

The Influence of Lingnan Architectural Heritage and Innovation in the Modern Design Education System

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Abstract: As an inevitable outcome of social and economic development, architecture has a great impact on human social life. The Lingnan building is located in the southern part of China, and the relationship between historical and natural geography has made Lingnan architecture a unique presence in the traditional Chinese architectural culture system. In order to further explore the influence of Lingnan architectural heritage and innovation on the modern design education system. This paper has carried out in-depth exploration on the traditional Lingnan architectural characteristics analysis, and hopes that traditional culture can be better integrated into the modern architectural concept.

1. Research background

1.1 Literature review

The traditional Chinese architectural culture is vast, and each type of building has its own unique architectural style and culture. As a representative of traditional architecture in the south, Lingnan Architecture has become a splendid treasure in the history of Chinese architecture. Nowadays, with the continuous promotion and inheritance of traditional culture, Lingnan architectural culture has become a faction of modern design culture and has attracted the attention of many scholars. Du Hongwu and Wang Guoguang believed that the Lingnan School of Architecture developed and improved its overall holistic design method earlier, and the “two views and three characteristics” were the basis of epistemology, forming a mature and efficient overall design method, providing a modern design education system. Methodological support (Du and Wang, 2014). Xue Sihan et al. proposed a special hot and humid climate adaptation theory for the modern design education system from the Lingnan garden building to adapt to the hot and humid climate, focusing on the spatial distribution characteristics and landscape element layout (Xue et al, 2016).). Wang Liping believes that the European and American styles in the construction field in Guangdong have led to the gradual weakening of the traditional architectural style of Lingnan in the modern architectural culture system. Therefore, the author believes that the characteristics of Lingnan culture and its characteristics and elements reflected in Lingnan architecture are what designers should learn and inherit (Wang, 2016). Lu Ying believes that the traditional architectural design concept of the Lingnan Guangfu area is not only a reflection of culture, but also a creative activity. The exploration of the innovative design of Lingnan traditional architectural design elements is the responsibility of the designer's self-cultivation, focusing on improving the designer's cultural appreciation ability, and opening the innovative design activities under the inheritance (Lu, 2015).

1.2 Research purpose

The rapid development of the social economy and the architectural culture are constantly evolving. Nowadays, science and technology and the development of the times, traditional culture and modern provincial capital are closely integrated, and the application of modern lifestyle, better inheriting traditional architectural culture, has become an urgent need to think and solve modern architectural design. With the acceleration of economic globalization, European architecture has satisfied the pace of modern people's light life, making European architecture develop faster in China. However, in this process, Chinese architecture with traditional cultural heritage is constantly

disappearing, and traditional architectural culture is gradually disappearing. As a representative traditional building in China, Lingnan Architecture has become a problem to be considered and inherited. In this regard, in order to further promote traditional culture, it is of practical significance to study the influence of Lingnan architectural heritage and innovation in the modern design education system.

2. Analysis of traditional lingnan architecture features

Traditional Lingnan architectural forms are diverse. Generally speaking, in terms of function, Lingnan architecture has good ability of shading, ventilation and heat insulation; in terms of architecture, Lingnan architecture presents a north-south pattern design, comb layout; Lingnan buildings are characterized by ingenious and light features; in terms of architectural color, Lingnan architecture pays great attention to the use of light-colored lines, and the light-colored lines divide the architectural level, which is patchwork. Generally, traditional Lingnan architecture follows three architectural concepts. The first is the construction concept of “Heaven and Man” (Wang, 2018). Since ancient times, the people of Guangdong have a lofty awe of nature, which has led them to apply such ideas to architectural design. For example, the architectural form of the comb layout promotes the Lingnan architecture to present a north-south trending form. The entire building has good ventilation and heat insulation properties, and the adaptability to the climate is open and compatible. Guangdong is located in the southernmost part of China, close to the geographical advantages of overseas, so that the design concept of Lingnan architecture is deeply influenced by the architectural culture at home and abroad. Under the influence of long-term history and culture, Lingnan Architecture absorbs the essence of various architectural cultures and gathers the strengths of hundreds of families to present an inclusive look. At the same time, the influence of multiculturalism has also made Lingnan architecture a diversified feature (Zhou, 2011). The third is the concept of living in the world. From ancient times to the present, the Guangdong area where Lingnan is located is a place of frequent trade. The strong commercial atmosphere is an important embodiment here, so this also creates the practical ideas of Lingnan people's architectural style focusing on the use of the world.

3. Modern inheritance and innovation of lingnan architecture

3.1 Focus on excavating the oriental elements of Lingnan architectural culture

The difference between modernization and traditional architectural design lies in the different focuses of rationality and sensibility, order and change, and labor and freedom. The modern Lingnan-style building is a perfect blend of appearance and spatial connotation. And usually achieving this goal requires designers to have a strong background in cultural accumulation and aesthetic attainments. The modern inheritance and innovation of Lingnan architecture puts higher demands on today's architectural designers, spending time and energy on thinking about innovative design concepts that blend traditional oriental elements. Therefore, modern Lingnan architectural faction designers need to excavate and absorb the details of traditional architectural elements, and innovate in terms of architectural style and project attributes.

3.2 Emphasizing the cultural heritage of the East with the help of Lingnan garden design

Lingnan Garden is a typical representative of traditional Chinese gardens. It attaches great importance to the concept of harmony between man and nature in architectural design. To a large extent, such design concepts contain a healthy concept of living. For example, Century Kangcheng is a typical representative of the new traditional Lingnan architecture. In its design, it fully demonstrates the design concept of harmony between man and nature. The layout of each pavilion and each wash stream in Century Kangcheng refers to the architectural concept of Lingnan Garden, and all reflect the delicate concept of harmony between man and nature. Under the requirements of the modern scientific development concept, the modern inheritance and innovation of Lingnan architecture truly achieves the perfect integration of people and cities.

3.3 Pay Attention to Building Architectural Culture Form and Spiritual Connotation

On the basis of inheriting the traditional Lingnan architectural culture elements, the modern inheritance and innovation of Lingnan architecture must fully consider the needs of the times and enhance the vitality of the building. To some extent, modern Lingnan architecture is also a cultural competition. The traditional Lingnan architecture's decorative techniques pay great attention to local traditional cultural characteristics. For example, Zhongkeng Wang's Ancestral Hall and Kangwang Temple are the representatives of Lingnan architecture, which fully embody the traditional architectural culture and become a unique architectural culture symbol. Therefore, the modern Lingnan architecture puts the charm of Lingnan into the building on the principle of aesthetics and generosity, and further integrates the Lingnan culture in the selection of walls, roofs and bricks by means of refining and superposition.

3.4 Drawing on the insulation, moisture and lighting measures of Lingnan building

Any building needs to be designed for insulation, moisture, and ventilation. In terms of heat insulation and moisture resistance, the modern inheritance and innovation of Lingnan architecture fully draws on the environmentally friendly design of traditional buildings, and avoids the use of materials such as moisture-proof wallpapers and wood-based flooring. At the same time, the walls and load-bearing columns are basically made of environmentally friendly stone. Or carpet to protect. In terms of natural lighting, the modern inheritance and innovation of Lingnan architecture adopts the traditional patio-style natural lighting design, and the space with better daylight conditions is designed as the sunshade lighting top to achieve the ideal lighting effect. In terms of air circulation, it is in the design of the main passage, drawing on the corridors and cold alley ventilation of Lingnan buildings, and the narrow south and north ventilation, which can promote the air circulation in the building.

4. The influence of lingnan architectural heritage and innovation on modern design education system

4.1 Innovating the expression of modern design education and enhancing the importance of traditional culture

The important goal of the modern design education system is to teach students to live in a world of beauty. The traditional Lingnan architecture inheritance and innovation is even more so. The aesthetic factors in traditional culture can greatly enrich the objectives and learning content of modern design education courses. For example, Lingnan garden architecture is used in modern design, and its exquisite and pragmatic style can influence the teaching direction. The formation of a modern building site should conform to the characteristics of the regional environment, not stick to the surface form, and pursue the teaching philosophy of natural and harmonious landscapes. Therefore, in the modern design education system, it is also necessary to emphasize the all-round combination of regional characteristics, traditional culture and modern architectural culture.

4.2 Pay attention to the construction of traditional cultural talents and improve the overall quality of education and teaching staff

The full application of Lingnan architectural culture requires standardized school education to complete. And the education of all educational undertakings is the first priority. The comprehensive quality of the teaching team is the key to the inheritance and promotion of Lingnan culture. Therefore, the inheritance and innovation of Lingnan architecture needs to be combined with the modern design education system to comprehensively enhance the status of Lingnan architectural culture educators. Similarly, any cultural construction requires long-term study and cultivation. If the modern design education system wants to continuously inherit and carry forward the traditional Chinese culture, it needs to concentrate on improving its professional and cultural qualities, so that it will continue to innovate in the modern design concept.

4.3 Actively participate in traditional cultural exchanges and innovate modern design concepts in blending

The reason why traditional architectural culture has been developed to the present day is still being promoted because of its vitality, its diversity, tolerance and openness. Therefore, the Lingnan architectural culture that has been promoted to this day is such an inclusive culture. As early as 2,000 years ago, Lingnan culture began its own cultural development journey. In modern times, Lingnan, as the only region that communicates with foreign countries, has absorbed a unique overseas culture to form such a unique architectural culture. In this context, the innovation of the modern design education system can not abandon such a concept, open tolerance to create their own unique architectural culture.

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