

Miscellany

Scope of the *Journal of Technology Education*

The *Journal of Technology Education (JTE)* provides an international forum for scholarship on topics directly related to technology and engineering education, inclusive of the practices and designerly ways of knowing inherent to technological and engineering literacy. Manuscripts should focus on technology and engineering education research, philosophy, theory, or practice. In addition, the Journal publishes book reviews, editorials, guest articles, comprehensive literature reviews, and reactions to previously published articles.

Technology and Engineering Education (TEE) is a curricular program implemented at the PK-12 school levels for all students and at post-secondary institutions for those students interested in teaching or obtaining employment in technology or engineering fields. In some countries, states, and/or provinces TEE is a stand-alone program and in others it is part of broader programs in career and technical education (CTE) or vocational education and training (VET). At the PK-12 grade levels, the aim of TEE is for students to develop technological and engineering literacy, regardless of career aspirations. TEE students follow a minds-on/hands-on experiential approach to learning technology and engineering concepts. Within this approach students engage in the design of technological/engineering solutions while working under constraints and utilizing optimization and predictive analysis. Understanding that technology, the environment, the economy, and social systems are all interconnected is essential to being both informed citizens and knowledgeable users and designers of technology.

TEE curriculum is primarily taught at the PK-12 level by certified technology and engineering educators using design based learning to intentionally teach the content and practices of science, technology, engineering, and mathematics (STEM) education. At the PK-5 grade levels, technology and engineering concepts and practices are often integrated into existing coursework, such as language arts, mathematics, science, and social studies. At the 6-12 grade levels, TEE programs typically consist of courses in (a) information and communication technologies, (b) technology and engineering design, (c) the built environment, (d) manufacturing, (e) energy, power, transportation, and logistics, (f) medical, agricultural, and biotechnologies, and (g) computation, automation, artificial intelligence, and robotics. Within these courses, students learn to apply core principles and practices of technology and engineering while refining their troubleshooting, research and development, design, and problem-solving skills. As such, the focus of TEE at the PK-12 levels is not on the

preparation of future STEM majors/students, but on providing an education that prepares all students to be technologically/engineering literate.

Editorial/Review Process

Manuscripts that appear in the Articles section have been subjected to a blind review by three or more members of the Editorial Review Board or other specialists in the field. This process generally takes two to three months, at which time authors are notified of the status of their manuscripts. Book reviews, editorials, and reactions are reviewed by the Editor.

Manuscript Submission Guidelines

The manuscript submission process is facilitated by the University Libraries of Virginia Polytechnic Institute and State University. Authors should register, then submit manuscripts through the portal at <https://jte-journal.org>. Questions for the editors should be sent to: Editor, *Journal of Technology Education* at jte@iteea.org.

1. All manuscripts must be double-spaced Microsoft Word documents.
2. Manuscripts must adhere to the guidelines published in the *Publication Manual of the American Psychological Association* (7th Edition), except that tables and figures should be embedded within the text rather than at the end of the document.
3. Figures and tables should be optimized for portrayal within an area measuring 4.5" wide by 6.75" tall on a black-and-white page. All figures and tables must fit and be legible within these size requirements without sacrificing legibility. Tables, line drawings, and graphs must be editable with Microsoft or Adobe products and in vector rather than raster format when possible. Shading should not be used as a background for illustrations or graphs and within bar graphs; if needed, fill patterns consisting of lines should be used. A high-resolution file for each figure should also be submitted with the manuscript. These should have a resolution of at least 300 dpi (600 dpi or above preferred) and be in JPG, TIFF, GIF, or PNG format.
4. Research manuscripts should generally be 22,000 to 40,000 characters in length, including spaces. They should include an abstract of up to 250 words and four to six key terms. Book reviews, editorials, and reactions should be approximately 6,000 to 12,000 characters in length.
5. Authors for whom English is not the primary language must enlist a native English editor for the manuscript prior to submission. The names and email addresses of the authors and the English editor must be identified on the title page of the manuscript.

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