Eğitim ve Öğretim Araştırmaları Dergisi
Journal of Research in Education and Teaching
Haziran 2017 Cilt:6 Özel Sayı:1 Makale No: 28 ISSN: 2146-9199

USE OF KINETIC PRACTICES IN ARCHITECTURE EDUCATION

Öğr. Gör. Sertaç Karsan Erbaş
Mimar Sinan Güzel Sanatlar Üniversitesi
sertac.erbas@msgsu.edu.tr

Abstract

The concept of kinetic is defined as motion and science of motion, kinesis, and action. The use of this concept, which is applicable for all disciplines, in architecture has gained momentum in line with the developments in technology. In particular, use of kinetic as part of parametric design along with computational design methods promises potential for improvement in parallel with the user. It ensures replacement of any part or parts of the structure without disrupting the integrity of the structure. They are controlled through electronic circuits. One of the motives for the replacement is to adapt to climactic conditions. It is considered that the kinetic systems to be designed and use as part of the structure as a result of this adaptation shall make positive contributions to the energy efficiency of the structure. This study examines the subject through a number of designs constituting case studies for kinetic and focuses on the reflection of those designs to education. It is concluded that the concept of kinetic should be incorporated into educational curricula as part of the education process as an important concept for sustainability. It is also considered that increasing the ratio of practical lab courses in the curricula, forming relationships with the industrial and private sector actors concerning the concept of kinetic, improving those processes and redesigning educational curricula accordingly may, among others, make contributions in professional terms.

Keywords: Parametric Design, Kinetic architecture, Kinetic Education.