

Anusorn Hongkhunthod 2015: Development of a Flipped-Classroom Learning System Model through Three Media Formats in Music Skills for Secondary School Students. Doctor of Philosophy (Educational Communications and Technology), Major Field: Educational Communications and Technology, Department of Educational Technology. Thesis Advisor: Mr. Paitoon Srifra, Ed.D. 327 pages.

This research aimed to: 1) develop flipped-classroom music learning model through three media formats for secondary school students; 2) compare the achievement of flipped-classroom music learning model through three media formats; 3) analyze students' behavior on music learning model through three media formats; and 4) analyze students' satisfaction of music learning model through three media formats.

The samples of this study included students in three schools in Nakhon Ratchasima Province. Overall, 90 Grade 11 students enrolled during the second semester of 2014 with elective subject in music were selected using multi-stage random sampling. Data were analyzed using percentage, mean, standard deviation, and statistical tests such as one-way ANOVA and f-test with Fisher's Least Significant Difference (LSD) at 95% confidence level.

Results of the study showed that the flipped-classroom music learning model through three media formats for secondary school students (FCLS Model) consisted of five stages with three principles in the flipped-classroom environment (FCLE Model): 1) teaching in the classroom included learning with activities, active learning, collaborative activity, independent activity, and integrated testing; 2) homework included targeted practice, video lectures, and online discussion; and 3) scaffolding time was divide in three steps which included the course instruction, smart devices such as smart phones tablets, and logistics media for students using the properties of the media for learning. With regard to musical achievement, findings revealed that the average scores for all groups did not difference. The levels of student's behavior in music learning in class were good showing students' very high interest level for flipped-classroom music learning.

---

Student's signature

---

Thesis Advisor's signature