Using Flipped Methodology for Teaching and Learning in Engineering Program: Case Study in ITC, Cambodia

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ABSTRACT

Many universities in the world are still using traditional teaching and learning (T&L) methodology, in this T&L methodology will be consumed many teaching efforts, repeated teaching times, and repeated class activities to get a good result. Flipped classroom is possibly to replace the traditional classroom, but it would not be so easy to implement in the developing countries because of some barriers such as poor network infrastructures, poor ICT knowledge, limited using content development tools, and lecturer’s / professor’s motivations. In this research work will present many teaching methodologies, which are using in Engineering Program of Cambodia’s Higher Education, then will show the comparison result of student learning output, also will present the lecturer’s and professor’s mindset on moving from traditional to flipped methodology, and finally we will propose an appropriated teaching methodology, which we believed that it could be replaced the current teaching methodology.

Keywords— T&L Methodologies, Traditional Methodology, and Flipped Methodology.