

# ESTEEM Academic Journal

**VOLUME 16, DECEMBER 2020**  
Universiti Teknologi MARA, Cawangan Pulau Pinang

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## FOREWORD

Welcome to the 16<sup>th</sup> Volume of ESTEEM Academic Journal for December 2020 issue: an online peer-referred academic journal by Universiti Teknologi MARA, Cawangan Pulau Pinang, which focusing on innovation in science and technology that covers areas and disciplines of Engineering, Computer and Information Sciences, Health and Medical Sciences, Cognitive and Behavioral Sciences, Applied Sciences and Application in Mathematics and Statistics.

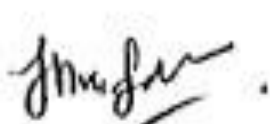


It is a pleasure to announce that ESTEEM Academic Journal has been successfully indexed in Asean Citation Index and MyCite, a significant move, which will increase the chance for this journal to be indexed in SCOPUS. ESTEEM Academic Journal has also been nominated as one of the top 3 of the best science and technology journals in Universiti Teknologi MARA. Starting year of 2021, the publication issue will be moved to March and August for every year.

In this 2020, the world has been impacted on the Covid-19 issue that has changed our daily life to a new normal. Although Covid-19 issue has still affected the world not only on academician and research area, ESTEEM Academic Journal have received tremendous supports and responses from authors internationally and locally from various backgrounds in science and technology areas. Nine articles from the field of innovation in science and technology are successfully published after undergoing screening and reviewing processes that involved international and local reviewers. It is our aim to ensure that all the published articles are of the highest quality.

It is an honour to have a form of partnership and assistance from panel of international advisors and editors for this issue. Thus, I would like to take this opportunity to thank many people who have worked together for the issue to be released. In particular, my greatest thanks are due to our Rector, Professor Ts. Dr Salmiah Kasalong and the Deputy Rector of Research, Industry, Community and Alumni Network, Associate Professor Chem. Dr. Nor Aziyah binti Bakhari for their unfailing support and advice towards the successful publication of this issue. My deepest gratitude also goes to the editorial team of ESTEEM Academic Journal December 2020; Dr Syarifah Adilah, Dr Ainorkhilah, Puan Suzana, Dr Mah Boon Yih, Pn Isma Noornisa, Dr Salina and Dr Vicinisvarri Inderan for their support, commitment and expertise in making this issue published on time.

My greatest appreciation also goes to the panel of reviewers for their persevering and attentive efforts in reviewing the articles voluntarily by giving constructive and invaluable comments to ensure the quality of the articles. Finally, my gratitude goes out to the authors who have submitted articles to ESTEEM Academic Journal, for their trust in us in publishing their research works. Last but not least, as this year is ending, may the New Year bring tremendous joy and success for all of us. Happy New Year 2021! Dr.



**Ir Dr Nor Salwa Damanhuri**  
Chief Editor  
ESTEEM Academic Journal

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