DEVELOPMENT AND EVALUATION OF THE INCLUSIVE EDUCATIONAL PROGRAM FOR ARCHITECTURE WITH 3DCAD AND ANALYTICAL APPLICATIONS

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To enable students to learn practical knowledge of the Building System, Environmental Engineering and Structural Mechanics for architectural design inclusively, we developed an educational program that introduced reverse engineering with 3DCAD and some analytical applications, and have conducted classes in line with the developed program since 2007. This paper describes the outline of the developed program and the conducted classes, and evaluates them from the pedagogical aspect. As a result of analysis of the comprehension of each student taking the class and student's demand for improvement of the class in a questionnaire, the following was clarified. 1. An improvement in the comprehension of more than 80% student was obtained in comparison with before the class began, with the exception of part of the comprehension about Environmental Engineering. 2. Problems with the result in the use of 3DCAD or analytical applications in the class and the class conduction method were identified.