

INFORMATION OF NOVELTY CONTRIBUTIONS OF THESIS

PhD candidate: **Huynh Trong Nhan**

Thesis topic: *Provincial urban drainage management towards sustainable development in Mekong Delta*

Specialization in Urban and Construction Management Code: 9580106

Scientific instructors: **1. Assoc Prof. Nguyen Hong Tien**
 2. Dr. Le Ngoc Can

Educational institution: Hanoi Architectural University

Novelty contributions of research:

- Propose management criteria frame and assessment content for provincial urban drainage management towards sustainable development in Mekong Delta which based on the results of SWOT analysis, including 3 groups of criteria: (1) Organization management institutions, mechanisms and policies, management capacity and community participation, (2) Integrating drainage towards sustainable development in the planning and (3) Technical management.
- Propose to supplement the provisions of the regulation related to urban drainage management, including: (1) the process and content of integrating sustainable drainage solutions in urban planning; (2) supplementing contents related to rain water drainage management towards sustainable development in Decree 80/2014/ND-CP and local regulations of drainage management.
- Propose solutions for provincial urban drainage management towards sustainable development in Mekong Delta, including: (1) zoning for sustainable drainage solutions for the Mekong Delta based on the existing condition of each city, (2) propose application processes and validation of Sentinel-2 remote sensing analysis results, applied for Vinh Long city permeable area analysis that support to evaluate the rainwater drainage capacity toward sustainable development.