

Effectiveness of Online Jigsaw Classroom in the Civil Engineering Profession

Satjapan Leelatanon
School of Engineering and Technology, Walailak University

Overview

The COVID-19 pandemic has generated the greatest change of education system in human history. Teaching and learning are not always placed in the school or university anymore. The face-to-face interaction in the classroom has been replaced by the online class using web conferencing applications. During the most serious period in Thailand, the freshman students in the Department of Civil Engineering, Walailak University also studied their fundamental courses via the Webex application. Instead of learning in the conventional style, the course of civil engineering profession was taught by using the online jigsaw classroom. The simple question was raised in the online class. The students were then assigned to work as a group searching for information needed to answer the question. The conclusion of the group was taken place using the jigsaw classroom by sharing their information individually obtained from the internet.

Aims and Objectives

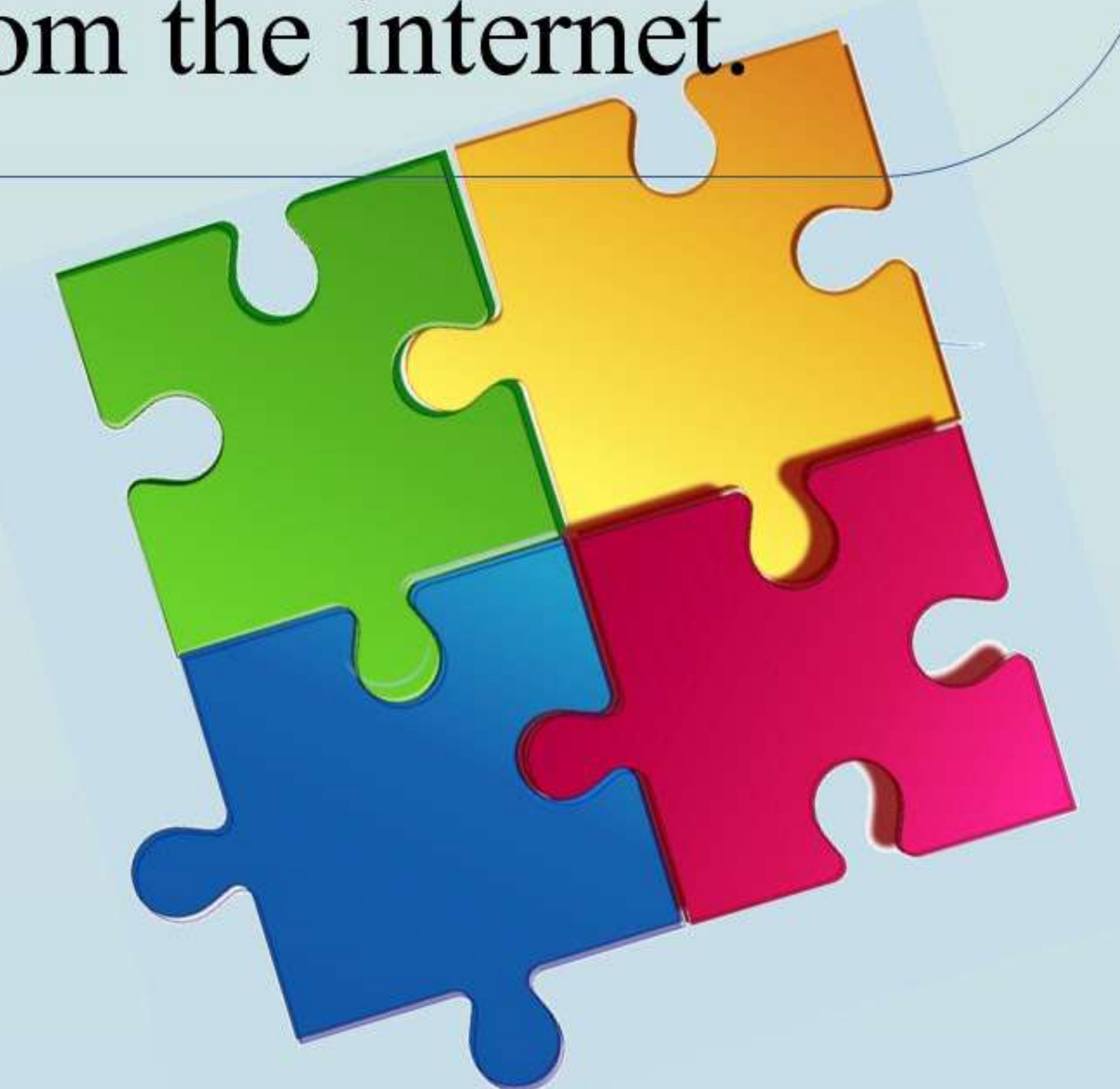
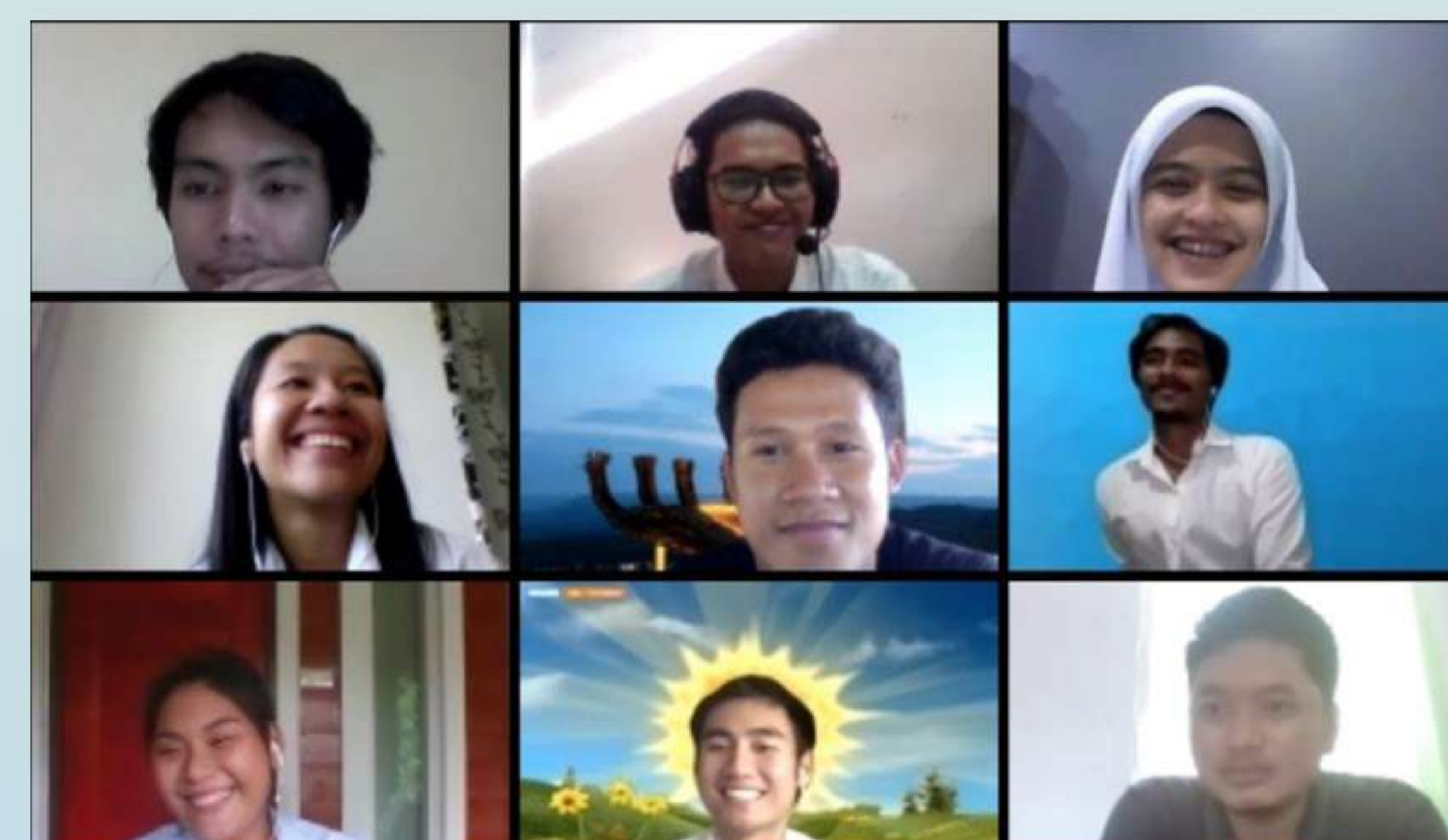
1. To encourage students to work as a team
2. To train students be ready for new learning style
3. To improve computer skill

Online Activities

1. Introduced some background of Council of Engineers.
2. Raised the issue: **“Why was the Council of Engineers (COE) established?”**.
3. Divided students into a group of three.
4. In each group, each student investigated what happened in the past before the COE founded.
5. As a team, discussed/shared what they found.
6. Each group posted the conclusions of the issue on the course’s Facebook.
7. Every student read through their classmate posts
8. Concluded by the moderator.

Outcome

1. Students show more participated in discussion as a teamwork
2. Students have more knowledge on using online applications.
3. Students know their professional organization.



Future Development of Project

1. Student feedbacks will be the improvement of the future course.
2. The online jigsaw classroom will be applied to other civil engineering courses.

References

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