

Journal of Technology Education and Applied Sciences

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EDITORIAL

Knowledge that Transforms

The publication of the inaugural issue of the **Journal of Technology Education and Applied Sciences (JTEAS)** marks a defining milestone in the intellectual journey of the **University of Skills Training and Entrepreneurial Development (USTED), Ghana**. Beyond inaugurating a new scholarly publication, this issue establishes a forum for rigorous inquiry, interdisciplinary dialogue, and transformative research that seeks not merely to explain the world, but to improve it.

Universities are ultimately judged not only by the graduates they produce but by the knowledge they generate and the societal impact of that knowledge. In an era defined by the Fourth Industrial Revolution, artificial intelligence, climate change, digital transformation, and evolving workforce demands, scholarship must move beyond disciplinary boundaries to provide innovative solutions to complex global challenges. JTEAS is founded on this conviction. It embraces the philosophy that excellent research should be intellectually rigorous, methodologically sound, socially responsive, and practically consequential.

The contributions assembled in this inaugural issue exemplify this vision. They collectively demonstrate that technology education and the applied sciences are not isolated domains of academic enquiry but powerful instruments for sustainable development, industrial innovation, environmental stewardship, and human advancement. From strengthening experiential learning through industrial attachment, to advancing sustainable material preservation, improving renewable energy forecasting through artificial intelligence, and exploring public perceptions of generative AI using machine learning, the articles reflect a common commitment to research that bridges theory and practice while responding to contemporary societal needs.

The diversity of these studies also illustrates the intellectual identity that JTEAS seeks to cultivate. We believe that the most significant scientific breakthroughs increasingly emerge at the intersections of disciplines—where education informs technology, engineering advances sustainability, data science shapes public policy, and innovation creates opportunities for inclusive development. This journal therefore welcomes scholarship that transcends traditional academic silos and contributes meaningfully to the advancement of knowledge and society.

As an international, peer-reviewed, open-access journal, JTEAS is committed to the highest standards of scholarly excellence, editorial integrity, and research ethics. Our aspiration extends beyond publication; we seek to become a trusted platform where researchers, educators, innovators, industry leaders, and policymakers converge to exchange ideas that influence policy, inspire innovation, and accelerate sustainable development across Africa and the wider global community. We envision JTEAS evolving into one of Africa's leading scholarly journals in technology education and applied sciences, recognised for publishing research that is globally relevant while remaining deeply responsive to local realities.

The Editorial Board expresses its sincere appreciation to the authors whose pioneering work forms the foundation of this inaugural issue, the reviewers whose rigorous evaluations uphold the quality of the journal, and the leadership of USTED for their vision and unwavering support.

Editor-in-Chief

Prof Isaac Boateng

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