Integrated Framework for Construction Innovation Education—a Lesson Learned in Chung Hua University

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Abstract

The construction innovation education in Taiwan has just started. Very few higher education institutions offer construction innovation curriculum for their students. This paper describes the experiences of developing the construction innovation curriculum for students of the Institute of Construction Management at Chung Hua University in Taiwan. Three stages of curriculum evolution are described including: (1) process modeling and constructability-based curriculum; (2) patent analysis based and computer aided innovation curriculum; and (3) R&D integrated fast innovation curriculum. The successes and difficulties experienced and confronted in the curriculum development are described and discussed. Lessons-learned are concluded to provide the educators of construction innovation a guideline for curriculum design and practical coursework delivery.

Keyword: Innovation, Construction innovation, Integrated framework, Lesson-learned