

Abstract

The purpose of this research is to investigate the effect of applying BLOG onto the mathematic teaching; and try to figure out how BLOG affects students' academic achievement on their mathematic learning.

The target is a class of Senior 2 students. The study of this research is going to separate the 45 students into nine groups and use their first semester's mathematic score as the index. There are varieties of learning in each group and the average academic result is from 56 to 60.8. Students study at home after they have regular traditional classes in school and discussions on the BLOG. Eight 40 minutes lessons are explored in this research. Before they start to use the BLOG on their learning, all the students will give a test on the unit of "Probability" and they will have another test after the whole unit is taught. According to both test scores – the pre-test and the post-test, and the statistics of the students use the BLOG on the web, the analysis is conducted.

The results of this research are as follow:

1. Focus on the senior probability unit, the analysis of covariance (ANCOVA) in pre-test and the post-test is significance in different levels' students.
2. Focus on the senior probability unit, the number of the post on the BLOG and the online hours had significance relationship in different levels' students.
3. Focus on the senior probability unit, the number of the post on the BLOG and the learning achievement had not significance relationship in different levels' students.
4. Focus on the senior probability unit, the analysis of covariance (ANCOVA) in pre-test and the post-test is significance in high level students group.
5. Focus on the senior probability unit, the number of the post on the BLOG and the

online hours had significance relationship in high level students group.

6. Focus on the senior probability unit, the number of the post on the BLOG, the online hours and the learning achievement had not significance relationship in high level students group.
7. Focus on the senior probability unit, the analysis of covariance (ANCOVA) in pre-test and the post-test is significance in middle level students group.
8. Focus on the senior probability unit, the number of the post on the BLOG and the online hours had significance relationship in middle level students group.
9. Focus on the senior probability unit, the number of the post on the BLOG, the online hours and the learning achievement had not significance relationship in middle level students group.
10. Focus on the senior probability unit, the analysis of covariance (ANCOVA) in pre-test and the post-test is significance in low level students group.
11. Focus on the senior probability unit, the number of the post on the BLOG and the online hours had significance relationship in low level students group.
12. Focus on the senior probability unit, the number of the post on the BLOG, the online hours and the learning achievement had not significance relationship in low level students group.