

## **NEW CONTRIBUTIONS OF THE THESIS**

- 1. Subject of Thesis: Spatial, architectural and landscape management of Bac Giang City toward a green city.**
- 2. Major: Urban and construction management**
- 3. Code: 62.58.01.06**
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- 6. Training Institution: Hanoi Architectural University**

To overcome shortcomings and limitations as well as to gradually build and manage the space, architecture and landscape of Bac Giang City toward a green city, the thesis proposes 03 new contributions as follows:

- ***First***, the thesis is able to identify issues of spatial, architectural and landscape management in Bac Giang City. On that basis, the thesis systematizes the theoretical foundation for spatial, architectural and landscape management toward a green city, as well as clarifies the concepts of “a green city” and “toward a green city”.

- ***Second***, in order to build Bac Giang City toward a green city to 2035, the thesis proposes to focus on 3 main groups of criteria and 16 key indicators, such as:

(1) *Greening landscape*: Appropriate scope of green space; Evaluate investment in developing green space system by approved planning; Exploit and use effectively green space system.

(2) *Improving quality of space, architecture, and landscape*: Preserve and promote spatial, architectural and landscape values; Protect valuable architecture buildings; Urban construction order; Develop green buildings and green architecture, mainly public utilities and new urban areas; Control the process of forming and developing urban appearance, improving urban identity.

(3) *Protecting urban environment for climate change adaptation*: Organize classification and collection of waste at source; Transport and treat solid waste in the city centralized treatment areas and treatment process meets 3R standards; Manufacturing factories shall use advanced technologies to ensure that emissions and dust do not cause environmental pollution; Relocate small and scattered cemeteries to the city centralized cemetery; Streets and roads shall be frequently cleaned from dust, swept, and washed; Receive and apply rainwater and wastewater circulation technology; Select climate change scenario(s); Mitigate negative impacts of climate change; Adapt to climate change.

Proposing set of criteria to evaluate the effectiveness of spatial, architectural and landscape management of Bac Giang City toward a green city makes the contribution to support planning indicators; improving the green space; preserving and promoting valuable historical sites and architecture; developing green buildings and green architecture; enhancing urban identity and protecting the environment to adapt to climate change. The criteria proposed by the thesis can be applied to Bac Giang City and urban areas with similarities.

- ***Third***, the thesis proposes 5 groups of practical, effective and specific solutions, which are capable of best meet the viewpoints, goals, principles and requirements of spatial, architectural and landscape management of Bac Giang City toward a green city, such as:

(1) Finalizing legal basis and management tools of space, architecture, and landscape toward a green city;

(2) Zoning the spatial, architectural and landscape management of Bac Giang City toward a green city;

(3) Implementing activities of spatial, architectural and landscape management of Bac Giang City toward a green city;

(4) Strengthening capacity of State management in space, architecture, and landscape of Bac Giang City toward a green city;

(5) Promoting roles of communities and engagement of residents in spatial, architectural and landscape management of Bac Giang City toward a green city.

The most important in management is to proposing groups of solutions to spatial, architectural and landscape management of Bac Giang City toward a green city, which is the implementation basis for the authorities, organizations, and individuals.

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