

We are thrilled to share the success of our recent educational program, X-PLORASI STEM 2023, organized by the Fuel Cell Institute, Universiti Kebangsaan Malaysia (SELFUEL, UKM) in collaboration with the Institute of Teacher Education Malay Women Campus (IPGK PM), Melaka. We had the opportunity to visit two schools, Sekolah Menengah Jenis Kebangsaan Notre Dame Convent (SMJKNDC) and Sekolah Menengah Kebangsaan Paya Rumput (SMKPR), and create lasting memories filled with joy and excitement. Our experience at these two schools taught us that learning is not confined to textbooks and classrooms alone; it extends beyond boundaries, fostering personal growth, and inspiring a love for lifelong learning.

Program Overview:

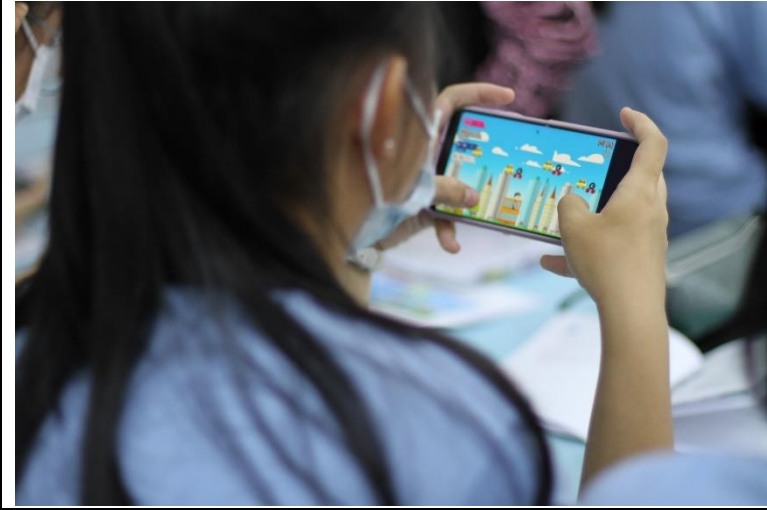
Over the course of one week, we embarked on a remarkable educational journey designed to foster growth, ignite curiosity, and empower the next generation of leaders. X-PLORASI STEM 2023 aimed to bridge the gap between traditional classroom learning and real-world applications by introducing students to low-carbon technology focusing on hydrogen fuel cell. In this program, we utilized our learning module, PENGENALAN KEPADA SEL FUEL (Introduction to Fuel Cell), which uses the principles of "Game-Based Learning" as a learning approach.

Empowering High School Students:

The heart and soul of our program were the talented and enthusiastic high school students who eagerly embraced the opportunity to expand their horizons. Through our interactive learning module, engaging discussions, and hands-on activities, they delved into a wide range of subjects to increase their awareness of low-carbon technology and knowledge about hydrogen fuel cell. The program also aims to attract students' interest in STEM fields and thus apply STEM knowledge in their daily lives. Their passion and eagerness to learn were truly awe-inspiring!



SMJK Notre Dame Convent students





SMK Paya Rumput students

🎓 Engaging Teachers:

The school's dedicated teachers played a pivotal role in creating a dynamic and engaging learning environment. They skilfully assisted us during the program and helped in kindling a thirst for knowledge among the students, empowering them to become lifelong learners.

💛 Collaborative Facilitators:

The success of our program would not have been possible without the invaluable contributions of our facilitators. These remarkable individuals acted as mentors, guiding and supporting both students and teachers throughout their educational journey. By fostering collaboration, promoting creative thinking, and providing a nurturing space for growth, our facilitators helped unlock the participants' full potential.



SELFUEL UKM chief facilitators and IPGK PM facilitators




🌟 Highlights and Impact:

The program's impact was truly remarkable, with participants experiencing numerous enlightening moments and personal growth. Here are some of the highlights:

- **Interactive sessions:** Participants participated in hands-on activities for each topic in the module and learned about low-carbon technologies focusing on hydrogen fuel cell in relation to STEM subjects. These immersive learning experiences nurtured creativity, and problem-solving abilities, and sparked a passion for discovery.
- **Collaborative Projects:** Students collaborated on exciting projects, fostering teamwork, leadership skills, and effective communication. The collective synergy resulted in outstanding outcomes that showcased their ingenuity and their ability to address real-world challenges.

	<p>SMJK Notre Dame Convent</p> <p>Principal Mdm. Kek Chin Yin</p>
	<p>SMK Paya Rumput</p> <p>Principal's Representative (Co-curricular Senior Assistant) Mdm. Fairudzah binti Ahmad</p>
	<p>Institute of Teacher Education Malay Women Campus (IPGK PM), Melaka</p> <p>Program Coordinator Mdm. Nur Fadhilah binti Abdul Jalil</p>

 Expressing Gratitude:

We extend our heartfelt gratitude to our collaborators and participants for their unwavering support and commitment to X-PLORASI STEM 2023. The authors would like to acknowledge that this program was funded by Universiti Kebangsaan Malaysia under the Geran Translasi UKM (UKM-

TR2022-11) in collaboration with IPGK PM. Together, we have ignited a love for learning, empowered young minds, and laid the foundation for a brighter future.

🗣️ Join Our Journey:

The success of this educational program has left an indelible mark on our hearts and reaffirmed our belief in the transformative power of education. We invite you to join us on this journey of knowledge, innovation, and growth. Stay tuned for more exciting initiatives and opportunities to learn, create, and inspire!



SMJK Notre Dame Convent
13 June 2023



SMK Paya Rumput
15 June 2023



Institute of Teacher Education
Malay Women Campus (IPGK
PM), Melaka
12-16 June 2023

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UKM-TR2022-11 Project Leader

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