

NEW CONTRIBUTIONS OF THE THESIS

Name of Thesis: **Research on SBR technology using aerobic granular sludge to treat urban wastewater.**

Major: **Infrastructure engineering**

Code No: **62.58.02.10**

PhD Candidate: **Pham Van Doanh**

Academic supervisors: **1. Assoc.Prof. Dr Tran Thi Viet Nga**

2. Assoc.Prof. Dr Nguyen Thi Ngoc Dung

Training Institution: **Hanoi Architectural University**

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- Successfully cultured aerobic granular sludge experimentally on sequencing batch reactors (SBR) technology in a laboratory in Vietnam with acetate OLR from $2.7 \div 3.0$ (kgCOD/m³.day) with aeration intensity $q = 12,5 \div 28.5$ (m³/m².hour).
 - Research on successful application of aerobic granular sludge on SBR technology model to treat urban wastewater in Hanoi City with low organic load, as a basis for improving SBR technology to improve treatment efficiency urban wastewater treatment in Vietnam conditions. Proposing a new technological line applying aerobic granular sludge to treat urban wastewater in Vietnam.

PhD Candidate

Pham Van Doanh