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ASSIGNMENT 1

REPORT ON VISIT TO NEW ACADEMIA LEARNING INNOVATION (NALI 2023)
ON 7th AND 8th NOVEMBER 2023

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ABSTRACT

This report offers a thorough overview of the insightful visit to New Academia Learning Innovation (NALI) on the 7th and 8th November 2023. This conference is to promote innovative teaching and learning practices in education. It includes tools for achieving entrepreneurial academia that is focused on the needs of the learner, and a variety of learning modalities.

The report outlines the key highlights of the visit, including discussion and Q&A session with educators from different booths about Information and Communication Technology (ICT) in teaching and learning. Insights from discussions with the educators was able to help us in gaining various perspectives on this subject. The goal of this documentation is to promote discussions on the revolutionary possibilities of learning innovations in the field of education.

INTRODUCTION



The New Academia Learning Innovation (NALI) 2023 exhibition at Malaysia's University of Technology (UTM) was an educational experience that helped to provide an immersive learning platform for everyone. This report explores 5 booths that were held during NALI's exhibition that highlights the role of Information and communications technology (ICT) as a dynamic learning environment at UTM. The exhibition provided hands-on experiences with cutting-edge technologies, promoting a better understanding of their applications. For the 5 booths that were chosen, we have held an interview session to dive deeper about the learning innovation that was implemented. The interview is conducted by our team member and the booth speaker. As a result, we get to learn about the booth with an interactive environment.

The interview session video : <https://youtu.be/jR2kJM9nrzw?si=G273II3w9wuPWl6C>

EXPLANATION ON EACH POSTER

BOOTH 1



This visually striking and informative poster aimed to explore and assess the effectiveness of using OpenAI's ChatGPT as a tool to help students in developing multiple-choice questions (MCQs). ChatGPT is recognized for its proficiency in diverse applications, from answering queries to simulating human-like conversations. Its educational potential is still mainly unrealized by many people. The use of ChatGPT in the MCQ creation process is an innovative endeavor.

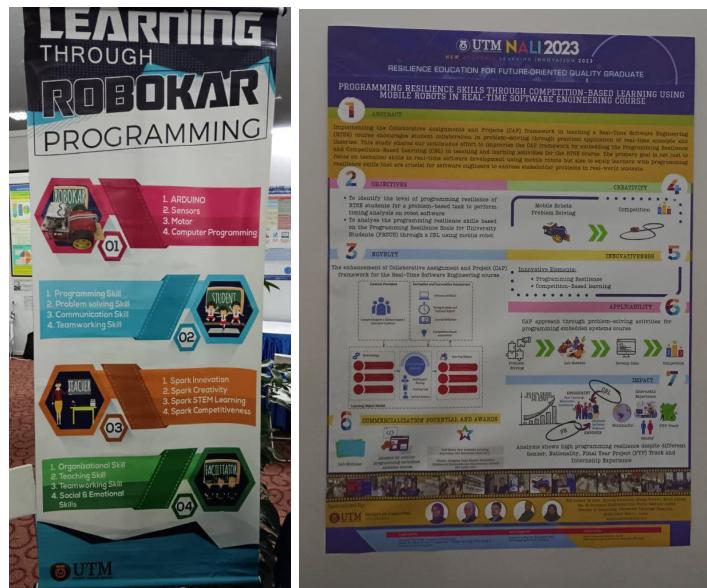
The methodology that we must follow to generate relevant and accurate MCQs is that we should clearly define the educational objectives or learning outcomes that the MCQs aim to assess. For instance, we ought to indicate the subject matter and degree of difficulty of a question. Next, initiate a conversation with ChatGPT to provide context about the topic we specified and give the outcome in the form of MCQs. Thirdly, even though ChatGPT is used as a collaborator, we should still review the assessment items with a panel of experts who are knowledgeable in the subject matter covered by the MCQs to gather feedback. Finding out how

students perceive the material is the final step in identifying problems with wording or difficulty level. We can contribute to a thorough and useful assessment tool by following these steps.

The poster claims that applying Artificial Intelligence (AI) to education is a quicker approach that produces superior outcomes than conventional methods. AI-human collaboration supports varied learning styles and resources that align with New Academia Learning Innovation (NALI)'s mission, which is promoting a flexible and modern educational setting. Notably, the poster makes the case that ChatGPT, an example of AI, has the power to completely transform how people interact with computers.

The incorporation of ChatGPT in Information and Communication Technology (ICT) applications can contribute to more natural and efficient exchanges between users and technology. This realization is essential for shaping how user experiences change in the ICT space. The poster serves as proof of the vital role Artificial Intelligence (AI) can play in ushering in a new era of educational technology that students can use to finish their assignments.

BOOTH 2



Robokar programming, one of the fields that escalated rapidly each year. The combination of expertise in computer science, artificial intelligence, control systems and robotics. Fully equipped in both hardware and software components which include the use of Arduino and also computer programming. The existence of this is driven by the advancement of technologies, economic benefits and to increase mobility access. The combination of creativity, innovation and competitiveness offer a chance to students in learning and understanding until they go beyond typical technical skills that implement programming resilience and Competition-Based Learning (CBL).

By implementing the collaborative Assignments and Projects (CAP) framework in teaching a Real-Time Software Engineering (RTSE) course encourages student collaboration in problem-solving through practical application of real-time concepts and theories. This study shares our continuous effort to improvise the CAP framework by embedding the Programming resilience and Competition-Based Learning (CBL) in teaching and learning activities for the RTSE course. The primary goal is not just to focus on technical skills in real-time software development using mobile robots but also to equip learners with programming resilience skills that are crucial for software engineers to address stakeholder problems in real-world contexts.

This well-informed poster aims to identify the level of programming resilience of RTSE students for a problem-based task to perform timing analysis on robot software and also includes to analyze the programming resilience skills based on the Programming Resilience Scale for University Students (PRSUS) through a CBL using mobile robot.

In nutshell, by making sure the students adapt and overcome the unpredictable challenge of the real world in the future by using the programming resilience scale shows that robocar programming falls within the purview of ICT.

BOOTH 3



Massive Open Online Courses, known as MOOC, are online programs designed for broad internet accessibility and a focus on widespread participation. They emerged in response to the growing demand for accessible and adaptable learning environments. Key features of MOOC include scalability, allowing for enrollment of tens of thousands of participants simultaneously. Open access, enabling anyone with an internet connection to join with minimal enrollment requirements. Diverse content, covering subjects ranging from humanities and social sciences to computer science and mathematics. Interactive learning, incorporating features like discussion boards, quizzes, and peer evaluations to enhance the learning experience and flexibility, allowing learners to progress at their own pace.

Micro-credentials, concise and specialized learning units, signify proficiency in a specific subject or skill and are commonly utilized to validate academic achievements. Attainment of micro-credentials often involves completing specific activities, tests, or projects, and they can take the form of badges, certificates, or digital credentials. Notable characteristics of micro-credentials encompass their precision in targeting specific skills or knowledge, offering learners the ability to tailor their learning paths according to individual interests and professional

goals. These achievements are tangibly recognized through micro-credentials, which can be showcased on resumes, LinkedIn profiles, and various online platforms.

MOOC Micro-Credentials occur when MOOC providers grant participants the option to earn micro-credentials upon the successful completion of specific courses or modules within the MOOC. This integration brings together the realms of MOOCs and micro-credentials, allowing learners to receive more targeted and detailed recognition for their knowledge and skills.

The significance of MOOC micro-credentials lies in their ability to enable individuals to acquire specific skills without committing to a full degree program, making them particularly valuable for lifelong learning and professional development. Furthermore, these micro-credentials provide employers with a practical means of identifying candidates who possess specific, verified competencies.

Massive Open Online Courses (MOOC) provide open access to a diverse array of subjects, catering to large-scale participation. Featuring interactive elements like discussion boards and quizzes, MOOC enables users to learn autonomously. On the other hand, micro-credentials represent condensed learning units that validate expertise in specific skills or subject areas, often represented as badges or certificates. The convergence of these concepts occurs when MOOC providers confer micro-credentials upon completion of specific courses or modules within their programs. This amalgamation allows students to receive targeted recognition for distinct skills, offering a more nuanced and adaptable approach to education. MOOC micro-credentials play a pivotal role in professional development, affording students the opportunity to showcase and acquire specific competencies in a dynamic job market.

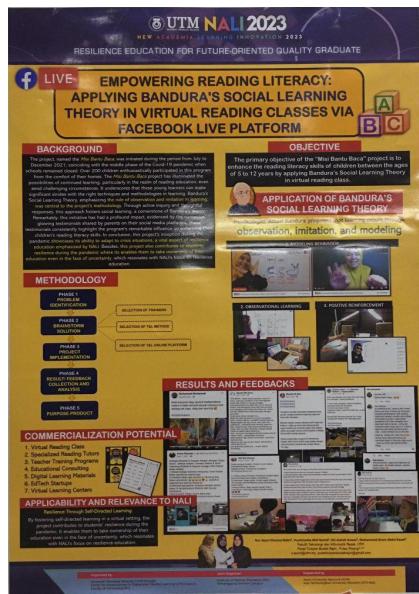
In summary, MOOC micro-credentials present a convenient and adaptable learning approach, empowering individuals to acquire and showcase particular skills in a rapidly evolving job market.

Apart from that, a virtual lab. A UTM virtual lab is likely indicative of a simulated setting or digital platform created by the UTM with the intent of facilitating educational and research

activities. Within this virtual lab, a broad range of disciplines can be accommodated, providing students and researchers with the chance to participate in hands-on learning, experiments, and simulations pertaining to technology, science, or other fields aligned with the university's academic emphasis. These virtual labs function as practical instruments, enabling students to apply theoretical knowledge within a controlled online context, thereby enriching their comprehension of diverse subjects.

In summary, the UTM virtual lab epitomizes an innovative and dynamic approach to education and research. Through the strategic utilization of digital platforms and simulations, the university adeptly delivers practical, hands-on experiences to both students and researchers within a controlled online setting. Serving as a valuable tool, this virtual lab effectively bridges the gap between theoretical knowledge and real-world applications, nurturing a profound understanding of diverse subjects. Whether applied to technology, science, or other academic disciplines, the UTM virtual lab stands out for its scalability, flexibility, and accessibility, tailored to meet the evolving requirements of a dynamic learning environment. In essence, it underscores the university's unwavering commitment to advancing education through state-of-the-art technologies and immersive, interactive learning opportunities.

BOOTH 4



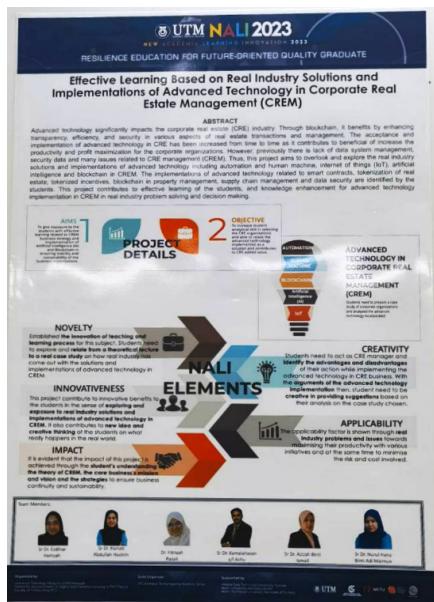
This poster which focuses on applying Bandura's social learning theory in virtual reading classes via Facebook live platform is closely integrated to Information and Communication Technology (ICT). Technology is used to improve educational experiences as part of the integration of ICT in learning and teaching. In this case, the Facebook Live platform acts as a technological aid to make reading classes easier.

Since the rate for illiteracy of a student was very high during the Covid-19 pandemic, the project “Misi Bantu Baca” decided to create this method to help the struggling students. Its objective is to enhance the reading literacy skills of childrens by applying Bandura's social learning theory. This theory occurs through observation, implementation and modeling.

Based on the interview with one of the participants, this method not only enhances the interactivity of students and offers time flexibility, it is also in line with broader trends in education technology. Therefore, we can say that its integration into educational practices shows a forward-thinking attitude that is consistent with how modern learning approaches are developing.

Essentially, the poster shows how Bandura's social learning theory and the revolutionary role that ICT serves in modern teaching and learning practices perform together. Thus, this poster is closely related to ICT in teaching and learning.

BOOTH 5



This poster shows effective learning based on real industry solutions and implementations of advanced technology in Corporate Real Estate Management(CREM). Corporate Real Estate Management (CREM) is a program that involves helpful management of an organization's real estate assets to align with its overall objectives. In the fast evolving learning environment, the integration of NALI elements into CREM is essential. This introduction includes the dynamic intersection of CREM and NALI ,its advantages and why it has an important role in creating innovative, adaptive and conducive spaces for students to learn.

This project aims to overlook and let students explore the real industry solutions and implementations of advanced technology. This includes automations, human machines, internet of things(iot) , artificial intelligence and blockchain in CREM. The implementation mentioned is related to smart contracts, tokenization of real estate, tokenized incentives , blockchain in property management, supply chain management and data security are identified by the students. This project also contributes to effective learning of the students, and knowledge enhancement for advanced technology implementation in CREM in real industry problem solving and decision making.

Besides that, CREM also aims to increase student analytical skill in selecting the corporate real estate organizations and be able to relate the advanced technology implementation as a solution and contribute to corporate real estate added value.

NALI places a strong emphasis on designing flexible environments that support cooperative learning. Within the context of CREM, the plan is to strategically evaluate real estate holdings to make sure the student can offer collaborative workspaces, adaptable, tech-enabled classrooms, and areas that support cohesive learning. To improve the entire learning experience, educational institutions must align with the principles of NALI. Not only that, the integration of technology in CREM also supports initiatives such as smart classrooms, interactive learning spaces and virtual learning environments. CREM professionals can collaborate with educational stakeholders to ensure that real estate assets are equipped with the necessary technology to facilitate innovative teaching methods and student engagement.

Overall, the implementation of CREM and NALI represents a transformative approach in creating a dynamic and fun student-centric learning environment. CREM definitely is a big approach for students who are knowledgeable with ICT tools and it will be a helpful skill for IT students as it will help students explore the real industry solutions thus opening up a larger career choice. It is evidence that the impact of this project is achieved through the student's understanding of the theory of CREM.

REFLECTION

BOOTH 1

TITLE: *An Exploration of ChatGPT's Role in Assisting Students with Multiple Choice Question Items Development.*

During the visit to a ChatGPT-focused booth at NALI 2023, I believe that ChatGPT is genuinely beneficial to students and is a major factor in supporting their academic progress. One of the primary benefits is that it improves student learning and skill development. Students receive important insights on how to enhance their questions by asking ChatGPT to create a multiple-choice question. They get to learn from their mistakes and correct them. Next, students get to engage and motivate themselves to actively participate in the NALI exhibition to gain more information and knowledge about the things technology can do for us all in the future. The collaborative aspect of the student-ChatGPT interaction is another significant advantage. This is because students can work seamlessly with technology to accomplish their educational goals.

The involvement of ChatGPT in student activities holds significant implications for the overall outcome of the course or subject. For example, it provides an enhanced understanding of course content. To be specific, the process of crafting multiple-choice questions (MCQs) with ChatGPT requires students to delve deeper into the subject matter, where they are not only consumers of information but active contributors to the educational process. In addition, students are more motivated to complete their assignments because of the interactive aspect of working with ChatGPT, which brings excitement to the learning process.

Engaging in the activity of developing multiple-choice question items with ChatGPT during the NALI exhibition has been a highly impactful learning experience for me. First and foremost, using ChatGPT to create multiple-choice questions (MCQs) sharpens my critical thinking skills. I can now analyze complex ideas more effectively, and my questions are verified by lecturers to ensure relevance. In addition, I learned how crucial it is to paraphrase information from ChatGPT to avoid plagiarism when completing my assignments. Besides that, I also learned that we should not trust information given by ChatGPT 100% because the information

might be outdated or not relevant. Hence, going through expert validation is crucial for students to ensure the facts about a certain subject.

The activity has certainly sparked excitement for me as a student because I get to learn about the concept and uses of technology applied to a language model called ChatGPT. My curiosity was ignited when I witnessed how ChatGPT gives out information we asked at the speed of light. Besides, I think students will be interested in trying to communicate with ChatGPT to see the responses or check how reliable it is.

By attending the NALI 2023 exhibition and conducting an interview, it has led me to a better understanding of the course material. Interacting with exhibits, including the ChatGPT booth, and talking with professionals offered a hands-on experience that goes beyond traditional classroom settings. This practical aspect improved my understanding of the subject matter. Engaging in interview sessions provided opportunities for networking and peer learning. I also got to enhance my communication skills with professionals and gain confidence in speaking out. Presenting questions, articulating thoughts, and actively participating in discussions during the sessions honed my ability to communicate complex ideas clearly, an essential skill applicable to various aspects of the course material.

BOOTH 2

Title: *Programming Resilience Skills Through Competition-Based Learning Using Mobile Robots In Real-Time Software Engineering Course*

Through my observation of NALI 2023 conferences, I believe robocar programming gives various benefits to the students. One of the major benefits is problem-solving and critical thinking. By exposure to the complexity of programming autonomous robocar help students indulge themselves into problem-solving and critical thinking skills. Designing an algorithm, movement, sensor and obstacle are the tasks which can challenge and improve students to think beyond their usual or we phrase it as ‘thinking outside the box’.

The impact of the robocar programming on the outcome of the courses is profound. These activities construct the future generation with qualified skills, insights and open mindsets which is necessary in the field of technology and information systems. By providing students with full practical, real-world applications which expose students to emerging technologies and lead to enhance the students career readiness in technology and information systems.

From these opportunities in engaging in robocar programming activities certainly give different kinds of aftermath for me which I acquire valuable insights and some skills. Skills that can be gained include computer vision, sensor fusion, innovation and problem solving and interdisciplinary collaboration. In participating these activities indeed can improve conception of algorithms and sensor integration of which are critical to the invention of robocar. Habitually, encountering various challenges beyond doubt would make an individual repeatedly process and analyze until they reach the understanding which can stimulate their mind to a greater extent.

These activities certainly spark an excitement towards students into boldly engaging in an abundance of challenges and including trying hands-on experience. While most domains are full of complexity, it still can stimulate curious students to solve, count, build and create their autonomous vehicle that involves artificial intelligence, machine learning and robotics.

Before associating with NALI 2023, only fundamental knowledge was sufficient enough for me however after attending the NALI 2023, there is a variety of research in a profusion of specific industry and field of study which gave me undivided attention and curiosity with the information that being displayed in front of me. While this can enhance my understanding of course material and distribute unlimited perspectives, I also get real-world insights and getting involved with current trends and technologies. In summary, participating in interview sessions at NALI 2023 gave varieties of learning experience and skills that go beyond the ordinary coursework.

BOOTH 3

TITLE: *MOOC and Micro-Credential*

Interested to Join Us To Develop Your Own Virtual Lab

Upon reflection during the NALI 2023 conference, I am inclined to believe that the strategy proposed by the poster is advantageous for students. Engaging in MOOCs, Micro Credentials, and Virtual Lab activities offers significant advantages for students. These activities, emphasizing practical, hands-on experiences, empower students to apply theoretical concepts in real-world scenarios. Virtual labs, for instance, create simulated environments for experiments, contributing to an enriched learning experience. Specialization and skill development are facilitated through MOOC activities and Micro Credentials, enhancing students' professional growth.

The impact of these exercises on the outcome of a course or subject is substantial. Students deepen their understanding of course material and fortify theoretical knowledge through practical exercises, such as those provided by virtual labs. Micro Credentials, obtained by completing specific tasks or courses, underscore a student's proficiency, bolstering credentials in a specific field. Overall, these exercises cultivate a more comprehensive and employable skill set, positively influencing the overall learning outcome.

Participation in activities related to MOOCs, Micro Credentials, and Virtual Labs consistently equips students with valuable and applicable skills. The intent behind these activities is to furnish practical experiences, enabling students to acquire skills applicable in real-life situations. Various means, including completing assignments, earning a Micro Credential, or conducting experiments in a virtual lab, provide opportunities for gaining insights that transcend theoretical understanding. Such practical experiences enhance the learning journey, making it more relevant and valuable.

These activities routinely stimulate students' curiosity and excitement. The interactive and practical features of Virtual Labs, Micro Credentials, and MOOCs enhance the learning

process. The chance to apply knowledge in real-world settings and engage in hands-on experiences proves to be both stimulating and motivating for students. Recognition achieved through obtaining a Micro Credential or successfully completing online lab exercises serves to boost students' self-esteem and enthusiasm for the subject. Collectively, these exercises contribute to a captivating and dynamic learning environment that captivates students' interests.

The experience of attending NALI 2023 and participating in interview sessions has undeniably contributed to a better understanding of the course material. Exposure to industry professionals and real-world applications of covered concepts has provided practical insights that complement theoretical knowledge. This exposure has proven instrumental in bridging the gap between academic understanding and real-world implementation, enhancing the overall learning journey.

BOOTH 4

TITLE: *Empowering Reading Literacy: Applying Bandura's Social Learning Theory In Virtual Reading Classes Via Facebook Live Platform*

Considering my reflection during the NALI 2023 conference, the method that was suggested in the poster gives benefits to students. This is due to the fact that the theory highlights the importance of role models. Positive role models who exhibit desirable attitudes and behaviors can be beneficial to students. This behavior modeling helps the development of positive traits and skills in the students as well as their own behavior. Other than that, this theory also offers adaptability and flexibility to students. According to the theory, our interactions with others and the things we observe can have an impact on our learning. Students in technology-enabled online classes have access to a variety of learning resources. Therefore, they are able to modify their education to suit their individual needs.

Moreover, applying Bandura's social learning theory can influence our subject's outcome in a positive way. This is due to the fact that this approach has the potential to raise student interest in the topic. My understanding of this subject is that when material is presented in an interactive, social learning environment, students are likely to be more engaged with it. For instance, integrating Facebook Live into a lesson plan can increase students' engagement and interest. Furthermore, because this approach fits with the contents of our subject, it has an effect on the end outcome as well. If this theory is applied to our subject, then classes will be delivered virtually via a technological platform. The students will then benefit from this as they naturally grow and improve their abilities in using technology for communication and learning.

Furthermore, what I learned through the application of Bandura's social learning theory in virtual reading classes via platforms like Facebook Live is that students can acquire practical skills for using technology for learning and communication in addition to the technical aspects of Technology and Communication Systems. This can then improve their overall level of digital knowledge in order to better equip them for the challenges of the modern world.

In my opinion, Bandura's social learning theory will surely spark interest in students. This is because the use of technology in conjunction with the method's collaborative and interactive

elements can enhance the learning experience to be more dynamic and engaging for the fellow students.

To wrap up my reflections on the tour to NALI 2023 conference and the interview sessions, I believe that they greatly contribute to our comprehension of the course material. The exposure to trends and innovations is the cause of this. The NALI 2023 conference features the most latest innovations and trends in the industry. As a result, we are able to learn about new technological advancements and industry developments by giving their course material a real-world setting. Other than that, this tour has also inspired and motivated us due to the exposure to successful projects, case studies, and professionals in the field. Seeing how the ideas they are learning are applied in real-world situations has inspired us with a feeling of purpose and enthusiasm for the material. Finally, but just as importantly, we were introduced to interactive learning during our visit to NALI 2023. Interviews and interactive sessions have provided us with an alternative and engaging learning format. We had the opportunity to ask questions, take part in discussions, and learn more about different points of view, all of which made the learning process more engaging and dynamic.

BOOTH 5

TITLE: *Effective learning based on real industry solutions and implementations of advanced technologies in Corporate Real Estate Management (CREM)*

After my visit to the NALI 2023 conference and a thorough observation , I believe that the implementation of CREM offers a lot of benefits to students, such as myself. The reasons are that CREM encourages strategic design and management of educational spaces for students. This will help students experience a more engaging and effective learning environment. Well-designed spaces can help the student to gain a lot of useful experience in not a boring way. This also impacts on the student's physical and mental health by creating a conducive learning environment. Most importantly, CREM emphasizes agility and adaptability in real estate strategies. This means that the learning process can easily be changed to meet our current syllabus and technological advancements. This adaptability will ensure that the learning environment stays relevant and responsive to the needs of students.

Corporate Real Estate Management (CREM) can have a significant impact on the outcome of the subject, TIS. This is because of the overall student experience in the learning environment. Firstly, having state-of-the-art computer labs and well-equipped classrooms enhance the learning experience in applying theoretical concepts in practical settings. Secondly, CREM can facilitate industry-standard simulation labs for the courses. These labs provide students with a lot of opportunities to solve real-world IT challenges. Furthermore, CREM initiatives may extend to create more industry collaboration and networking. This may result in partnerships with technology companies, offering students worthy opportunities for internships, mentorship programs and exposure to IT projects.

I have learned a lot of impactful information from the CREM project. For example, the final year students are able to experience first hand the real-world working environment. This will definitely help in the making of their portfolio and allow them to get more job opportunities in the future. Not only it motivates me to join the program, it will definitely help with my IT courses and knowledge in the future. It goes beyond the physical management of spaces to

influence the quality of technological infrastructure, collaborative opportunities, and the overall learning environment. This project will definitely help students to prepare in the future IT industry.

In my opinion, CREM has definitely sparked excitement in the students. The impact of CREM activities on student excitement is tied to the innovative , engaging and exciting program. The activities really rely on making the subject matter relevant, interactive and connected to real-world applications. When the students can see the impact of CREM on their future careers and experience, they will mostly be enthusiastic to learn.

I can confidently say that visiting NALI 2023 and doing the interview sessions help me learn more about the course material. Not only am I able to learn about the other ICT tools and programs , I have been able to learn more about CREM and their implementations. This has helped me gain more insight and a clearer understanding of the course and helped me gain motivation in pursuing a career in IT. For example, CREM has taught me the necessary skills to obtain before I embark in real-life industry work. As a result, A well-executed CREM strategy can contribute to the success of TIS students by providing them with the tools, experiences, and environments needed to excel in the dynamic field of Technology Information Systems. That is why visiting the NALI 2023 conference has helped me explore a lot of valuable information. The interview and interactive session also help me and my friends in understanding the context easier. Thus, all of the experience makes me more engaged and interested in the course material.

CONCLUSION

The visit to the New Academia Learning Innovation (NALI) 2023 conference proved to be an invaluable experience, greatly enriching our understanding of the Technology and Information Systems course. The networking opportunities allowed us to connect with industry professionals, gaining practical insights and inspiration for our academic journey. Witnessing the application of theoretical knowledge in real-world scenarios through interactive sessions provided a deeper understanding and motivation for our coursework. The conference not only enhanced our comprehension of the subject matter but also instilled a sense of passion and purpose, reinforcing the importance of keeping up with advancements in the rapidly changing field of technology. This learning opportunity will undoubtedly leave a lasting impact on our academic and future career pursuits.