as climate, architectural design to architectural design, site design and texture desired area, access to him architectural design project takes place determined to architectural design goals, ways to achieve these objectives design comes in pre-measured and evaluated welcomed the plan, after the operation of the scheme takes place, the strengths and weaknesses plan No anticipated and checked up after the project architecture, the weaknesses of the design minimized, architectural design, especially children need to know the child and the child's use of space in architectural design and children spaces for children with attention to the child's size, scale and children's furniture, attractive and inviting spaces for children takes place.

Date	Author	Title	Conclusion
1993	Tourense ,Translated by Hassan Ghasemzadeh	They nurture creative talents and skills, and ways	Knowledge and understanding of how to develop their talents - Movers creativity - creativity growth from an early age
1997	Translated by Nematollah Yarahmadi	Behavior (building and guiding children up to 10 years old). Leading Publications	Understand the characteristics of the dominant character in their childhood and childhood to the age of 10 years takes place
2010	Minu Shafaei, Ramin Madani	Design principles of educational facilities based on creativity, Journal of Technology Education, fourth, Volume 4, Issue 3, Spring 2010	- Physical environmental design of educational facilities based on the creativity - In Considering the factors stimulating creativity in the design space
2013	Mahdavinejad, GH, Siluayh Sonia	The impact of the arts on student creativity, innovation training Quarterly, Issue 48, Winter 2014	- Creativity with a focus on creative person - creativity with a focus on creative mental process with a focus on the environment creative creativity-focused operation with a focus on the environment as the most important factor is the formation of creative ideas.

2000	Perkins, broad Ford.	Type and quality of the building for secondary school ¹	- Designed to take advantage of its functional structure in accordance with its function of building fabric
2012	Rabia Cigdem Cavdar.	The Impact of Architectural Education on Children	Training & educational architecture as a design always encourages creativity
2013	Habibe Acar.	Learning Environments for Children in Outdoor Spaces	- Open spaces and routes and curiosity for children movement of the actuator movement in open spaces to explore surroundings surroundings experienced -child learns deals
2013	Dan Davies, Divya Jindal-Snape, Chris Collier	Thinking skills and creativity	Creating profit and applying creative thinking, creative thinking and creative direct -rank
2013	Faizi, Karimi, Azari	Of residential space designed to promote children's creativity (designing creative Pedagogies through the use of ICT in secondary education)	- Use natural herbs to stimulate creativity in residential areas -Use of light to stimulate creativity -use of color as creative agents

BACKGROUND ON RESEARCH THEORIES

SOME BACKGROUND RESEARCH THEORY:

Source table according to sources cited by the author

SOME OF THE RECORDS OF ARCHITECTURAL DESIGN:

Table 2.1. Examples of architecture museums and centers of children's creativity

Date	Name architect	City / Country	Architectural documents	Points to consider
2007-2006	24H> architecture	Mountain fertilizer island in the Gulf of Thailand	www.archdaily.com	Children interact with each other through fun activities to increase children's awareness. Designed aspects. The structural design of a cantilever roof with 8 meters high, like a big umbrella to provide shade and protection from rain.

¹ Beck, et al Laboratory 2 Design guide, Architecture press Building type basic for elementary and secondary schools

2010	The kubala washatko architects	Madison /Vskansyn	www.archdaily.com	The architectural design of the museum of local natural materials and colors that somehow raise the quality of the air inside the museum as well as attending a ordinary green space in the induction of user. Sustainable design using green roof and photovoltaic panels for electricity.
2011	Work Ac Architecture	New York / United States of America	www.archdaily.com	The museum is designed to encourage more kids to the arts and learning, a place where kids where their works and exhibit them at the same time. Water for hand-washing cycle to be modified and tailored to different age groups.
-	Zeraf architecture studio	Taipei / Taiwan.	www.archdaily.com	Children's museum is designed in two separate floors of the main museum and around the site in relation to the park. Box Toys sink embedded in the floor area so that children are encouraged to pass out of the museum and park.
-	Krueck & Sexton Architects	Illinois / Chicago	www.archdaily.com	Its contact between the play and learn at the museum galleries for spiral ramp at floor level. There atrium over the entire surface of galleries to display and provide physical activity for children.

And analysis of the samples examined:

Diagram 1-33 index component in architectural design spaces for children

Reference: author

Figure 2.3 the components of the index upward trend in architectural design spaces for children

References: author

THE ACTIVITIES WITHIN THE PROJECT:

Table 4.1 Examine the inner workings Plan

Year	1994
Author	Nazarinezhad, H. Aylin, Hart, B.
Books (paper)	Pre-school education
Source	Astan Quds Razavi, Second Edition
Title	Indoor activity
Design Pattern	<p>The lack of space limited by high walls and divided by walls and counters the growth and creativity of children is raised. Restrict minors caused abnormalities in the child's character and sense of doubt in him. The child will doubt their abilities and sense of confidence and loses its independence.</p> <p>Each class requires a space that is empty of any structural elements, outdoor use and has no restrictions.</p> <p>Each section can be large or small as needed, and most of them employed in hours of operation. It should be noted that the paths are designed in such a way that it will not interrupt</p>

				the space and the space shuttle in space does not come for free. Partition model and the wall must be such that the guys put a more intimate spaces and cozy at the same time the teacher saw the guys in this space is not blocked.
Classification of Education	Educational materials related to the activities of teacher-made	Educational materials related to self-help	Educational materials for discovery learning	
	Music Story Language Special events	Dress resting Go to the bathroom eat Sort of room and collect objects	The cubes The manual skills Exploratory Arts section The housework The section on special interests	
Discovery learning training materials for indoor activities	The Arts Initiative: (the crafts)	Housekeeping section (section bases imaginary)	The cube (part of the game collective)	
	In this section, what is particular useful for the large table in the middle of the room with the tools needed and categorized for different activities on it.	To be able to fully play the role of their children, the housework as much as possible to be separated from other parts of commuting accidents for children in this section will not interrupt the other children. The housekeeping usually short fences and walls in the corner and carrying it separates the room from the rest.	An open space on the floor with shelves carrying on one or both sides of it. Based on the size and shape of cubes on the shelves instead charge of. Children can shapes and sizes that are needed for the building of their choice and your imagination to reality.	

According to Hart, the author of the source table

EVALUATION OF OUTDOOR ACTIVITIES:

Table 5.1 Evaluation of activities outside the building

Year	Author	Books (paper)	Source	Investigation activities outside building
1994	Nazarinezhad, H. Aylin, Hart, B.	Pre-school education	Astan Quds Razavi, Second Edition 1994	Space and attention to the game including the most important areas is essential because it can be said that one of the attractions that brought the child at the center of this play space (such as game). At least half of the space should be exposed to the sun. Meanwhile, in the free atmosphere of the game, should be provided with devices that can provide needed shade. So that the land must be divided into different age groups for children with appropriate means commensurate with the building, playground equipment, landscaping and boundary characteristic of such requirements, and they are almost indistinguishable if the children can hear each other's voices as well as each other see (Ayline et al., 1994) .
1997	Society for the Protection of the Rights of the Child	Convention on the Rights of the Child	Publishers Soroush and UNICEF, Tehran, First Edition.	In paragraph 2 of the International Covenant states that it is necessary and appropriate spaces various authorities provide for children to play. This place is better to be near the children's place of residence (Society for the Protection of the Rights of the Child, 1997).

According to Hart, the author of the source table

SPACE CHARACTERISTICS AND LEVELS OF PLAY:

Table 6-1 Study activities outside the building

Year	Author	Books (paper)	Source	Characteristics and levels of play space
2004	Ayda Izadpanah Jahromi	Child play city	Page 27.	<p>According to the opinion of psychologists "game" is an activity when the five properties are met:</p> <ul style="list-style-type: none"> • Do not intrinsically and motivate. • Participate in it freely and not forced. • It is actively participating in such a manner. • Is enjoyable and fun. • Levels of pretense and imitation, and in this way the child employ the power of your imagination (Izadpanah Jahromi, 2004).

According to the author Izadpanahi Jahromy

VIEW SPACE FOR DIFFERENT AGE GROUPS:

Table 7.1 Specifications space for different age groups

Year	2004
Writer	Izadpanah Jahromi Aida

Books (paper)	Child play city
Source	Page 27
Title	View space for different age groups
Profile playground for the age group 0-3 years	Activity: ball games, fantasy games, according to knowing things, running and walking. Equipment bags of sand, place flowers game, small game devices, and portable devices. Location: indoors or outdoors, lawn work or the floor and without stairs and dangerous angle. Minimum Space: about one square meters for each child.
View the 6-year-old group match age 4	Activity: ball, running Equipment: Goods for land-based game full of sand, creating a solid ground for painting and skating. Location: land to set up tents open and closed positions, lawn work or the floor without stairs or dangerous angle. Minimum space: about 2 square meters for each child.
Profile playground Group age range 7-11 year	Activities, ball games, and free games and fields of grass or the floor. Equipment: Pathways to sports games, building games, workshops for foster artistic creativity. Location: Outdoor, Lawn, or the flooring. Minimum space: about 3 square meters for each child.

B adopted from author: Izadpanah Jahromi

SPACE ADVENTURE GAME:

Table 2.1 Space adventure game

Year	2004
the writer	Jean Piaget
Books (paper)	Games and emotions of childhood
Source	London, 383, pp. 146-150.
Title	View space for different age groups
Playground of adventure	Earth adventurer, who prepared the earth closed with variable dimensions, some objects and various building materials and the children had been left in it so they can use your creativity with the construction of cottages, they strengthen the gardening and This type of game is just a small hut or shelter against rain is needed that can be used as a warehouse for the ongoing work of the seasons be considered if it can be place with a minimum area of 100 square meters where was built. Children of such lands to build and create new forms and arrangements that called for flexibility with their cognitive, social, and physical growth of children in a very effective medium.
Green space adventure game	In these spaces, natural areas informally with their size, diversity and variability, creativity and knowledge of local natural conditions are favorable. The lack of clear structures and all of these fields, to develop children's imagination and imagine that. Game environment in such a situation must flow from one environment to another in an endless manner and as simple as encouraging children's creativity flourish. The key to success in such places, the participation of users in the design process. This land could be multi-purpose building two or three rooms for socio-cultural activities would be beneficial.

According to Jean Piaget by the author

CLASSIFICATION RECREATIONAL ACTIVITIES FOR CHILDREN 6 TO 12 YEARS OLD:

Table 2.2 Classification recreational activities for children 6 to 12 years old

Year	1994	
Writer	Consulting Engineers environmental tests	
Books (paper)	Principles and criteria for designing urban parks	
Source	Department of Parks and green space.	
Title	Classification recreational activities for children 6 to 12 years old	
Classification Activities	Facilities and activities elements	Type of activity
Presence in communities and nature Creativity, visualization	Walls and the flooring to play and write in a closed area with tables and chairs, arbor.	Collaboration, knowledge with others, plays a role.
	Lunch - coffee, library, open space with benches.	Study and relax.
	Dramatic free space.	Attend theater (as an actor and spectator).
	Proscenium, small house, ship and train, jeep.	Story alive.
	Circus - theater, puppetry, and children's theater.	Watching the outdoor show.
	Tools for painting, workshops, warehouses, exhibition materials.	Visual and artistic activities.
Physical and motor	stairs, different levels of	Jumping up and down, dangling.
	Lake dock jet stream.	Water play.
	Slides - inclined surfaces - height.	Glide, Welter.
	Swing ropes, nets, axes fixed and mobile balance for mobile bridges, carousels.	Suspended in the air, rocking motion, balancing.
	Volumes of shape, pipe tunnel labyrinth.	Running- discover - hidden and revealed.

Consulting Engineers environmental tests by author

PHYSICAL PLANNING ARCHITECTURE

Diagram 1- Architectural fabric planning

SAMPLE OF OUTDOORS IN COLLECTION

Diagram 1-1 diagram of sample of outdoors in collection

References: author

DIAGRAM OF INDOORS SPACES

Diagram 1-2: indoor spaces of collection

References: author

- ALTERNATIVES OF DESIGN

Alternative No. 1

Images

Features	
<p>-Command Flexible with the use of curved lines has enjoyed a good spatial diversity Additional sections form a center and can be designed for specific spaces</p>	
Defects of design	Advantages of design
<p>There is high level of design and waste more energy</p>	<p>Interior design scheme of diversity is more space.</p> <ul style="list-style-type: none"> - Attractive and inviting form - Balance form with function set - Flow and circulation in the direction and sense of movement to the audience - Readability and flexibility in the approach to set design (creativity)

Alternative 2.

Reference: author

Images

Features	
<p>Children atmosphere using soft lines and curves and form Mntf- Taking advantage of children's creativity in design concept form set Design spaces dedicated to galleries to display works of children</p>	
Defects of design	Advantages of design
<p>Lack of ease of implementation of the plan The need for skilled workers to run Costly implementation of the plan Time on the implementation of the plan</p>	<p>Fitness series form with function A variety of medical areas Fermi visual appeal</p>

SELECTING THE BEST ALTERNATIVE

Alternatives	Alternative 1	Alternative 2

economy	-	-
form	✓	✓
Conception	-	✓
Performance	-	✓
Proper movement circulation	✓	✓

View	✓	✓
Landscape	✓	✓
beauty	✓	✓
	-	-
Compatibility with the surrounding tissue form	✓	✓
Located right on the site	✓	✓
Growth potential	-	-
Due to the climate	-	✓
According to the concepts of creativity	7	10
Total Points		✓

Referenece: author

-DESIGN PROCEDURE

Description	
The main idea of the project was the way children play the game at an early age due to the growth of the child's creativity as well as a special plan for children is the formal and the creativity of children in the appropriateness of tradition.	
Image	
<div style="display: flex; justify-content: space-between; align-items: flex-start;"> <div style="text-align: center;"> </div> <div style="text-align: right;"> <p>Main idea</p> </div> </div>	

Referenece:

author

SUGGESTED DESIGN FOR CHILDREN HOUSE

-Suggested design for children house

Images and dicuments of suggested designs	Descriptions
<p>Ground Floor Plan</p>	<p>Plan ground floor consists of entrance space, lobby sets, outdoor painting, children's theaters, restaurants and galleries child. The spaces are located radially around the original volume set. Home Mrkzhjm outdoors paintings that focus on creative activities for children.</p>
<p>Ground Floor Plan</p>	<p>The first floor plan includes an amphitheater, a chapel, administrative area and dining room staff is set up and design of green spaces within the complex.</p>
<p>Sec A - A</p>	<p>Stage of the project that show the relatively low height given the scale of the project is children and children's furniture .</p>
<p>Design perspective</p>	<p>Design perspective, especially children who are associated with the site plan at site plan of exhibition space, children's play tunnel, designed for children to play platonic shapes, showing open space and green areas cover most of the site plan</p>

<p>In this part of the site for the Platonic solids collection is designed and intended for children is that children can see and touch the volumes closely with them to the game that this way of creativity in children house</p>
<p>Input using a soft curved lines and is designed to move and inviting sense of rhythm and repetition to induce a form. Flooring designed specifically for children, along with enjoying the lively colors and childlike using a circular form, space for togetherness and a sense of collective game on the child.</p>
<p>Show design space and an outdoor theater for children in the natural environment of the site, enabling performance in the natural environment that provides children a childish display space is open and makes sense of excitement and enthusiasm for children to run and watch the natural environment sustains a relationship with the surrounding natural environment.</p>
<p>Children's play area with games designed furniture, play equipment, children's play equipment (slides, swings, etc.) space for play and entertainment and children are together and enjoy the type and manner for children, causing your child's creativity</p>
<p>Children's drawings and art space designed to show the effects of child growth in this space makes sense to encourage children's artistic talent and competitive exhibition of children's children, and draw</p>

<p>Space design arcade within the complex and the center of the space, in light of the factors stimulating creativity in designing this space, paying attention to a child's play room for children's games will be the collective and individual will promote creativity in children.</p>
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CONCLUSION

Given that the most important stage of life, from childhood to the formation of human character, spaces designed for children with mental and physical characteristics of children's knowledge, understanding children's needs required architectural spaces, by analyzing examples of architecture children the spaces of childhood by using components such as color, scale and children's furniture, a variety of spaces, inviting and readability spaces, the design of circulation, access suitable for children with the architectural design galleries and studios child, play spaces indoor and, children's library, children's theaters enjoying a theatrical art activities, storytelling to promote children's creativity. The results can be child-centered design or architectural design that most users of space, children are utilized.

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