



E-PROCEEDINGS

INTERNATIONAL TINKER INNOVATION & ENTREPRENEURSHIP CHALLENGE (i-TIEC 2025)

"Fostering a Culture of Innovation and Entrepreneurial Excellence"



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23 January 2025
PTDI, UiTM Cawangan Johor
Kampus Pasir Gudang

ORGANIZED BY:

Electrical Engineering Studies, College of Engineering
Universiti Teknologi MARA (UiTM) Cawangan Johor
Kampus Pasir Gudang
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PREFACE

It is with great pleasure that we present the e-proceedings of International Tinker Innovation & Entrepreneurship Challenge (i-TIEC 2025), which compiles the extended abstracts submitted to the International Tinker Innovation & Entrepreneurship Challenge (i-TIEC 2025), held on 23 January 2025 at **PTDI, Universiti Teknologi MARA (UiTM) Cawangan Johor, Kampus Pasir Gudang**. This publication serves as a valuable resource, showcasing the intellectual contributions on the invention and innovation among students, academics, researchers, and professionals.

The International Tinker Innovation & Entrepreneurship Challenge (i-TIEC 2025), organized under the theme "Fostering a Culture of Innovation and Entrepreneurial Excellence," is designed to inspire participants at various academic levels, from secondary students to higher education students and professionals. The competition emphasizes both innovation and entrepreneurship, encouraging the development of product prototypes that address real-world problems and have clear commercialization potential. By focusing on technological and social innovations, i-TIEC 2025 highlights the importance of turning creative ideas into viable, market-ready solutions that can benefit users and society. The extended abstracts in this e-proceedings book showcase the diverse perspectives and depth of research presented during the event, reflecting the strong entrepreneurial element at its core.

We extend our sincere gratitude to the contributors for their dedication in sharing their innovation and the organizing committee for their hard work in ensuring the success of the event and this publication. We also appreciate the support of our collaborators; Mass Rapid Transit Corporation Sdn. Bhd. (MRT Corp), Universitas Labuhanbatu, Indonesia (ULB), Universitas Riau Kepulauan, Indonesia (UNRIKA) and IEEE Young Professionals Malaysia, whose contributions have been instrumental in making this event and publication possible.

We hope that this e-proceedings book will serve as a valuable reference for researchers, educators, and practitioners, inspiring further studies and collaborations in both innovation and entrepreneurship. May the knowledge shared here continue to spark new ideas and market-ready solutions, advancing our collective expertise and fostering the growth of entrepreneurial ventures.

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B-SS074: TECHPRENEUR: THE PADLET EDITION

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ABSTRACT

TechPreneur: The Padlet Edition is an interactive learning tool that helps students excel in their entrepreneurship classes. It is an engaging and fun way for students to learn about entrepreneurship and technology. This edition is basically to help students manage their 1-semester class to keep on track with what they need to understand, learn, and experience. This padlet will also help the students to understand and learn how to score the subject. It also teaches students how to think critically and solve problems and generates an early interest in business. What has been used by the lecturers will also help the student as an educational tool. It also would be a great way to teach entrepreneurship and technology simultaneously as ideas to make it more fun and interactive. The padlet is used as an additional tool to help students to understand, be user-friendly, and have fun utilizing tools. It also promotes active learning and critical thinking, allowing for a deeper understanding of the subject. The tool is designed to help the students connect with the economics better, sparking more interest in the subject and building important skills for those who want to be entrepreneurs in the future.

Keywords: TechPreneur, Technology, Entrepreneurship, Padlet, online.

1. Product Description

TechPreneur: The Padlet Edition is a platform that is a cool and interactive tool for students to dive into. The platform will help the students to have a better understanding of this subject. The developed product is a fully functional learning edition that only uses the real technology and entrepreneurship system. This system leverages the 14-week class data from the start to the end of the semester's discussion. The system helps the class lecturer and students to disseminate any unforeseen circumstances during the 14-week class. This model has helped not only the lecturers but also the students to understand better and not miss out on any work given by their lecturer.

2. The Flowchart

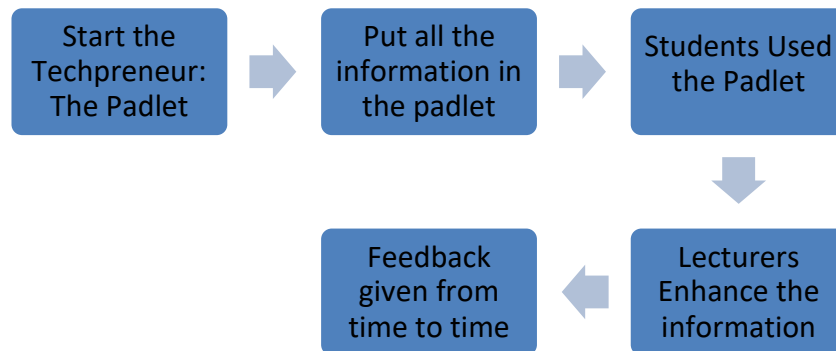


Figure 1. The flowchart of the TechPreneur: The Padlet Edition.

The product:

[Online Module](#)

Or

<https://padlet.com/suhan291/techpreneur-the-padlet-edition> uuwkoppmgquchpce

3. Novelty and uniqueness

The novelty and uniqueness of this Techpreneur: The Padlet Edition lies in its interactive and hands-on approach to teaching complex concepts. Unlike traditional learning methods, this edition allows students to understand more, especially real-world scenarios. It is unique in that it teaches how technology and entrepreneurship are interconnected, helping students understand the broader impact. This edition also offers a chance for students to simulate policy decisions and observe their effects on the economy, enhancing their learning experience.

4. Benefit to mankind

Techpreneur: The Padlet Edition benefits mankind by improving technology and entrepreneurship literacy among students, making complex concepts easier to understand. It helps students develop critical thinking and decision-making skills, which are valuable for future policymakers, entrepreneurs, and business leaders. This padlet will help prepare students to make more informed decisions that can positively impact the economy. Additionally, it fosters an interest in entrepreneurship and provides a hands-on way to understand how technology and entrepreneurship influence growth, benefiting individuals and society.

5. Innovation and Entrepreneurial Impact

Techpreneur: The Padlet Edition can positively influence innovation and entrepreneurship by helping students develop essential skills. It teaches decision-making, problem-solving, and risk management, which are crucial for entrepreneurs. The online class will help to

encourage creative problem-solving, as students devise strategies to manage various changes as well as foster innovative thinking. It also sparks early interest in entrepreneurship by demonstrating how to adapt to relevant shifts. By identifying opportunities in technology, students gain insight into creating solutions or new business strategies. This product will help interactive learning by building awareness and teamwork skills, providing a platform for inspiring future entrepreneurs and innovators.

6. Potential commercialization

Techpreneur: The Padlet Edition has strong commercialization potential. It can be used by universities as an interactive tool for teaching technology and entrepreneurship. It can also be used for online learning platforms for students worldwide. Additionally, it can also be developed into a mobile application for self-paced learning. The padlet edition can also be used in corporate training to help employees understand more about technology and entrepreneurship. It also has the potential for financial literacy programs run by governments or NGOs, offering a fun way to educate the public on technology and entrepreneurship.

7. Acknowledgment

I would like to express my sincere gratitude to everyone who has supported and contributed to this project. Special thanks to all the students who used this padlet for their study. Without their usage, this version would not have been possible.

8. Authors' Biography



Dr. Suhana Mohamed is a Senior Lecturer at UiTM, specializing in Finance. Dr. Suhana has twenty-five (25) years of experience in academia and industry, where she has pioneered several works relating to Finance and Education. Dr. Suhana has been actively involved in investment research, mainly real estate finance, where she concentrated on real estate investment research. Recognizing her outstanding contributions to research and community services. Dr Suhana received several prestigious awards. She devoted her passion and life to knowledge transfer, and supporting many exciting projects for UiTM.



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Razieman Mohd Yusoff, an academician at Universiti Teknologi MARA (UiTM) specializing in Logistics Operations and Managing Transport Organizations, has extensive experience in Malaysia's public transportation sector through roles with the Suruhanjaya Pengangkutan Awam Darat (SPAD) and Agensi Pengangkutan Awam Darat (APAD). His research focuses on transportation planning, policy, optimization, and sustainability, integrating practical insights to address real-world challenges. A Chartered Member of the Chartered Institute of Logistics and Transport (CILT), Razieman actively contributes to global standards in logistics and transport. His expertise bridges academia and industry, aiming to advance efficient, sustainable solutions for Malaysia's transportation system development.



Elyn Mohd Ridzwan is an experienced educator with a strong background in teaching General Studies and Islamic Banking from Politeknik METrO Johor Bahru. She has dedicated nearly 16 years to Technical and Vocational Education and Training (TVET), gaining valuable expertise. Passionate about innovation, she actively contributes to field research and the development of innovative solutions in Social Science. Additionally, she is deeply involved in creating teaching and learning e-books to enhance education, particularly for polytechnic students. Her dedication reflects her mission to inspire and support the next generation of learners.