About this Special Issue

This special issue of the Mindanao Journal of Science and Technology (MJST) is the result of a collaborative effort involving the authors, the University of Science and Technology of Southern Philippines (USTP), and Universitas Andalas. It features carefully selected papers in the fields of science, technology, and engineering, presented at the International Conference on Science, Technology, and Innovation (ICSTI) held on August 21–22, 2025.

From the 19 papers pre-selected by Universitas Andalas and submitted to MJST following the conference, only 14 successfully passed the rigorous double-blind peer-review and editorial processes, earning their place in this special issue.

The studies included in this issue, contributed by researchers from different academic institutions and organizations, highlight the depth and ingenuity of research across diverse disciplines. These works explore the chemical profiling and enzyme-inhibitory activity of plant-derived compounds as potential agents against diabetes, the analysis of satellite rainfall data and projected rainfall patterns under climate change, and the synthesis of advanced nanocomposite materials. They also examine environmental sustainability through sustainability indicators in higher education and a life cycle assessment of solid waste management, as well as renewable energy microgrid design and sustainable product design, among many others. Collectively, these studies demonstrate a steadfast commitment to tackling both global and local challenges through research and innovation.

On behalf of the MJST Editorial Board and the Publisher (USTP), I wish to recognize the Director for the Journal Publication, Dr. Angelo Mark P. Walag, and the Associate Editors of MJST, Mr. Nesteve John B. Agosto, Engr. Christine Marie J. Madrid, Dr. Hearty N. Maglanque, Engr. Kristine Mae P. Dunque, as well as the Technical Staff, Ms. Luvelle Jane T. Alo and Ms. Tiffany Diane Abrio, for their meticulous efforts in reviewing the papers. I also extend my gratitude to the organizers of ICSTI at Universitas Andalas, led by Prof. Dr. techn. Marzuki, Chair of the Institute for Research and Community Engagement, and Dr. Friardi Ismed, Chief Editor of ICSTI, for forging this partnership with MJST, the authors for selecting MJST as the publication venue for their work, and the esteemed reviewers for dedicating their time and expertise to ensuring the quality of the published papers.

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