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**SECP1513-06 TECHNOLOGY AND INFORMATION SYSTEM**

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## Introduction

The New Academic Learning Innovation (NALI) is a workshop that was introduced in 2018 to provide innovative teaching and learning practices for students. This is to improve the education environment so that students will have more interest during class lessons. It consists of materials that can attract the attention of students to let them focus more in class, a flexible learning process that can support online teaching and so on.

This time, NALI 2023 comes out with the theme: Resilience Education For Future-Oriented Quality Graduate. Resilience is the ability to overcome challenges and stress. This resilience education teaches skills for everyone such as problem solving methods and thinking positively when faced with challenges in different contexts like businesses and schools. This let everyone be more confident and reach their potential in order to solve the problems or challenges when they are facing it.



### Poster1:

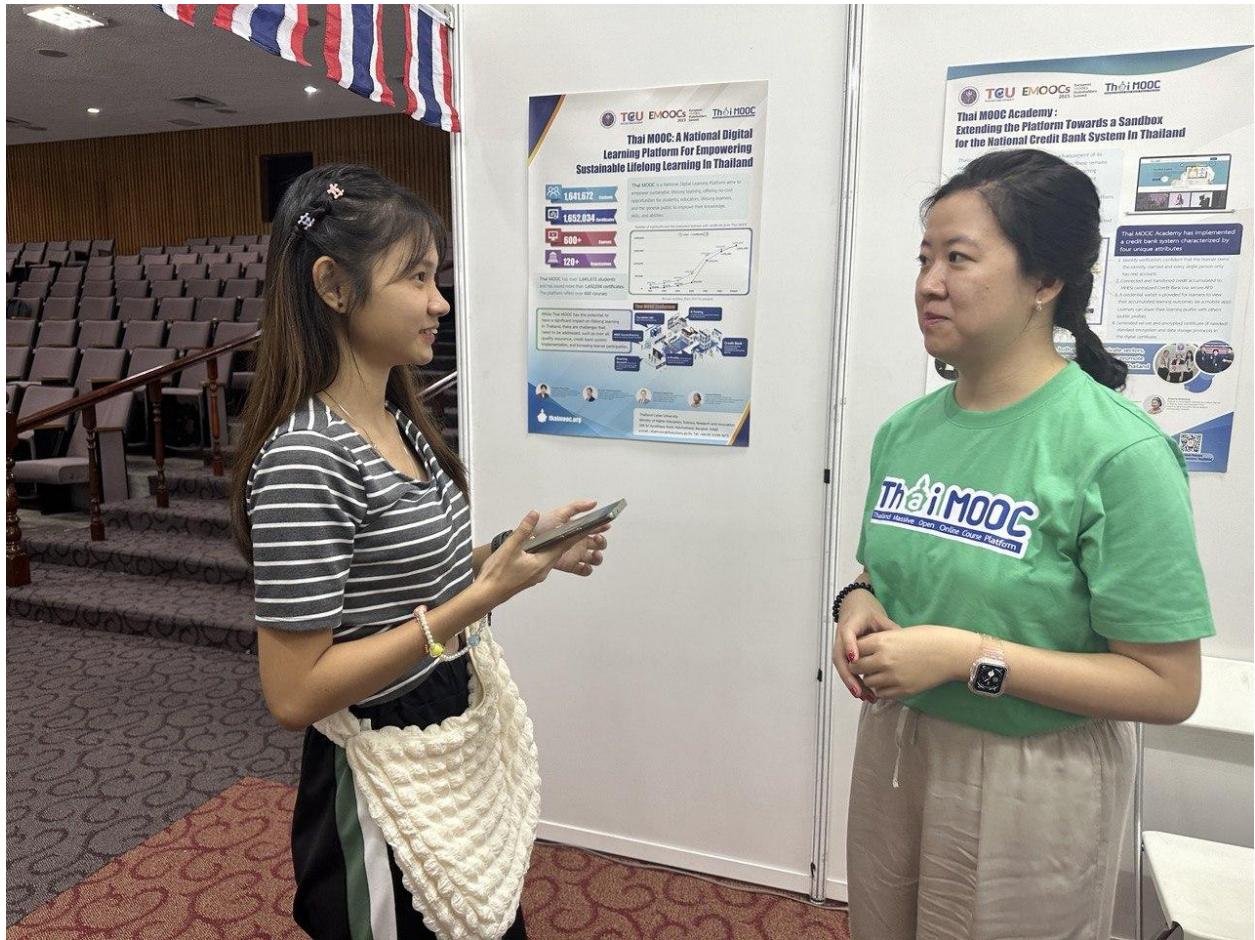
The poster "The Role of Augmented Reality (AR) Technology in English Classrooms to Improve Vocabulary and Motivation for Secondary School Students" states the challenges involved in using augmented reality techniques through the classroom. The poster had highlighted an important point which is that the benefits of implementing augmented reality (AR) in English classrooms vastly exceed the disadvantages. This is due to the reason, students will have more interest in learning English as English is required in addition to memorization for writing well-structured, grammatically correct essays. Otherwise, the traditional teaching method will let students feel bored during the lessons. The key to the issue is how AR technology can solve these problems and produce a more dynamic and interesting learning environment for students. The poster indicates that involving AR technology during the lessons can provide a platform to change the way students learn and make it enjoyable and interactive.

### **Reflection 1:**

I am very grateful for the opportunity to visit NALI 2023. As we shift toward modernization, technology had acts as a platform to help students in their learning. From the interview with the presenter i can have a deep understanding, the role of augmented reality (AR) technology in English classroom help to improve the vocabulary or motivation for secondary school students. This is because students now are too attached to their phone so teacher or educator have to find more innovative way to attract the attention of students so that they will focus more on their study.

The augmented reality technology use in the English classroom can separate into student client and teacher client. By using this technology teacher can upload the questions through online then the students may using this links to do online quiz.so that students have more understanding about the topic that teach today. Beside, the presenter also mention that nowadays teachers are trying hard to figure out a more interesting way of learning English rather than the traditional method which is examination. Since English is a language class, that have a lot of teaching materials that students have to memorize so AR method had give a very suitable platform for teacher to improve their teaching method. For example, educator may using website such as Kahoot, Quizzes to do online quiz during the class. After answering the question, students can know their result immediately without waiting for the teacher to mark it and they also can know at any point if their answer was right or wrong.

In a nutshell, the knowledge gained from the presenter's interview points out how augmented reality is impacting the way that helps students to learn the English language. This AR has provided a more effective and interesting learning environment as well as experience for secondary school students. As a result, this NALI 2023 event has given an idea and highlighted the role of technology in improving the education level of our country.



### Poster 2:

In the Nali 2023 event, one of the posters that attracted me the most was "Online Education by Thai Mooc." The objective of this Thai-Mooc education is about the organization. Their achievement is how many students have studied in their course and how the platform works when the students are registered. Another highlight is the overall credit a student can get from studying in these Thai Mooc courses and the partnership with overseas universities. For Thai Mooc education, it is an online learning experience. So, all the people from different countries can join it everywhere and every time. This Thai mood has let us enhance our skills at work. Hence, people will have more experience when they are working after their Thai Mooc education. This Thai Mooc education also highlighted the ways that ICT is used for teaching and learning. Therefore, students can better understand and have more interest in this because they can join whenever they are free.

## **Reflection 2:**

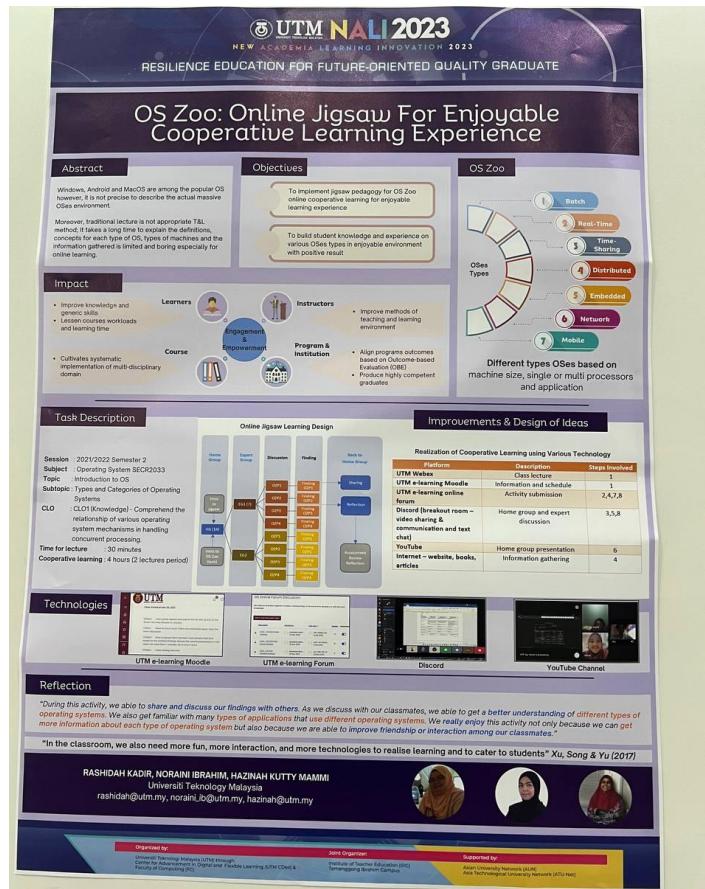
I am very happy and amazed to attend this NALI 2023 event. This is because I gained a lot of knowledge about teaching and learning skills in the ICT field. As a student, this allowed me to be more focused and learn how to get a better understanding of the material in class. I interviewed the organization or the middle person of Thai Mooc education at this event. ThaiMooc is a platform that offers free and open online learning to all people in all countries. It is also under the ministry of higher education, which means Thai Mooc was funded by the government, and they funded the university to create the courses.

Thai Mooc education can be accessed, and it is free and open to all people, despite their ages, to promote lifelong learning. It is not only students in school or in universities who can register for these Thai Mooc courses. Everyone of different ages and countries can join it. For example, we can shift toward that field by studying these free courses and online courses if we want to change the field or work.

Besides, they can use their free time to learn or join this Thai Mooc education because Thai Mooc has given their students access to watch their recorded video. They can also make friends with other countries because Thai Mooc education involves all the nations or countries that are learning at the same time. Although the lecturer is using Thai to teach, the recorded video has English subtitles so that other people can learn easily and understand.

However, students who join this Thai Mooc education must spend more effort studying it. Since this Thai Mooc education is an online learning method, it is hard to discipline yourself to pay attention and focus on learning online. Therefore, the most challenging thing for Thai Mooc education is how to attract the attention of students and how to raise awareness that learning can be flexible, and it is not only the teacher teaching you the knowledge; it can also teach students how to stimulate their learning skills by creating activities like discussions.

In short, Thai Mooc education brings a lot of advantages to everyone, especially students in the ICT field. This is because it lets students learn something outside of their knowledge that they learn in the class by using their free time. Thai Mooc is not only good for study; it is also good for a career.



### Poster 3:

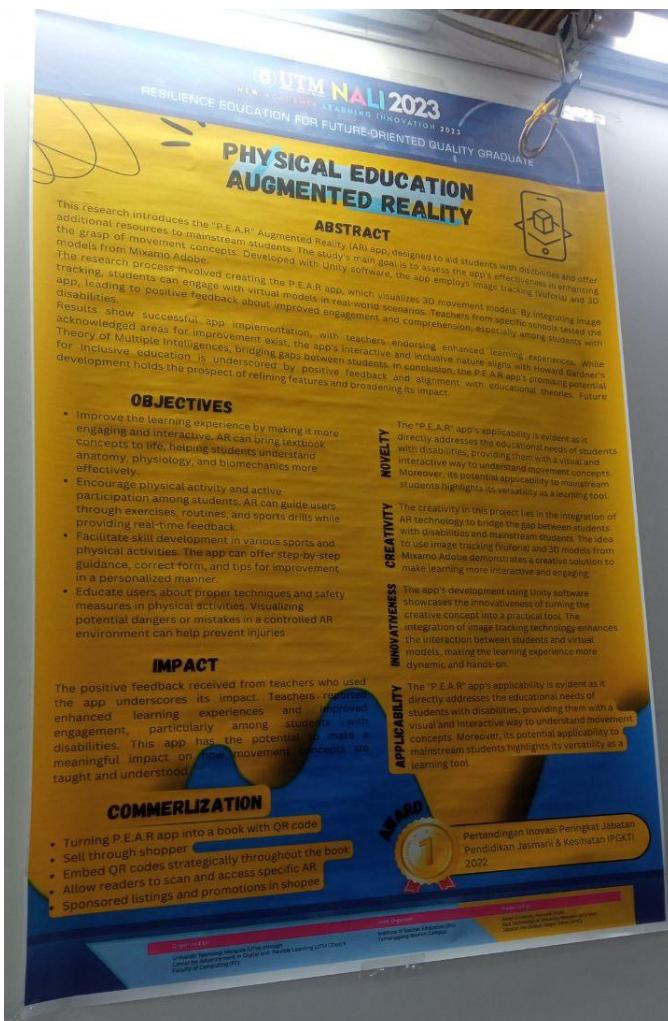
The poster “OS Zoo: Online Jigsaw For Enjoyable Cooperative Learning Experience” is about learning Operating Systems using a method called Online Jigsaw Learning. The main idea of OS Zoo is to allow students to gain more experience in this cooperative learning and enjoy interacting with each other while learning Operating System subjects. The poster highlighted the design of Online Jigsaw Learning which explains how the process of this learning takes place so that it can be more interesting for students to learn the subject. Other than that, the poster showed the different types of OSes based on machine size, single or multiprocessors that can be obtained by the students through this OS Zoo. This OS Zoo uses various types of technology platforms for the process of learning. For example, OS Zoo used UTM e-Learning Moodle to share the subject information and class schedule, UTM Webex for the lecture sessions, Discord platform to do expert discussion between group members, YouTube platform for performing group presentations and many more technology platforms. Thus, OS Zoo can give a lot of positive

impact to all the learners and instructors so that they can improve the process of teaching and learning to be more happening and interesting. The poster also highlighted that OS Zoo will improve the program and institutional performance by increasing the number of highly competent graduates.

### **Reflection 3:**

To be honest, I had an amazing time visiting NALI 2023. Throughout this program, I learned a lot about ICT and gained a lot of experience. One of the posters from the event had caught my interest as it introduces the use of operating systems (OS) to all students through learning activities. From the poster, students can learn the different types of operating systems, their applications and their aspects through an interesting activity which is Online Jigsaw Learning (OS Zoo). This activity also promotes online cooperative learning which means students can work together in their group to achieve the main goals which is learning OS. Nowadays, the learning environment must be creative, more fun, interactive and technology-based learning so that students can be more excited in learning. I can say that this poster is really good because the online jigsaw learning provides the interaction and technology-based learning experience that can be used to teach the students about the OS.

All in all, I am really impressed with the poster as it provides an effective and engaging way to teach students about OS in a cooperative learning environment. This is an important discovery because it gives educators a new tool for teaching this essential subject. Additionally, students can enhance their friendships and communication skills with each other.



### Poster 4:

The poster “Physical Education Augmented Reality” is about enhancing learning by using the “PEAR” augmented reality (AR) app, this is designed to aid students with disabilities and offer additional resources to mainstream students. The study’s main goal is to assess the app’s effectiveness in enhancing the grasp of movement concepts. The app was developed with unity software, the app employ’s image tracking and 3D model from mixamo adobe. Based on their idea to make it more effective using this method they can gain the objective of their project. Objective of this project:

- improving the learning experience, AR can bring textbooks concepts to life
- encourage physical activity and active participation among students.AR can guide us using exercise while providing real time feedback

- facilitate skill development, the app can offer guidance.
- educate student about proper technique and safety measure in physical activity, visualizing potential dangers or mistakes during exercise to decrease the number of injuries

Therefore , many students are interested because it can be very useful in the future.

#### **Reflection 4:**

After attending the NALI event, I gained lots of information and knowledge about innovation and technologies. At that time I was looking for any innovation that would make me interested, and I found innovative teaching methods using AR. “Physical Education Augmented Reality” is the tagline that makes me interested. I did my interview with the presenter of the AR booth. It's quite interesting. I feel like wow that's cool, Objective of this booth is to improve the learning experience, make it more engaging and interactive, encourage physical activity, and facilitate skill development using AR.

PEAR “Physical Education Augmented Reality” has many objectives that they want to reach, such as improving learning experience, skill development, encouraging physical activities and many more, using this method students have more interest in it. Why? Because using the AR physical method, it feels like you are playing a game but at the same time you gained the knowledge.

In conclusion, although this method is still in development, we can support this innovation to improve learning knowledge that can be very useful to the student in the future.



## Poster 5:

The poster named “Navigate X: Maze For All” made by students from Teachers Education Campus Temenggong Ibrahim Johor Bahru is an innovative maze game, helps diverse students from traditional teaching that can be tough for students with attention deficit hyperactivity disorder (ADHD). In pairs, students navigate maps with hidden spots, balancing a ping pong ball with strings and giving directions. 90% found it easy to use in inclusive classrooms, with one side of the maze easier for special needs students and the other side more challenging for regular students. This innovation also transforms a game into an interactive learning experience, within an educational context and also approaches blended learning. It enhances student engagement, encourages collaboration, critical thinking, and adaptability and also aims to nurture responsible, empathetic citizens capable of positively impacting their communities.

This poster has also won an award in New Pedagogies for Deep Learning (NPDL) showcase at Teachers Education Campus Temenggong Ibrahim Johor Bahru with ‘A’ grade as result.

### Reflection 5:



That day I was looking for sources to interview, but I was interested in this booth after seeing the learning tools they made. This tool is a tool for learning with new and unique innovations. Students will get challenges from this tool which must be completed. After that, on the side of the tool, they will get a prize or reward that they can collect themselves. Therefore, students will not get bored easily and be lazy. On the contrary, students will get the satisfaction and addiction of learning this method. Such as the positive impact that has been mentioned on the poster, it enhances student engagement, encourages collaboration, critical thinking, and adaptability.

In my opinion, with all features and benefits of learning with this method, I am personally very interested in trying it because this method is very interesting and fun to try.

## **Conclusion**

Students can enhance extra knowledge when visiting this NALI 2023 event. For example, students will gain some techniques when studying, especially in the ICT field. This makes students more concentrated on their study and more understand the learning outcome before their lecturer starts their lesson. By joining this NALI 2023 event, students will have ideas of learning skills when studying. This event teaches many ways of learning skills for students and provides many techniques to let students more understand their study. For instance, students can join the Kahoot which is created by their lecturers after they finish studying one chapter. This not only can test the understanding of the students, students also can more remember what the topic is and the knowledge that is taught by their lecturer in class.

In addition, this activity is impactful to our group members as we can learn more about the role of technology that is provided to students during their journey of learning. This activity also lets us have an opportunity to explore more about the current situation or the growth of the technology. This NALI 2023 event is providing us with an exciting and interesting experience. This is because all of our group members are first-year students and this is the first time we have the chance to conduct an industry visit for an assignment. The interview sessions help us a lot so that we may train our courage while we are talking to the presenter as we have to prepare the questions to ask. During the preparation process, we will have a better understanding about this event, so that we may ask more relevant questions that are related to the NALI event to the presenter.

Youtube Link For Interview

Name	Link
LEW SHU BEI	<a href="https://youtu.be/Ej1sekqHNzY">https://youtu.be/Ej1sekqHNzY</a>
TAN SHEAU JUN	<a href="https://youtu.be/WodKAg_ZHNE">https://youtu.be/WodKAg_ZHNE</a>
SITI NUR FATHIYYAH BINTI MARZUKEE	<a href="https://youtu.be/OfMKGyAp5Bk">https://youtu.be/OfMKGyAp5Bk</a>
AFLAKH RASIKH IBADURRAHMAN	<a href="https://youtu.be/fbps1FWpBE?feature=shared">https://youtu.be/fbps1FWpBE?feature=shared</a>
HUMAIRA SHEYLA NURFAYZA	<a href="https://youtu.be/NOe8bZYLTC?si=FISWd86d4EUmK0_O">https://youtu.be/NOe8bZYLTC?si=FISWd86d4EUmK0_O</a>