PROJECT BASED LEARNING MODEL IN THE BUILDING CONSTRUCTION AND DRAWING COURSE AT VOCATIONAL SCHOOL

Ikhwanuddin¹, Retna Hidayah², Sativa³

¹,²,³ Faculty of Engineering Yogyakarta State University
likhwan1din@gmail.com, 2 retnadewa@yahoo.com, 3sativa@uny.ac.id

Abstract

Graduate diploma in civil engineering is required not only understanding the structure of the system but also to understand as well as to produce project drawing documents. How to construct a suitable learning model to match the competence of civil engineering diploma graduates with the requirements of professional workforce is still in question. This paper aims to discuss the most appropriate model of Project Based Learning (PBL) to be applied in building construction drawing course on civil engineering diploma program. This model was developed through a comparative study of PBL models which are selected based on consideration of the suitability of "substance" and "order" procedure. Then the selected model is implemented in an action research on building construction drawings course in order to get the most appropriate model of PBL. The study concluded that the four phases of the Schneider’s PBL model can be effectively applied in building construction and drawing course, but need to be modified especially in the content of procedure in the third (project implementation) and fourth (completion) phases.

Keywords: modified Schneider’s model, Project Based Learning, building construction drawing course