## INDUSTRIAL TECHNICAL EDUCATION JOURNAL (ITEJ)

Official Journal of the Department of Industrial Technical Education,
Faculty of Vocational and Technical Education
University of Nigeria, Nsukka

VOLUME 1, NO 1 MAY, 2019

# INDUSTRIAL TECHNICAL EDUCATION JOURNAL

Official Journal of the Department of Industrial Technical Education,
Faculty of Vocational and Technical Education
University of Nigeria, Nsukka

Editor—in-Chief SIR, PROFESSOR EMERITUS S. C. O. A. EZEJI Department of Industrial Technical Education, University of Nigeria, Nsukka

> VOLUME 1, NO 1 MAY, 2019

#### EDITORIAL BOARD

#### **Editor in Chief**

#### Sir, Professor Emeritus S.C.O.A. Ezeji

Department of Industrial Technical Education, University of Nigeria, Nsukka

#### **Co-Editor in Chief**

#### Professor E. O. Anaele

Department of Industrial Technical Education, University of Nigeria, Nsukka

#### **Editor**

#### Dr. J. A. Bakare

Department of Industrial Technical Education, University of Nigeria, Nsukka

#### **Consulting Editors**

#### Prof. E. O. Ede

Department of Industrial Technical Education, University of Nigeria, Nsukka

#### Prof. E. C. Osinem

Department of Agricultural Education, University of Nigeria, Nsukka

#### Prof. K. H. Bulama

Department of vocational and Technical Education, Moddibo Adama University of Technology, Yola

#### Prof. K. R. E. Okoye

Department of Vocational Education, Nnamdi Azikiwe University, Awka

#### Prof. S. I. Akinseinde

Department of Vocational and Technical Education, Delta State University, Abraka

#### Prof. E. J. Ohize

Department of Industrial Technology Education, Federal University of Technology, Minna

#### Prof. J. D. Enemali

Department of Vocational and Technical Education, Abubakar Tafawa Balewa University, Bauchi

### Prof. G. A. Akpan

Department of Vocational and Technical Education, University of Uyo, Akwa Ibom State

#### Dr. T. C. Ogbuanya

Department of Industrial Technical Education, University of Nigeria, Nsukka

#### Dr. I. B. Ohanu

Department of Industrial Technical Education, University of Nigeria, Nsukka

**Dr. H. O. Omeje**Department of Industrial Technical Education,
University of Nigeria, Nsukka

#### TABLE OF CONTENTS

- Effects of kolb's experiential learning model and gardner's multiple intelligence learning model on students' critical thinking in electrical installation and maintenance work Sani, Salihu Imam Ph.D & E.A.O. Anaele, Ph.D
- Development of fabrication and welding training contents for craftsmen Yisa Mukaila Abiodun, Ph.D & Obe Pauline Ijeoma
- 3. Effects of computer assisted instructional technique on students' achievement in entrepreneurship studies in Bayelsa State, Nigeria **Igbongidi Paul Binaebi, Ph.D** 24
- 4. Strategies for promoting effective utilisation of microwave ovens by homemakers in Enugu State-- Jimoh Bakare, Ph.D & H. O. Omeje, Ph.D 33
- 5. Influence of advertisement and branding variables on the demand for plastic building products by real estate developers in Bayelsa State--- Paul Binaebi Igbongidi, Ph.D 43
- Effective workshop management techniques needed for improving the teaching of electrical technology in technical colleges in Benue State--- T.C. Ogbuanya, Ph.D & Amenger, Maashin
- 7. Effects of instructional scaffolding on students' performance in technical drawing in technical colleges -- Jane Itohan Oviawe, Ph.D & E.A.O. Anaele, Ph.D 65
- 8. Relative effectiveness of reda and rubult's problem solving models on metal work students' academic achievement, interest and retention in technical colleges in Enugu State, Nigeria -- Samson Ikenna Nwaodo, Ph.D & George Nwachukwu Ogbonna, Ph.D 71
- 9. Reducing ergonomic hazards and challenges in the workplaces of electrical installation craftsmen in Enugu State T. C Ogbuanya, Ph.D & Ugwoke Chinyere Kate 80
- 10. Stakeholders' perception of partnership functions in the management of technical education programmes of colleges of education in Lagos State Oriola Olatunji Fadiaro, Ph.D 94
- 11. Drainage maintenance skills required by building technology graduates of polytechnics in Lagos State **Adesuvi Abiodun H.** 102
- 12. Pedagogical practice improvement needs of electrical installation teachers for effective teaching in technical colleges in Ogun State, Nigeria Lamidi, Tajudeen Oyeniyi & Efuwape Bamidele Michael 109
- Supervisors' perception of core contents in anti-lock braking system of modern vehicles for re-training of motor vehicle mechanic work graduates- Jimoh Bakare, Ph.D, Mole Lilian & Obe Pauline Ijeoma
   121
- Strategies for enhancing effectiveness of students industrial work experience scheme towards developing work skills among polytechnics students in South West Nigeria Olabiyi Oladiran Stephen, Ph.D & Ipinlaye Akinseyi
   129

- Development and validation of instrument for assessing practical skills in metalwork in technical colleges for entrepreneurship development George Nwachukwu Ogbonna, Ph.D
   S. I. Nwaodo, Ph.D
- 16. Blended instruction skills needs of fabrication and welding craft practice teachers in technical colleges for effective teaching in Lagos and Ogun States Shittu, Aliyu Rotimi 148
- 17. Adult farmers' training needs for improving cassava flour processing and packaging in Imo State- **Ubah Georgiana Ngozi**, **Ph.D & Oketoobo Emmanuel Akintunde**, **Ph.D** 156
- 18. Workshop facilities for skill acquisition in electrical/electronic technology courses in technical colleges in Lagos State **Onyebuchi Emmanuel, Ph.D** 165
- 19. Core industry based competency required by woodwork craftsmen for effective performance in furniture and upholstery making industries in Kogi State **Jonathan Nuffi, Ph.D** 174
- 20. Development and validation practical tasks assessment instrument in basic electronics for quality assurance of senior secondary school leavers Umanah Raphael Anyiekan, Ph.D 183
- 21. Effective utilization of blended learning models for teaching and learning of home economics in secondary schools in Enugu State **Okwume**, **U. Georgina** 196
- 22. Improving maintenance practices in technical colleges for effective performance Bakare, Shola F., Ojo, Samson A. & Akegbejo, David A. 206
- 23. Assessment of facilities for improving instructional delivery of blocklaying and concreting programme in technical colleges in Ebonyi State- Hyginus Osita, Omeje, Ph.D, Okekpa, Anayo Alagba & Chukwu, Daniel Uchechukwu
   211
- 24. Strategies for actualizing the stipulated tvet goals by tvet teachers in nsukka local government area of Enugu State -- Chukwu, Daniel Uchenna & Idris Akwu 219
- 25. Workplace safety skills required of workshop personnel for effective management of technical and vocational education workshops in tertiary institutions in Enugu State, Nigeria Hyginus Osita Omeje, Ph.D & Godwin Keres Okoro Okereke, Ph.D
   230
- 26. Human and material resources management challenges as impediment for effective implementation of TVET programmes Ezugwu Cosmas I., Ani George A. & Ugwu, Friday I.
  238
- Potential improvement needs of electrical/electronics teachers for effective maintenance of measuring instruments in technical colleges in Northern, Nigeria Nungse, Nuhu I., Ugwoke, Chinyere K., Tongshuwal, John M. & Yekinni, Sunkanmi A.
- 28. Skill improvement needs of teachers of carpentry and joinery in technical colleges in Enugu
   State Asogwa Japel Onyekachi & Okanya Arinze
- 29. Skill needs in automobile for teaching emergingtechnologies in technical colleges in Benue State, Nigeria- Dem, Isaiah I., Athanson, I. H., Azeez Tairu Adebayo & Shittu, A. R. 260
- 30. Curbing the entrepreneurial challenges of nigerian youths for sustainable growth and development- Nungse, Nuhu I., Aderoju, John A., Kelechi Vianney C. I. and Abulokwe, A. C 270

- 31. Impact of foreign private investment on net export in Nigeria- Oshio Lucy Ediruke, Ph.D & Osaigbovo Louis O. 277
- 32. Proper maintenance of hand tools and equipment Impact on performance of building construction craftsmen in Lagos State Alabi Grace Olufunke & Nimmyel Gwakzing Danboyi
  284
- 33. Competencies in mobile phone maintenance for empowering out of school youths in Lagos State- Jimoh Bakare Ph.D & Surajudeen Rotimi Adelaja, Ph.D 295
- 34. Laboratory based skills in electrical/electronic technology programme for reducing technophobia among students in polytechnics- **Nwogu Prince Opurum**, **Ph.D** 313
- 35. Capacity building needs of techno-teachers in the use of computer and internet services for effective teaching of electrical/electronic courses in colleges of education in south South Nigeria-Prince Opurum, Ph.D 322

#### CALL FOR JOURNAL ARTICLES

Original and well written empirical studies are invited from researchers for publication in ITEJ. Authors are advised to adhere to the guidelines given below:

#### **Guidelines:**

- 1. All articles must be original, unpublished work of the author(s) and include an abstract of not more than 200 words. The keywords should not be more than five
- 2. The title page must contain the brief title, full names of the author(s) (first-name, middle-name and last-name), affiliation of author(s) (Department and institution), email and phone numbers
- 3. The articles must be written in English Language and must not exceed 15 pages, double-spaced on A4 size paper and font 12 of Times New Roman
- 4. The article should be arranged to include the following: title of the article, name of the author(s), abstract, introduction, method, results, discussion and references
- 5. Table and figure should be kept to a minimum, have short descriptive titles and be organized in Microsoft Word or Excel spreadsheet
- 6. Introduction to include development of the problem, its historical antecedents and statement of purpose of the investigation
- 7. Method: describe the procedure used to conduct the investigation
- 8. Result: Report of the analysis and findings
- 9. Discussion: summary, interpretation and implications of the results
- 10. References should be cited in the study and listed in alphabetical order at the end of the paper in the latest APA style (Sixth Edition)