



اَبُو سَيِّدِي تَكُونُ لَو كُنْ اَنَا
UNIVERSITI
TEKNOLOGI
MARA



PROCEEDINGS OF JOHOR INTERNATIONAL INNOVATION INVENTION COMPETITION AND SYMPOSIUM 2024 (JIIICaS 2024)



*“Flourish and Nurturing Sustainable
Innovation for a Prosperous Nation”*

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e ISBN: 978-967-0033-25-9



**Published in Malaysia by
Universiti Teknologi MARA Cawangan Johor
Kampus Pasir Gudang
81750 Masai**



Preface

In the name of Allah, the Almighty who gives us the enlightenment, the truth, the knowledge and with regards to Prophet Muhammad (peace be upon him) for guiding us to the straight path. We thank to Allah for giving us guidance and strength to write this e-book.

This e-book compiles the extended abstracts that submitted to Johor International Innovation Invention Competition and Symposium 2024 (JIIICaS2024), where JIIICaS2024 is a virtual platform for all creative minds to share and present their invention and innovation. Each abstract gives a brief background on the innovation or project.

We hope that this e-book will help the readers to get to know the innovation done by the students and get some ideas to develop future innovation products.

Foreword Rector



Assalamualaikum warahmatullahi Wabarakatuh,
Salam Sejahtera, Salam Malaysia MADANI and
Salam UiTM Dihatiku.

In the name of Allah, the Most Gracious, the Most
Merciful.

It is a great honor to welcome you to the Johor
International Innovation, Invention, Competition, and
Symposium 2024 (JIIICaS 2024). This event

connects various disciplines, focusing on education and engaging educators,
students, researchers, and innovators from all walks of life.

Innovation is not just about ideas; it demands perseverance, creativity, and
determination to turn those ideas into reality. The remarkable projects
showcased today highlight the dedication and spirit of all participants.
Initiatives like this not only explore new technologies but also cultivate skills
and leadership among our youth. At Universiti Teknologi MARA (UiTM) Johor
Branch, we are fully committed to fostering a dynamic culture of innovation,
promoting the commercialization of new products, and encouraging
meaningful collaborations with industry and society.

As we celebrate this event, I would like to extend my heartfelt gratitude to all
sponsors, judges, the College of Computing, Informatics and Mathematics,
UiTM Pasir Gudang Campus as the event organizer, as well as to the
researchers and participants for their hard work in making this event a
success. Let us continue striving for innovation and excellence. May the
ideas presented today inspire us and lay the groundwork for future
achievements.

Thank you.

Associate Professor Dr. Saunah Zainon
Rector
Universiti Teknologi MARA (UiTM)
Johor Branch

(A-SS041) TRANSFORMING EDUCATION THROUGH POSITIVE EMOTIVE LANGUAGE AND TECHNOLOGY

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ABSTRACT

Traditional teaching approaches often overlook the importance of emotional support and positive reinforcement, leading to disengagement and diminished learning outcomes. To address this, our innovation integrates Positive Emotive Language (PEL) principles with technology, offering educators a comprehensive module to cultivate supportive learning environments. By equipping educators with practical strategies and diverse technology tools, such as multimedia presentations and mindfulness apps, our innovation enhances classroom.

Keywords: Positive Emotive Language (PEL), Technology Integration, Classroom Engagement, Educational Innovation, Sociology-emotional Development

1.0 INTRODUCTION

Engagement and motivation are pivotal for effective learning experiences, yet classrooms often struggle to cultivate environments conducive to these factors (Reeve, 2013). Recognizing this challenge, our innovation proposes a transformative approach to education through the integration of Positive Emotive Language (PEL) and technology. The motivation behind our product lies in addressing the need for fostering supportive classroom cultures that enhance student well-being, motivation, and emotionalism development (Eccles & Wang, 2016).

2.0 OBJECTIVE

The objective of our innovation is twofold: first, to equip educators with the knowledge and skills to integrate PEL into their teaching practices, and second, to leverage technology to amplify the impact of PEL on student engagement and well-being (Guo et al., 2019).

3.0 METHODOLOGY

Our product offers a comprehensive module designed to empower educators with practical strategies and tools for incorporating PEL into classroom communication. The module begins with an introduction to PEL, outlining its principles, theoretical

framework, and significance in education (Meyer et al., 2020). Strategies for integrating PEL into classroom communication are explored, emphasizing language choice, feedback mechanisms, rapport building, and fostering gratitude. The module further delves into the utilization of technology tools across various categories, including multimedia presentations, interactive whiteboard applications, communication platforms, gamification systems, storytelling platforms, mindfulness applications, positive reinforcement platforms, AR/VR experiences, feedback and assessment tools, and social media platforms. Practical applications and classroom implementation are emphasized through case studies, collaborative brainstorming sessions, role-playing exercises, and reflective practices.

4.0 RESULTS

The integration of PEL and technology offers numerous advantages and impacts. By fostering a positive classroom environment, our innovation promotes student engagement, motivation, and socio-emotional development (Liew et al., 2018). The novelty of our approach lies in the seamless integration of PEL principles with diverse technology tools, offering educators a comprehensive toolkit for creating inclusive and supportive learning environments. Through real-life examples and practical applications, our innovation empowers educators to transform their teaching practices and enhance student outcomes.

5.0 CONCLUSION

In conclusion, our innovation presents a pioneering approach to education, combining the power of Positive Emotive Language with cutting-edge technology tools. By equipping educators with the knowledge, skills, and resources to integrate PEL into their teaching practices, we aim to foster a culture of sustainable innovation and excellence in education, ultimately enhancing student engagement, motivation, and well-being (Kupersmidt et al., 2021).

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