



INFORMATION AND COMMUNICATION TECHNOLOGY ASSOCIATION OF ZIMBABWE (ICTAZ)

Promoting Information and Communication Technologies as tools and catalysts for Sustainable Development

Digital Literacy Workshop for STEM Educators in Zimbabwe

Concept Note

5 – 8 May, 2026
Mai Mugabe Group of Schools, Mazowe
Zimbabwe

Workshop Partners



Ministry of Information and Communication
Technology Association of Zimbabwe



Chinhoyi University of Technology
Academy of Teaching and Learning



UNIVERSITY OF ZIMBABWE

Faculty of Computer Engineering
Informatics and Communications

1. Background and Introduction

The rapid advancement of Information and Communication Technologies (ICTs) is transforming education, research, and socio-economic development worldwide. In Zimbabwe, the integration of digital technologies into education systems is essential for preparing learners and educators to participate effectively in the digital economy. Strengthening digital literacy among educators—particularly in Science, Technology, Engineering and Mathematics (STEM)—is therefore critical for promoting innovation, improving teaching and learning outcomes, and building a knowledge-based society.

The **Information and Communication Technology Association of Zimbabwe (ICTAZ)** is a national ICT think tank established to promote the development, adoption, and responsible use of ICTs as tools and catalysts for sustainable development. The organization works to empower society to master emerging technologies while also monitoring the impact of ICTs on society and the environment.

Through its **Strategic Plan 2024–2026**, ICTAZ prioritizes initiatives that expand digital access, promote digital literacy, and strengthen innovation and research in the ICT sector. The strategy recognizes that low levels of digital literacy and limited ICT skills remain key challenges affecting the uptake and effective use of digital technologies in Zimbabwe. Addressing these gaps through training and capacity-building programs is therefore central to achieving an inclusive digital economy and supporting national development goals.

In line with its mandate to promote ICT education, training, and capacity building, ICTAZ— together with its academic partners— meticulously planned the **Digital Literacy Workshop for STEM Educators in Zimbabwe**. The workshop aims to enhance the digital competencies of STEM educators by equipping them with practical skills, tools, and pedagogical approaches needed to effectively integrate emerging technologies into teaching, research, and innovation.

By empowering educators with digital skills and competencies, the initiative will contribute to bridging the digital divide, strengthening STEM education, and supporting Zimbabwe’s transition towards a digitally inclusive and knowledge-driven economy.

2. Objectives of the Workshop

The workshop aims to:

1. Enhance **digital literacy skills among STEM educators in Zimbabwe**.
 2. Equip educators with **modern digital tools and technologies** that improve teaching and learning.
 3. Promote the integration of **digital technologies in STEM education**.
 4. Support the implementation of **Education 5.0** through technology-enhanced pedagogy.
 5. Empower educators to develop students who are **responsible and innovative digital citizens**.
 6. Encourage collaboration and knowledge exchange among STEM educators, researchers, and technology experts.
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3. Target Participants

The workshop will target:

- STEM teachers from **secondary schools and colleges**
 - STEM lecturers from **universities and teacher training institutions**
 - Education policymakers and curriculum developers
 - ICT and education technology practitioners
 - Graduate students and researchers in STEM education
 - School Heads and College Principals
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4. Key Workshop Themes

The workshop will focus on the following thematic areas:

- Foundations of Digital Literacy for Educators
 - Digital Pedagogy for STEM Teaching
 - Artificial Intelligence and Emerging Technologies in Education
 - Data Literacy and Digital Research Tools
 - Online Learning Platforms and Learning Management Systems
 - Digital Citizenship, Ethics, and Cybersecurity in Education
 - Innovative Teaching Approaches for Education 5.0
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7. Expected Outcomes

The workshop is expected to achieve the following outcomes:

- Improved **digital competencies among STEM educators** in Zimbabwe.
 - Increased adoption of **technology-enabled teaching and learning strategies**.
 - Strengthened collaboration between **universities, educators, and ICT professionals**.
 - Development of **innovative teaching approaches aligned with Education 5.0**.
 - Creation of a **network of digitally empowered STEM educators**.
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8. Implementation Approach

The workshop will be delivered through:

- Interactive training sessions
 - Practical demonstrations of digital tools
 - Panel discussions with technology and education experts
 - Hands-on digital learning activities
 - Collaborative group work and knowledge sharing
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9. About Our Trainers

Our trainers are experienced in delivering digital literacy training and are accomplished practitioners and researchers. They bring in-depth knowledge and expertise in key focus areas, and are well-positioned to introduce innovative, practical approaches tailored to the needs of STEM educators in Zimbabwe.

10. Conclusion

As Zimbabwe moves toward a digitally driven knowledge economy, strengthening the digital competencies of educators is essential for preparing future generations. By equipping STEM educators with the knowledge and tools needed to integrate digital technologies into teaching and learning, the **Digital Literacy Workshop for STEM Educators** will contribute significantly to advancing **Education 5.0**, promoting innovation in education, and supporting national development goals.

WORKSHOP SECRETARIAT CONTACT DETAILS:

Workshop Chair

Mr. Hashah S. Maringe

CEO/President

Information and Communication Technology Association of Zimbabwe (ICTAZ)

Telephone: +263-22022 21332

Mobile: +263 773 365 751; +263 715688195

Email: maringehs@ictaz.org.zw, ictazhq@gmail.com

Organizing Secretary

Mr. M. Chikuruwo

Chief Operations Officer

Information and Communication Technology Association of Zimbabwe (ICTAZ)

Telephone: +263-22022 21332

Mobile: +263 717 303 131

Email: events@ictaz.org.zw, ictazhq@gmail.com

Training Coordinator

Prof. Maria Tsvere

Director

Academy of Teaching and Learning | Chinhoyi University of Technology

Telephone: +263-67-22203-5/29053-5/29450

Mobile: +263 773 365 751; +263 715688195

Email: maria.tsvere@gmail.com; mtsvere@cut.ac.zw
