

Analyzing New Trends in Architecture Pedagogy

(Teaching Methodology in Architecture Education)

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Abstract— There are different fields of education and each of them needs to be creative, skilled or experienced based learning. Architecture education is one of it, which needs a creative teaching and learning methods. With the change in time, we have studied human psychology and explored more of our brain which results in amazing discoveries and creating beautiful architecture all around. This paper presents the current standards of architecture pedagogy in India. The aim of this paper is to analyze and identify the creative brain through innovative pedagogy by introducing certain exercises among the group of students. It is expected that the result may give creative learning and teaching methods so that we may give a whole new definition to the architecture pedagogy with the change in trends.

Keywords— Architecture pedagogy, analyzing creative brain, architecture trends

I. INTRODUCTION

Architecture is the course that gives an opportunity to use the right-hand side of the brain. The part of brain which is more of the creative half. In my view architecture is for those who are born creative a strong right half of the brain. They may be a slow learner but can think out of the box in a more creative way. Earlier we don't have studied much of our brain but for today we are more known to it though there are more to explore. So, to get the best right-hand creative brain we have to study and understand these three headings a) architecture pedagogy b) analyzing creative brain c) architecture trends.

II. ARCHITECTURE PEDAGOGY

A. architecture education

Directly or in indirectly architecture education is changing our society each day, it has a great impact on today's fast-growing world. Architects are the one who are giving shape to the universe a physical as well as virtual starting from habitation in the deepest sea to the Land of Mars. The art and

science of teaching in architecture is architecture Pedagogy which includes strategies and style of instructions. Architecture is more of a high skilled and creative base experiential learning rather than studying formulas for designing. Experiencing the data is more important to understand or to create a new design.

B. Methods of Teaching

A teacher must take an innovative approach for effective teaching. A teacher may choose different options to interact with the students. The teacher may prepare their value-added curriculum for learners so that the topics may get more interested and understandable. For a better teaching ability, a teacher must understand the student psychology first, then test their background knowledge and creative thought process. Teacher must aware of different learning methods of students and but best way is to appreciate and motivate the students. Students have different ways of absorbing information and of demonstrating their knowledge to retaining information and better understanding teacher should apply multiple teaching technique. There are varieties of strategies and methods used to ensure that all students have equal opportunities to learn and grow their brain creatively.

III. ANALYZING CREATIVE BRAIN

Pritzker Prize often known as Nobel Prize for architecture is most prestigious award a living architect may receive. A degree or a license of Council of Architecture is just not enough to be a Starchitect. Today we need to introduce new trends in teaching methods in architectural education. Trends that the students need to grow more of their right-hand brain and see things through different perspective and imagine creatively using the present technology and applications. Shifting from blackboard to white board or from drafting board to drafting software is not just a modernization.

ANALYTICAL THINKING	CREATIVE THINKING
• Convergent	• Divergent
• Inward	• Outward
• Analytic	• Generative
• Probability	• Possibilities
• Sequence	• Imagination
• Logical	• Intuitive
• Rational	• Emotional
• Focused	• Diffuse
• Objective	• Subjective
• Single answer	• Answers
• Left brain	• Right brain

Fig.1. comparison of left- & right-hand side of human brain

Since India has a very rich history in art, science and technology it is more important to get a review of ancient Indian teaching style and the technique to get the better understanding of the student’s psychology.

A. Education system of Ancient India

There are many theories that proves the human nature and functioning of human brain, its psychology and the creative capability of brain.

In ancient Indian education system, the aim was initially laid down by Vedas. The teaching and learning methods were very simple which includes storytelling, memorization, hands on methods, critical analysis, seminar and questions and answers. These were such a successful teaching technique that many scholars came from outside to acquire knowledge in India but no Indian scholars went outside India to acquire their knowledge.

B. Teaching technique of Ancient India

- education involved three basic processes, one, which included
- ‘Sravana’(stage of acquiring knowledge of ‘shrutis’ by listening).
- Two, ‘Manana’ (meaning pupils to think, analyze themselves about what they heard, assimilate the lessons taught by their teacher and make their own inferences,)
- and three ‘Nidhyasana (meaning comprehension of truth and apply\ use it into real life).

C. The three areas of the brain that are used for creative thinking.

For creative thinking these three are known among the network and specific centers in our brain as discussed below and shown in fig2.

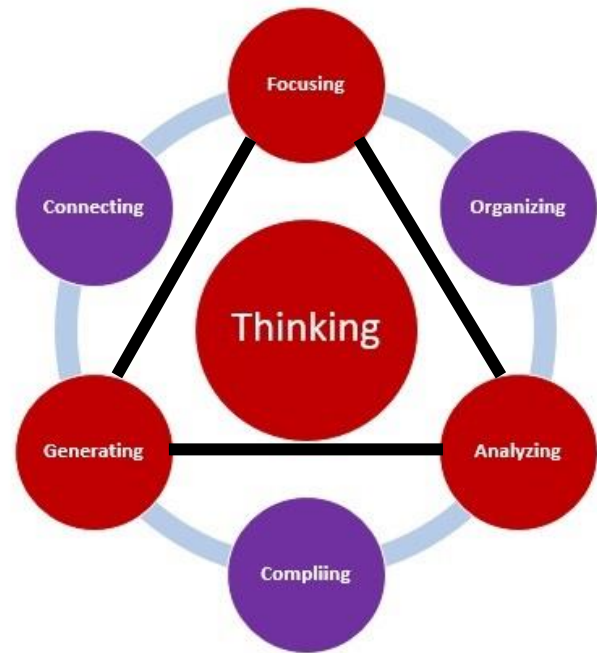


Fig.2. creative thinking process of human brain

- 1) *The Attentional Control Network* helps us to focus on particular task. These networks are mainly activated while solving complex problems or paying attention to some detail work, art, architecture and innovative planning.
- 2) *The Imagination Network* help us to imagine futuristic scenario through our past experience. Since architecture is an experience-based learning through which one can construct mental images
- 3) *The Attentional Flexibility Network* help us to switch and stitch both the imagination network and attention network inside our brain and monitor it.

D. Learning from ancient India

To analyze the creativity of a learner brain what our ancestors in ancient India use to do in gurukuls is at first, they left the students free and notice their activities side by side. After few years when they see the abilities then they segregate the group of students as per their talent and creativity and then they work on their teachings and test their abilities.

E. Exercises

- In architecture, first the learner should be left free to explore then design. At an Early stage we have to create interest of the learner by motivating them and giving them freedom to think creatively under the guidance criteria.
- Then we have to notice their capability, positive and negative points of each learner and work on their negatives point so that it may converted positively. For

example, if at the end you find different groups which is good at sketching, some at modeling, some at visualizing, some at explaining their ideas in a unique way and some of them are always filled with some creative ideas for anything.

- Now you may mix the group equally so that the peer learning could happen and they must share their views in which they are good at. Revise this process at least three times in different durations of time like starting for three hours to three days and then to thirty days. Notice the growth rate of each group and keep a record of it.
- At the next stage you have to repeat the same process but now interchange the group of only the expertise like a group those who are good at sketching, a group who is good at modeling etc. now you will notice the difference and the growth of each one of them as an individual as well as group. You will notice the right-hand brain growth of each of them in a very positive way.

IV. ARCHITECTURE TRENDS

Introducing new trends means learning experience on the daily basis keeping updates of teaching techniques and skills.

Winners don't do the different thing they do the same thing in a different way

So, the teachers need to upgrade their teaching tools to make the learning more interesting. As today is the age of science and technology which affects the teaching as well as learning process. We need to shift the conventional lecture and studio practice to be more practical based.

A. *Introducing new trends in Architecture Pedagogy*

Working out where to invent notions is not the key to finding more of them, but relatively we need to train our brain in the process of producing new concepts logically..

a) To make the subjects more practical based we need to incorporate more industry experts who have experienced the technique of designing details and have an on-site construction knowledge.

b) The main subjects like architecture design and building construction includes case studies and presentation in such a way that it creates interest among the learners.

c) There will be more interactive sessions so that learner may feel free to discuss their problems and put their valid points in front of teacher for their design justification.

CONCLUSION

Understanding the true and leftward sides of the brain is a boundless means to improve your labor, and to obtain a healthier consideration of who you are as a distinct. Often times, the path to better creativity deceits in skill and reason — in this situation, psychology.

As we can better understand ourselves as well as our students at this deeper level, we can better understand what we are naturally good at and what we should put our focus on.

In divergence, we can also classify where we're deficient, and deliberate of cleverer solutions for combating our faults. Practicing teaching is not an easy job, it is about creating a whole new society of your reflection and your teaching will end up building a complete new and different outcome. Applying different and new trends in teaching will surely bring a great change to our society as in our ancient Indian education reflects the culture and lifestyle of the country.

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