A Constructing Ubiquitous Learning Environment Study - Based on Collaborative Model

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ABSTRACT
The issue of worth exploring in ubiquitous learning environment includes infrastructure, better teaching tactics and suitable content about teaching activities. And it will be effective critical success factors to adopt what kind of teaching design and tactics for the plural learning environment. In addition, because RFID is expensive at present, if use RFID to build and construct the ubiquitous learning environment in the primary schools, benefit obtained may not accord with the cost. Application of and the two-dimentional bar code becomes a kind of world trend gradually, how to use the powerful tool already attracted attention by the whole world. Therefore, we construct ubiquitous learning environment by two-dimentional bar code and ubiquitous technology. It can promote students' learning efficiency by using information technology, and we also construct a subject related collaborative learning community. We propose STS collaborative learning model, and applying this model into instruction activities in ubiquitous learning environment we designed. Finally, we use nature science learning attitude questionary to understand whether there is difference of showing on student's attitude in "nature science and life technology" learning domain. The result of the study reveals that students are in the attitude toward nature course, attitude toward nature teacher, nature learning motivation and nature learning tactics all have positive result.

Keywords : Ubiquitous Learning ; STS Collaborative Learning ; Nature Science and Life Technology