

Message from the Chief Editor: JTET June 2025

Dear Readers,

The June 2025 issue presents a collection of 18 diverse manuscripts that reflect current issues in Technical and Vocational Education and Training (TVET), contributed by authors from various countries. This issue is thematically organized and assisted by the **Generative AI**, to provide a clearer narrative, ranging from education to actual applications in the workforce. To a more embracing the new inevitable technology, this message also drafted with the assistant of the Generative AI, and improved by the editor.

In strengthening TVET in schools and colleges, Nisa Aulia Saputra and colleagues from Indonesia and Japan investigate the level of technology literacy among vocational students learning CAD. The research from Ahmad Ikhwanuddin Haji Ali from Brunei highlight how design-build-test projects positively impact students' academic motivation. Also, in the study from Malaysia, Suhaizal Hashim delves into how learning styles and personality types influence the success of special education students in TVET. While, in Nik Azlina Nik Ahmad and the team introduce the use of Kansei Engineering to design emotionally engaging metaverse library interfaces for technical university students. The last manuscripts in this theme is a study by Nik Norlaili Jamilah Nik Othman and the team from Malaysia, focusing in validating a job characteristic model tailored for graduates with learning disabilities in the food service industry.

In the next theme, highlighting the advancement of TVET curriculum and teaching strategies, Nilmar I. Moreno from the Philippines offer insights into curriculum development for vocational teacher education. Also, Nzube Cyril Muoghalu from Nigeria and Adnan Bin Ahmad from Malaysia explore the technological gaps in aligning motor vehicle mechanic programs with modern industry needs. The study from Ecuador, Rolando Ismael Yépez, the learning processes model using power law in the operation of textile garment machinery. The next paper is from Mohd Hafizul Ismail and his Malaysian-Korean researchers examine how self-efficacy influences the continuity of digital learning adoption among learners, and lastly a study from Malaysia by Shahd Ashraf Abdelhamed explores the integration of AI tools to enhance English communication skills in vocational higher education.

The next theme is about teacher competency and institutional readiness, a research team from Indonesia analyse the technical competency needs of TVET teachers in response to Industry 4.0. The next study from the Philippines, Arthur Dela Peña presents lessons from addressing competency gaps in aviation maintenance education. While Solomon Pharamela and Asheena Singh-Pillay from South Africa investigate the TVET college lecturers perceive and 21st-century skills in their teaching practices, and the paper from Vietnam evaluates the implementation and impact of ABET-compliant of the training programs. The next study from Muhammad Nurtanto explore the role of psychological well-being, personality traits, and work commitment in shaping vocational teacher performance.

The last theme highlights research that aligns with workforce development and industry needs. Researcher from Indonesia proposes a Geographic Information System (GIS)-based model to align vocational high schools with industrial demands. Additionally, manuscript from South Africa examine the factors influencing the workforce readiness of electrical engineering graduates, and paper from Feri Ferdian completing this theme by assessing the contribution of certified internships toward career development in the hotel industry.

This issue presents a diverse content and context that reflects to the dynamic development of TVET. On behalf of the editorial board, I extend my sincere gratitude to all contributing authors and reviewers. We hope readers enjoy reading this issue!

Sincerely,

Associate Professor Ts Dr. Dr Alias Masek

Associate Professor Ts Dr Aini Nazura Binti Paimin

Editor-in-Chief, Journal of Technical Education and Training