

Dr. Josephine Ngunjiri is a Senior Lecturer at the Department of Biological Sciences, University of Embu. She holds a PhD degree in Tropical and Infectious Diseases from the University of Nairobi and a Master of Science in Applied Parasitology from the same institution. She is passionate about E-learning and distance education. She has been training in online facilitation at the University of Embu and is an E-learning champion for the department of Biological Sciences. She has pursued short courses through online learning with various institutions, including Aga Khan University, Stellenbosch University, Makerere University, Imperial College London, Ludwig Maximilians Universität München, University of Copenhagen, The Global Health Network and Oxford Maternal and Perinatal Health Institute and Johns Hopkins University. She believes in long-life learning enabled by these modes of learning. She is keen on STEM and has mentored girls at different levels of learning. Her research interests are Health Metrics, Maternal and Child Health, Neglected Tropical Diseases, Impact of Health on Education, Neglected Tropical Diseases, Climate Change and STEM innovations.

### **Topic: Artificial Intelligence (AI) Assessment tools in Science**

#### **Abstract**

Assessment is key in the learning process regardless of mode of content delivery. The purposes of assessment include student progression, certification, and feedback to the various stakeholders. Formative and summative assessments are used in both blended and e-learning. Formulation of high-quality scoring assessment tools is critical for the learning programs. Thus, a high-quality tool should inspire confidence in the learner, facilitator, and other stakeholders that they have acquired the knowledge and skills as per intended learning outcomes. The formulation of the questions should be guided by the course content and Bloom's taxonomy. Feedback during the assessment is very important, especially to the learners. Therefore, selection of an assessment tool should meet the expectations of the facilitator and the learners. In this lecture we are going to learn about the use of Turnitin as an Artificial Intelligence (AI) assessment tool. Turnitin has mainly been used to check the similarity index for the assignments and research work. However, Turnitin can be used for assessment of science-related content.