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I N T E R N A T I O N A L
VIRTUAL INNOVATION CHALLENGE
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NEARPOD: APPLICATION OF INTERACTIVE VIRTUAL REALITY IN TOURISM COURSES

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Highlights: The COVID-19 pandemic has had an impact on education, particularly in tourism education. The COVID-19 pandemic has affected the education sector, especially in tourism education. All educators in travel, tourism, and related fields are struggling to find a more appropriate method of delivering a lesson, given that the commonly used method, field trips and practical classes, are no longer feasible during the pandemic.

To tackle this issue, Nearpod is used as the primary delivering method for tourism lessons. Nearpod help tourism educators combine their lessons with interactive features, real-time assessments, games and virtual reality. This interactive virtual reality learning experience made the tourism lessons more engaging and fun!

Keywords: *interactive virtual reality, learning, experience, Nearpod and tourism course*

Introduction

The spread of COVID-19 has sent shock reactions throughout the globe. This pandemic has affected almost all areas, including the economy, businesses, social life, and politics. The educational systems were abruptly disturbed too. In response to lockdown procedures due to the pandemic impact, higher education institutions (HEIs) such as universities are forced to close their premises (Schleicher, 2020). Around 1.598 billion students were affected and required to stay at home due to their educational institution's close at all levels in 194 countries. (United Nations Educational, Scientific, and Cultural Organization (UNESCO), 2020).

Many HEIs set out their endeavours to use technology to encourage remote learning, distance education, and online learning during the COVID-19 pandemic (Owusu-Fordjour, Koomson & Hanson, 2020). However, this massive shift towards online learning presents many challenges to school management, educators, parents, and students alike, particularly for tourism subjects. Among the problems faced include difficulties in controlling online classes, run active learning tasks, dealing with distraction, no field trip due to travel restriction, and a drop in student engagement. Such issues have reminded educators that effective online learning can only happen when we are engaged, energetic, and focussed. Therefore, educators have to find the right tools to ensure online learning is conducted smoothly and interestingly.

Nearpod is the best solution to keep the lesson interactive and fun. The authors decided to use Nearpod in tourism subjects as it provides flexibility to the educator in delivering engaging online lessons at student-paced or educator-paced. By having Nearpod as a tool in delivering lectures, the authors find out that the student interactions are soared, and the students are motivated to participate in class even when there is a poor internet connection.

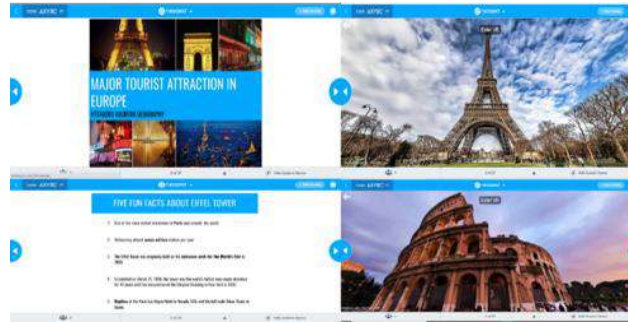
Content

Typically, educators will use normal PowerPoint presentation when delivering tourism lectures online. However, this slides presentation is viewed as boring and commonplace as it fails to capture students' interest or to excite them. But with Nearpod, educators are able to excite students. It allows educators to upload their presentations and add interactive activities to complement the learning experience in the online classroom. Following are some of the approaches commonly used by the authors:

i) Field trip (virtual reality)

The authors decided to use virtual field trip features in Nearpod as it allowed tourism students to travel to any place in the world virtually during the pandemic. Students can explore virtually the world-famous landmarks, wonders of the world, national monuments, world heritage sites, and many more, which complement the learning objective. During the VR Field Trip, students will be able to explore a 360 image of all tourist attraction on their own device. They can rotate around their devices and zoom the image to explore different tourist attraction with different angles.

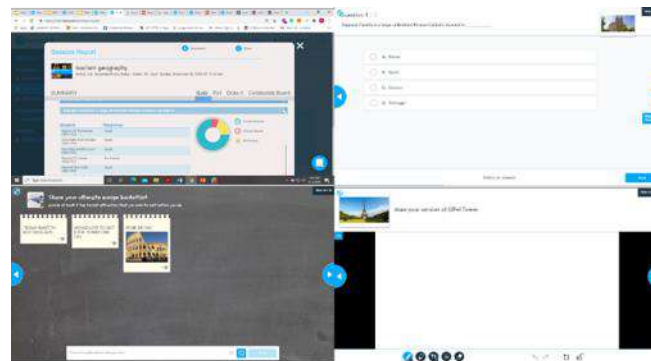
Figure: Examples of VR in HTS10203 (Tourism Geography)



ii) Interactive activities

Authors add activities such as real-time formative assessment in their lessons to test students' understanding of subject matters. Usually, authors will include quizzes, polls, fill-in-the-blank, matching pairs in their lessons. Sometimes, Authors also used features like "collaborate", where students can write virtual post-its about their thought on particular topic. To end the lesson, the authors will use a game to test students understanding of subject matters. Authors used this feature as it allows them to get real-time feedback and post-session reports. This instant feedback allows authors to identify and help students who have misconceptions on the subject matter quickly.

Figure: Interactive formative assessment used in HTS10203 Tourism Geography subject



iii) Commercial Value

Nearpod is not only suitable to be used in tourism subjects. But it can be shared as a great educational lesson in any kind of teaching and learning. It is suitable for any students' level, either they are in pre-school, primary school, secondary school, or tertiary level.

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