

PERINGKAT KEBANGSAAN 20

TITLE: ENVIRONMENTAL PROBLEM-BASED LEARNING VIA IFAMRES MINECRAFT

Introduction

IFAMRES Minecraft is invented as the initiative to instill knowledge and promote awareness to students. It's a framework which incorporates environmental problem-based learning (PBL) and Minecraft to facilitate English language learning. The use of Environmental problem-based learning is necessary to provide students with a proper platform and information while, the integration of digital games in education is not only educational but fun and engaging. IFAMRES is an acronym made up of the processes involve in the students' English language learning. It has 8 lesson plans that combine various Microsoft tools and Minecraft. It is useful for Instructors of other languages or other subjects to replicate the framework across disciplines

Problem Statement

Rising sea levels due to global warming, deforestation, and water pollution are the example of the issues that should concern all of us

Education has the power to change society. Thus, special attention needs to be placed on increasing the knowledge, enhancing awareness and inculcating a positive attitude and behaviour towards environment.

IFAMRES offers the 21st century learning design, where skills such as cooperative learning, critical thinking and problem solving are not only important for learning but also for future employability.

Scope



Objectives

- Increase knowledge
- Enhance awareness
- Inculcate attitude and behaviour

IFAMRES Minecraft processes

- | | |
|-----------|---------------------------------------|
| I | Information Searching |
| F | Finding Solution & Doing Presentation |
| A | Awareness |
| M | Minecraft Design |
| R | Reaching Community |
| ES | Experience Sharing |



Eight lesson plans that combine various Microsoft tools and Minecraft

Impact / outcome



Conclusion

To conclude, this innovation does not only aim to help students in their language learning but we hope to create a generation of good stewards of the fragile environment. We cannot force people to care but by instilling knowledge, fostering beliefs, and finding ways to take action, we can create a sense of responsibility, possibly even commitment in protecting the environment for a sustainable future.

Recognition & Publication

- Gold Medal, Carnival Research and Innovation 2019, Universiti Malaysia Kelantan
- Gold Medal, TELIC 2020, Universiti Malaysia Kelantan
- Intellectual Property (IP): LY201900449
- 4 Research Papers regarding the development of IFAMRES minecraft being presented & submitted to Journals

Group members

Nor Hanim Mustafa
Dr Nur Hafezah Hussein



21 & 22 Okt 2020
Pusat Inovasi Sains